COKE OVEN INTERIM MEASURES
2019 PROGRESS REPORT

TRADEPOINT ATLANTIC
SPARROWS POINT, MARYLAND

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Revision 0 – January 31, 2020

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1.0 EXECUTIVE SUMMARY

1.1. CELL 1

The air sparge/soil vapor extraction (AS/SVE) system in the Former Benzol Processing Area (Cell 1) operated from January 4th through the end of the year, removing an estimated 1,326 pounds of hydrocarbons from the shallow groundwater zone, compared to the 1,076 pounds removed in 2018. The system experienced intermittent downtime throughout the year due to various maintenance issues. The concentrations of total volatile organic compounds (VOCs) in groundwater at two monitoring wells exhibited relatively stable trends in concentration during 2019. The total VOCs at the third monitoring well exhibited a spike in concentration by the June sampling event coincident with AS/SVE system downtime. This AS/SVE system should continue to be operated and monitored in accordance with current practices, with attempts to minimize system downtime.

1.2. CELL 2

Cell 2 includes an AS/SVE system for the shallow zone groundwater and a groundwater pump and treat (GWPT) system for the intermediate zone groundwater beneath the Former Coal Basin Area. The AS/SVE system was not operated in 2019 because components of the vapor extraction trench were submerged in water due to much higher than normal groundwater elevations due to historically high rainfall volumes in 2018 and early 2019. Since 2014, total VOC concentrations in shallow zone groundwater have remained relatively stable or slightly decreased. The GWPT system was consistently operated through 2019 resulting in the removal of approximately 5,800 pounds of VOCs from the Cell 2 intermediate groundwater zone, as compared to approximately 2,700 pounds removed during the previous year. By the end of 2019, total VOC concentrations in intermediate zone groundwater within the two wells with the highest total VOC concentrations decreased to approximately 32% or less of the peak concentrations that were observed in these wells in September/November 2015. Between September 2014 and September 2017, the total VOC concentrations at all other intermediate zone wells decreased and since 2017 have shown stable or decreasing trends.

1.3. CELL 3

The AS/SVE system for the shallow zone groundwater in Cell 3 operated for approximately 4,800 hours in 2019, removing an estimated 30 pounds of hydrocarbons, compared to 151 pounds removed in 2018 with comparable operating time. Total VOC concentrations in one of the four Cell 3 area groundwater monitoring wells have remained relatively stable during the past two years, while slightly decreasing trends have occurred in three of the four monitoring wells. Because hydrocarbon recovery has been below expectations, the AS/SVE program at Cell 3 will be evaluated to determine what modifications or alternative methods are warranted to attain remedial action objectives. Until that time, the current system will be operated with focused attention to select portions of the local VOC plume.

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 operated for the majority of the year, resulting in the removal of approximately 3,400 pounds of hydrocarbons from the Cell 5 area. This is consistent with the 3,762 pounds removed a year prior, with the majority of the mass being removed by the DNAPL recovery system. The DPE system will be evaluated to determine what modifications or alternative methods are warranted to attain remedial action objectives. Until then, the existing system will continue to be operated and monitored in accordance with current practices.

1.5. CELL 6

Cell 6 consists of a Light Non-Aqueous Phase Liquid (LNAPL) Multi-Phase Extraction (MPE) monitoring and recovery system at the Former Benzol Processing Area, which is supplemented by manual bailing and skimming of LNAPL. These remedial efforts removed approximately 16,000 pounds of LNAPL during 2019 (compared to approximately 11,000 pounds removed in 2018), with a cumulative removal amount of 162,872 pounds since LNAPL recovery was started in July 2010. In response to the reinjection wells showing a decreased ability to accept discharged groundwater from the MPE system by the end of 2019, new reinjection wells have been constructed to accommodate continued MPE operation. In addition, the MPE system will be evaluated to determine what modifications or alternative methods are warranted to attain remedial action objectives. LNAPL thickness should continue to be measured throughout 2020 and the data used to identify areas that may require more intense remedial efforts.

1.6. UPCOMING CORRECTIVE MEASURES STUDY

Testing and evaluation are proposed for interim measures (IMs) in all cells (1, 2, 3, 5 and 6) as described in the Coke Point Area Groundwater Corrective Measures Study (CMS) Work Plan (ARM 2019) to determine what modifications or alternative methods are warranted to attain remedial action objectives.

2.0 INTRODUCTION

This Coke Oven Interim Measures 2019 Progress Report for groundwater remediation at the Tradepoint Atlantic property has been prepared by ARM Group LLC (ARM) on behalf of EnviroAnalytics Group (EAG). This report presents operational information and monitoring data collected over the full year of 2019 for IM that have been installed to address environmental conditions at the former Coke Oven (CO) Special Study Area (the Site). This report also summarizes IM performance and is submitted in accordance with reporting requirements outlined in correspondence received from the United States Environmental Protection Agency (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 location of the property is shown on **Figure 1.** 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 Tradepoint Atlantic property 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 Tradepoint Atlantic property have already undergone remediation and/or redevelopment.

2.2. COKE OVEN AREA

The IMs currently in operation at the Coke Oven Area are located within five distinct smaller areas designated as Cells 1, 2, 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): AS/SVE system;
- Cell 2 (former Coal Basin Area): AS/SVE system formerly operated from the shallow groundwater zone and a GWPT system operates from the intermediate zone;
- Cell 3 (Cove Area): AS/SVE system;
- Cell 5 (Turning Basin side of former Coke Oven Area): DPE system and a DNAPL Recovery system for the shallow zone; and

- Cell 6 (former Benzol Processing Area): MPE of LNAPL.

The locations of the cells are shown on **Figure 2.** This progress report provides the following for each cell: a brief description of the IM systems; notable operations activities that occurred during 2019; a discussion of operational and analytical data from 2019, an evaluation of the effectiveness of the IM systems, 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 VOCs from the subsurface, while the purpose of the VGAC off-gas treatment unit is to capture VOCs that are present within the 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 operated for 56% of the year, with occasional short periods of downtime, which ranged from 1 to 18 days in duration. The majority of downtime occurred in the first quarter of the year. Power loss, repairs, maintenance, and intentional shut-downs all contributed to system downtime. The system was shut down intentionally to implement an intermittent operation schedule to maximize hydrocarbon removal amounts and efficiencies. In total, the AS/SVE system operated for a total of 4,933 hours during 2019. The average hydrocarbon removal rate from January to December was calculated to be 0.255 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 15,295 pounds of hydrocarbons, as shown graphically in **Figure C1-2**.

SVE influent air samples were collected monthly, and groundwater samples were collected from three monitoring wells quarterly to assess VOC concentrations in the subsurface. Groundwater samples were collected from the following monitoring 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 2019 are shown in **Table C1-2.** Analytical results for groundwater samples collected in 2019 are shown in **Table C1-3.** A time-series graph of total VOCs measured in groundwater samples is included as **Figure C1-3.** Monitoring well sampling purge logs are included as **Appendix A**. Laboratory reports containing

the analytical data from both air and groundwater samples collected in 2019 are included as **Appendix B.**

3.4. EVALUATION OF EFFECTIVENESS

Based on the system monitoring data from 2019 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 1,326 pounds of VOCs during 2019 as compared to the 1,076 pounds removed in 2018. As shown on **Table C1-1**, removal rates were highest during the second quarter of 2019. As shown on **Figure C1-3,** the concentrations of total VOCs in groundwater at monitoring wells CO02-PZM006 and CO93-PZM remained relatively stable over 2019. Overall, the total VOC concentrations in the downgradient well CO02-PZM006 are less than a third of the initial concentrations observed in 2010.

Total VOCs in monitoring well CO18-PZM006 exhibited higher than normal concentrations during March and June 2019 sampling events. CO18-PZM006 is the only one of the three monitoring wells within the boundary of the treatment cell and as such is nearly immediately affected by changes in AS/SVE operations. Such changes occurred during the second quarter of 2019 when AS/SVE operations were concentrated on select portions within the cell area. Rather than operating all 24 sparge wells on an alternating schedule as was typical, approximately six to seven sparge wells were operated at a time. The operation of these small groups of sparge wells started with sparge wells farthest to the south and progressed toward the north in approximately four-week increments. With the smaller number of sparge wells operating at a time, sparging was allowed to run 24 hours a day for several days at a time (i.e., not an alternating schedule as was previously implemented). Concurrently, SVE operations were focused on the nearest legs to the on-line sparge wells. This newer operating scenario resulted in the removal of VOC vapors that were more than five times higher in concentration than observed previously. Consequently, the increase in VOCs in CO18-PZM006 can be attributed to mobilization of dissolved VOCs in the immediate area because of the focused AS/SVE operations. Subsequent testing of the groundwater in the well during later quarterly sampling events showed much lower concentrations.

3.5. SUMMARY AND RECOMMENDATIONS

The AS/SVE system in the Former Benzol Processing Area (Cell 1) operated on an intermittent basis (i.e., periodic shutdowns) throughout 2019 in an attempt to maximize hydrocarbon removal amounts and efficiencies. The system removed an estimated 1,326 pounds of volatile hydrocarbons in 2019. The Cell 1 AS/SVE system will be evaluated to determine what modifications or alternative methods are warranted to attain remedial action objectives. The existing SVE trench is believed to be less efficient in the full removal of VOC vapors emitted from sparging operations. This removal inefficiency can result in vaporized VOCs not being captured by the SVE trench and allowed to re-solubilize, which leads to the relatively static soluble VOC concentrations that are present in Cell 1. With a focus on minimizing system downtime and increasing efficacy, the existing system should continue to be operated and monitored in

accordance with current practices. Continued use of this system and any modifications will be documented and evaluated as described in the (CMS) Work Plan (ARM 2019).

4.0 CELL 2

4.1. DESCRIPTION

Cell 2 utilizes a GWPT system for the recovery of VOC-impacted groundwater from 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. Cell 2 historically included an AS/SVE system that was operated within the shallow zone; however, it was not operated in 2019. **Figure C2-1** shows the system layout of Cell 2 and locations of the major design components including intermediate groundwater recovery wells, groundwater reinjection wells, formerly-used air sparging wells and vapor collection trench, and groundwater monitoring well locations.

4.1.1. AS/SVE System

The formerly-operated shallow zone AS/SVE system included the use of air sparge points and a horizontal vapor extraction trench. Eight air sparge points were installed along a 500-foot long SVE trench constructed immediately south of the retaining/bulkhead wall of Cell 2. Due to components of the SVE trench being submerged by shallow groundwater elevations caused by historically high rainfall volumes in 2018 and early 2019, which resulted in the inability to adequately operate the SVE system, the system was deactivated in 2018 and did not operate in 2019.

4.1.2. GWPT System

The GWPT system includes a low-profile air stripper with off-gas treatment supplied by a 600 cubic feet per minute (CFM) capacity catalytic oxidizer (CatOx). The recovery and reinjection systems include the use of up to six groundwater recovery wells and six groundwater reinjection wells. The six recovery wells (RWs) are installed along a 500-foot-long stretch immediately south of the Cell 2 bulkhead. 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 reinjection wells screened from 5 to 15 feet bgs (shallow zone)

Specific well construction details for each well are shown on **Table C2-1.**

4.2. OPERATIONS

4.2.1. AS/SVE System

The AS/SVE system was shut down in April 2018 because of shallow groundwater submergence of the SVE trench and did not operate during 2019.

4.2.2. GWPT System

The GWPT system was consistently operated throughout 2019 with only occasional periods of downtime (ranging from 1 to 17 days in duration). Power loss, repairs and maintenance all contributed to system downtime.

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

Shallow Zone

- 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. Well sampling purge logs are included in this report as **Appendix A.**

Depth-to-water level measurements were 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, and further used to assess hydraulic control of the intermediate groundwater zone by the GWPT system. The depth-to-water level measurements and groundwater elevations are summarized in **Table C2-2.** Groundwater elevation contour maps for each quarter are included as **Figures C2-3 to C2-10.**

As shown on **Table C2-3,** the GWPT system extracted and treated over 2.2 million gallons of water from the Cell 2 Area during 2019, compared to 1.2 million gallons during 2018. Quarterly totals of gallons of water discharged through the GWPT system are shown on **Table C2-3**, along with the average hydrocarbon concentrations and removal amounts for each quarter as well as the entire year.

4.3. MONITORING RESULTS

Analytical results for groundwater samples collected in 2019 from Cell 2 monitoring wells are shown in **Table C2-4.** 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 present in groundwater samples collected from shallow zone wells are included as **Figures C2-19** and **Figure C2-20,** while time-series graphs of total VOCs present in groundwater samples collected from the intermediate zone wells are included as **Figures C2-21** and **Figure C2-22.**

The quarterly hydrocarbon removal amounts for the Cell 2 GWPT system during 2019 are summarized on **Table C2-3** and shown graphically on **Figure C2-2** along with the cumulative removal amounts. Laboratory reports containing the analytical data from groundwater samples collected in 2019 are included as **Appendix B.**

The flow of groundwater in the shallow groundwater zone, which is influenced by reinjection operations from the GWPT system operating within the intermediate zone, is generally towards the north-northwest 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 (i.e., hydraulic control has been established) in the north-central portion 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 2019, the GWPT system is continuing to remove volatile hydrocarbons from the subsurface in the Cell 2 area. The GWPT system removed approximately 5,800 pounds of hydrocarbons in 2019, as compared to approximately 2,700 pounds removed during the previous year.

As shown on **Figure C2-19** and **Figure C2-20**, the total VOC concentrations in the shallow zone groundwater generally indicates 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 within the two intermediate zone groundwater wells with the highest concentrations (CO27 and CO41) decreased by 50% to 90% between September 2014 and September 2017. Concentrations in these two wells were relatively stable from then until the third and fourth quarters of 2018, at which time concentrations increased. In 2019, the total VOC concentrations remained generally stable in CO41-PZM036 and decreased in CO27-PZM046 to just 10% of the initial concentrations in 2014. Between September 2014 and September 2017, the total VOC concentrations at all other intermediate zone wells decreased and have most recently shown stable or decreasing trends.

As presented in the Former Coke Oven Area Interim Measures Supplemental Investigation Report (SIR) (ARM 2019), intermediate zone wells placed between the recovery wells and the seawall show that the concentration of benzene downgradient from the recovery wells is lower than the concentrations upgradient. These results indicate that the GWPT system has established hydraulic control and is effectively preventing the northward migration of contaminants within the intermediate zone.

4.5. SUMMARY AND RECOMMENDATIONS

Cell 2, located in the Former Coal Basin Area of the Site, includes a GWPT system for the intermediate zone groundwater, and a formerly-operated AS/SVE system for the shallow zone groundwater. The AS/SVE system was shut down in April 2018 in response to shallow groundwater compromising the SVE trench and did not operate during 2019.

Based on data collected in 2019, the existing GWPT system is providing selective removal of hydrocarbons from the subsurface; however, additional data collected in 2019 has shown the existing system may not fully address the lateral extent of VOCs in the intermediate zone. Consequently, the GWPT system will be evaluated to determine what modifications or alternative methods are warranted to attain remedial action objectives. Until the evaluation, the intermediate zone GWPT at Cell 2 will be operated in accordance with current practices. Evaluation of Cell 2 IMs are described in the CMS Work Plan (ARM, 2019) and will aid in identifying specific modifications and/or alternative methods that will address the areal extent of VOCs in the intermediate zone.

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 to remove 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 location of each major design component, which includes the air sparging wells, a vapor collection trench 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* (URS 2011).

5.2. OPERATIONS

Operational performance of the AS/SVE system in Cell 3 during this reporting period is summarized in **Table C3-1**, which shows that the AS/SVE system operated for about 4,800 hours during 2019. The average hydrocarbon removal rate was approximately 0.008 pounds per operating hour in 2019, resulting in the removal of approximately 30 pounds of hydrocarbons, compared to 151 pounds removed in 2018 with similar operating times. This indicates that the system is currently yielding lower VOC vapor concentrations. **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 1,965 pounds of hydrocarbons as shown graphically in **Figure C3-2**.

SVE influent air samples were collected monthly from February through December to monitor the AS/SVE system performance. The system operated continuously through 2019 with occasional periods of downtime ranging from 1 to 21 days. Power loss, repairs and maintenance all contributed to system downtime.

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 2019 are shown in **Table C3-2.** Analytical results for groundwater samples collected in 2019 are shown in **Table C3-3.** A time-series graph of total VOCs collected in groundwater samples is included as **Figure C3-3.** Laboratory reports containing the analytical data from both air and groundwater samples collected in 2019 are included as **Appendix B.**

5.4. EVALUATION OF EFFECTIVENESS

Based on the system monitoring data from 2019 and as shown on **Figure C3-2**, the AS/SVE system did not remove a significant mass of VOCs when compared to the prevailing dissolved VOC concentrations in the local groundwater. As shown on **Table C3-1** and **Figure C3-2**, approximately 30 pounds of hydrocarbons were removed from the Cell 3 area in 2019 compared to the 151 pounds removed during the prior year. The groundwater monitoring data indicate that benzene and naphthalene are the most prevalent constituents in groundwater at Cell 3. Over the past two-plus years, groundwater concentrations have remained relatively stable or have declined, but total VOC concentrations are still ranging from about 5,200 µg/l to over 62,000 µg/l, as illustrated in **Figure C3-3**.

In the SIR (ARM 2019), vertical profiling indicated that the majority of the benzene mass is located primarily in the interval from 15 to 30 feet bgs, which extends below the depth of the existing air sparge wells. In addition, the majority of the naphthalene mass was identified primarily in the interval from 20 to 40 feet bgs. These results indicate that the existing sparge wells are not deep enough to fully intercept the VOC-impacted groundwater. Groundwater elevations provided in the SIR reveal an essentially flat potentiometric surface at Cell 3, likely fluctuating with tidal influence.

5.5. SUMMARY AND RECOMMENDATIONS

The AS/SVE system in the "Cove" Area (Cell 3) operated for approximately 4,800 hours in 2019, removing an estimated 30 pounds of hydrocarbons. The concentrations of volatile hydrocarbons in the groundwater have remained mostly stable with some minor reductions over the past two years. As VOC recovery has been below expectations, the AS/SVE system at Cell 3 will be evaluated as described in the CMS Work Plan (ARM 2019) to determine what modifications or alternative methods are warranted to attain remedial action objectives. Until that time, the current system will be operated with focused attention on select portions of the local VOC plume.

6.0 CELL 5

6.1. DESCRIPTION

6.1.1. DPE System

Cell 5 consists of a DPE system that incorporates a low-profile air stripper followed by VGAC for removal and treatment of both VOC vapors, and dissolved volatile hydrocarbons from the shallow groundwater 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. **Figure C5-1** shows the system layout of Cell 5 and the location of each major design component including the dual-phase recovery points, groundwater reinjection wells and groundwater monitoring well locations.

The recovery and reinjection systems include the use of twelve (12) dual-phase (soil vapor and groundwater) recovery wells and six groundwater reinjection wells. The 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
- Constructed with screen intervals from-15-17 feet bgs
- Vapor recovery perforations located between 10-12 ft bgs

Treatment Process:

- Recovered groundwater enters moisture separator (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 reinjection wells screened from 5 to 15 feet (shallow zone)

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

6.1.2. DNAPL Recovery System

DNAPL removal began from the Cell 5 area in the latter part of the 4th quarter 2015. DNAPL is removed from the subsurface using several extraction wells constructed with collection sumps below the screened interval. Pneumatic DNAPL skimmer pumps were installed within two specific extraction wells that routinely collected the greatest amounts of DNAPL: CO123-PZM and CO125-PZM. DNAPL that is removed from the wells is pumped into drums positioned adjacent to each well and disposed of off-site every 90 days.

6.2. OPERATIONS

6.2.1. DPE System

Table C5-2 shows the quarterly summary of total groundwater treated by the DPE system. Approximately 5.8 million gallons of water were extracted from the DPE wells and treated during 2019, compared to over 6.5 million gallons during 2018. The average rate of groundwater recovery for the DPE system was approximately 15,920 gallons per day or approximately 11 gallons per minute.

6.2.2. DNAPL Recovery System

Table C5-3 summarizes DNAPL occurrence and recovery observed in monitoring wells during 2019, as well as cumulative DNAPL recovered since the beginning of the IM. As shown on this table, approximately 230 gallons of DNAPL were recovered in 2019, compared to 370 gallons in 2018.

6.3. MONITORING RESULTS

Groundwater samples were collected from the following shallow zone monitoring wells.

- 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 C5-4.** Groundwater elevation maps for each quarter are included as **Figures C5-3 to C5-6.**

Analytical results for groundwater samples collected in 2019 are shown in **Table C5-5.** The groundwater monitoring data indicate that naphthalene is the most prevalent hydrocarbon constituent in groundwater at Cell 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 **C5-13.** Laboratory reports containing the analytical data from groundwater samples collected in 2019 are included as **Appendix B.**

6.4. EVALUATION OF EFFECTIVENESS

As summarized on **Table C5-2** and **Table C5-3**, the Cell 5 DPE system and DNAPL recovery system removed approximately 230 and 3,170 pounds of hydrocarbons, respectively, for a total of 3,400 pounds removed during 2019. As shown on **Figure C5-11,** monitoring wells near the reinjection area have exhibited temporary increases in the total VOCs, but current concentrations are slightly below concentrations measured in 2014. As shown on **Figure C5-12,** VOC concentrations in CO56-PZP001 increased temporarily but have stabilized at approximately the level initially observed in 2102, while VOC concentrations in CO55-PZM000 and CO57-PZP002 have decreased since 2014 and have remained at very low levels for the past two years. As shown on **Figure C5-13,** total VOCs in perimeter monitoring wells measured in 2019 are generally below concentrations measured in 2014 and have fluctuated but exhibited no significant trend for the past two years. The lower than expected reduction in VOC concentrations is believed to be partly caused by the extraction wells not fully penetrating the full extent of slag in the Cell 5 area, in addition to the source-area material continuing to release VOCs into the Cell 5 recovery well network. Until source-area material is addressed, local groundwater quality conditions is likely to remain unchanged.

6.5. SUMMARY AND RECOMMENDATIONS

Cell 5 includes a DPE system and a DNAPL recovery system for treatment of the shallow zone groundwater in the "Turning Basin" side of the former Coke Oven Area. The DPE system operated for approximately 80% of the year. The DPE system and the DNAPL recovery system together removed approximately 3,400 pounds of hydrocarbons from the Cell 5 area, with the significant majority coming from the DNAPL recovery system. In response to supplemental data generated in 2019 showing the VOC plume to be more laterally extensive in the area of Cell 5, both IMs will be evaluated as described in the CMS Work Plan (ARM 2019). Until completion of this evaluation, the current system will continue operation.

7.0 CELL 6

7.1. DESCRIPTION

The Cell 6 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 LNAPL had begun 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 of the system 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 installation of the MPE system, the amount of LNAPL recovered by the MPE system during 2019, and total LNAPL recovered over the entire historical operational period.

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 MPE system and manual skimming/bailing removed approximately 16,000 pounds of LNAPL during 2019, compared to 11,000 pounds during the previous year. **Figure C6-3 through Figure C6-6** show the average LNAPL thicknesses present in each of the Cell 6 extraction wells during each of the four quarters of 2019. When comparing the average LNAPL thicknesses in extraction wells from the fourth quarter 2018 to fourth quarter 2019, LNAPL thicknesses exhibited slight decreases in the Cell 6 source area. This change over time is displayed on **Figure C6-7**. The thinning of LNAPL accumulations through the year is a direct effect of recovery efforts as well as groundwater fluctuations. A review of groundwater elevations and LNAPL thickness verses time shows that when groundwater elevations are higher (closer to the surface), thinner accumulations prevail; conversely, lower groundwater elevations (deeper) yield thicker accumulations. Due to the reinjection wells showing a decreased ability to accept discharged groundwater from the MPE system by the end of 2019, new reinjection wells have been constructed to accommodate continued MPE operation. The decrease in reinjection capacity was a result of increasingly higher pressures being required to reinject generated liquids to the point that pressure relief components within the system were regularly fault-activated. In addition to the installation of new reinjection wells, the MPE system as a whole will be evaluated to determine what modifications or alternative methods are warranted to attain remedial action objectives as described in the CMS Work Plan (ARM 2019).

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 MPE system, including manual bailing and skimming, removed an estimated 16,000 pounds of LNAPL during 2019, with a cumulative removal amount of approximately 162,900 pounds since LNAPL recovery was started in July 2010. LNAPL thickness should continue to be measured throughout 2020, and the data used to identify areas that may require more intense remedial efforts. While the MPE system is continuing to remove LNAPL from the subsurface with reasonable efficiency, remedial program enhancements will be evaluated as described in the CMS Work Plan (ARM 2019).

8.0 SUMMARY AND CONCLUSIONS

The IMs at the former CO area were operated during 2019 in accordance with the operating plans, with the exception of the AS/SVE system in Cell 2. This system was shut down in April 2018 in response to shallow groundwater submergence of the SVE recovery trench due to historically high rainfall volumes in 2018 and early 2019 and did not operate during 2019. Based on the estimated hydrocarbon removal amounts from the remedial activities at Cells 1, 2, 3, 5, and 6, a total of approximately 26,560 pounds of hydrocarbons were removed from the Coke Oven cells in 2019, showing an increase in removal when compared to the 18,700 pounds that were removed in 2018.

Based on the results of monitoring data collected at the CO area during 2019, it is recommended that the frequency of groundwater monitoring be reduced from quarterly sample collection to semi-annual sample collection. The existing IMs at all cells will be evaluated as described in the CMS Work Plan (ARM 2019) to determine modifications or alternative methods necessary to attain remedial objectives.

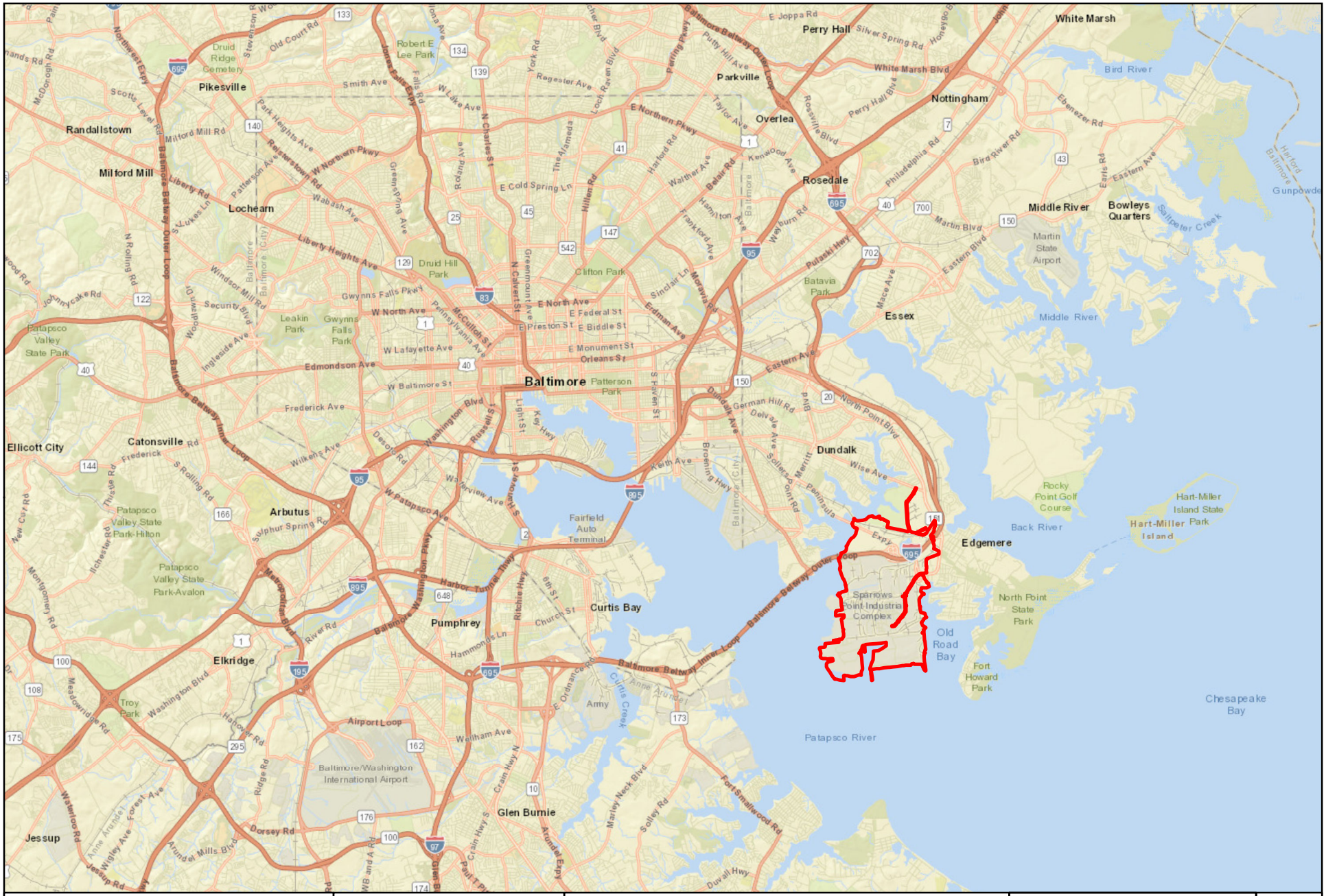
9.0 REFERENCES

ARM Group Inc. (2019). *Supplemental Offshore Investigation Report.* Revision 0. August 2, 2019.

ARM Group Inc. (2019). *Coke Point Area Groundwater Corrective Measures Study Work Plan.* Revision 0. October 18, 2019.Key Environmental (2015). *Pre-Design Investigation (PDI) Summary Report – Former Coke Oven Area.* October 9, 2015.

URS Corporation. (2011). *Coke Oven Area Interim Measures Cell 3 "Cove" Area Air Sparge/Soil Vapor Extraction System Design*). March 1, 2011.

FIGURES



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ARM Group LLC
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0 1.25 2.5 5 Miles

Property Boundary

Tradepoint Atlantic
Regional Site View

January 14, 2020

EnviroAnalytics Group	Figure 1
Tradepoint Atlantic	
Baltimore County, MD	



N

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1 inch = 500 feet

0 250 500
Feet

Former Coke Oven Area
Interim Measures Cell Locations

Date: 1/14/2020

Figure 2

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N

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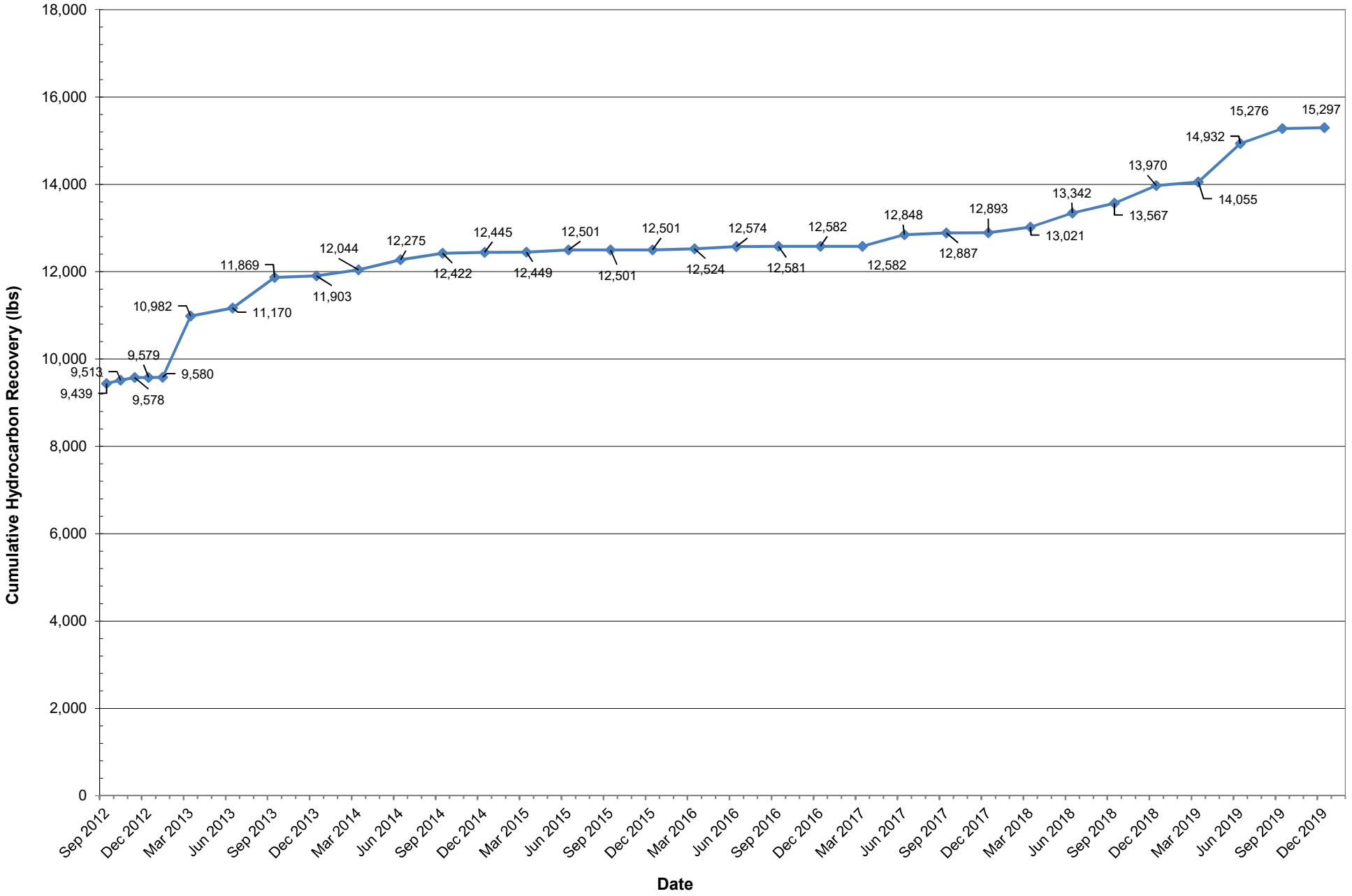
1 inch = 100 feet

0 50 100
Feet

Former Coke Oven Area
Cell 1 System Layout
AS/SVE
Date: 1/14/2020

Figure
C1-1

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



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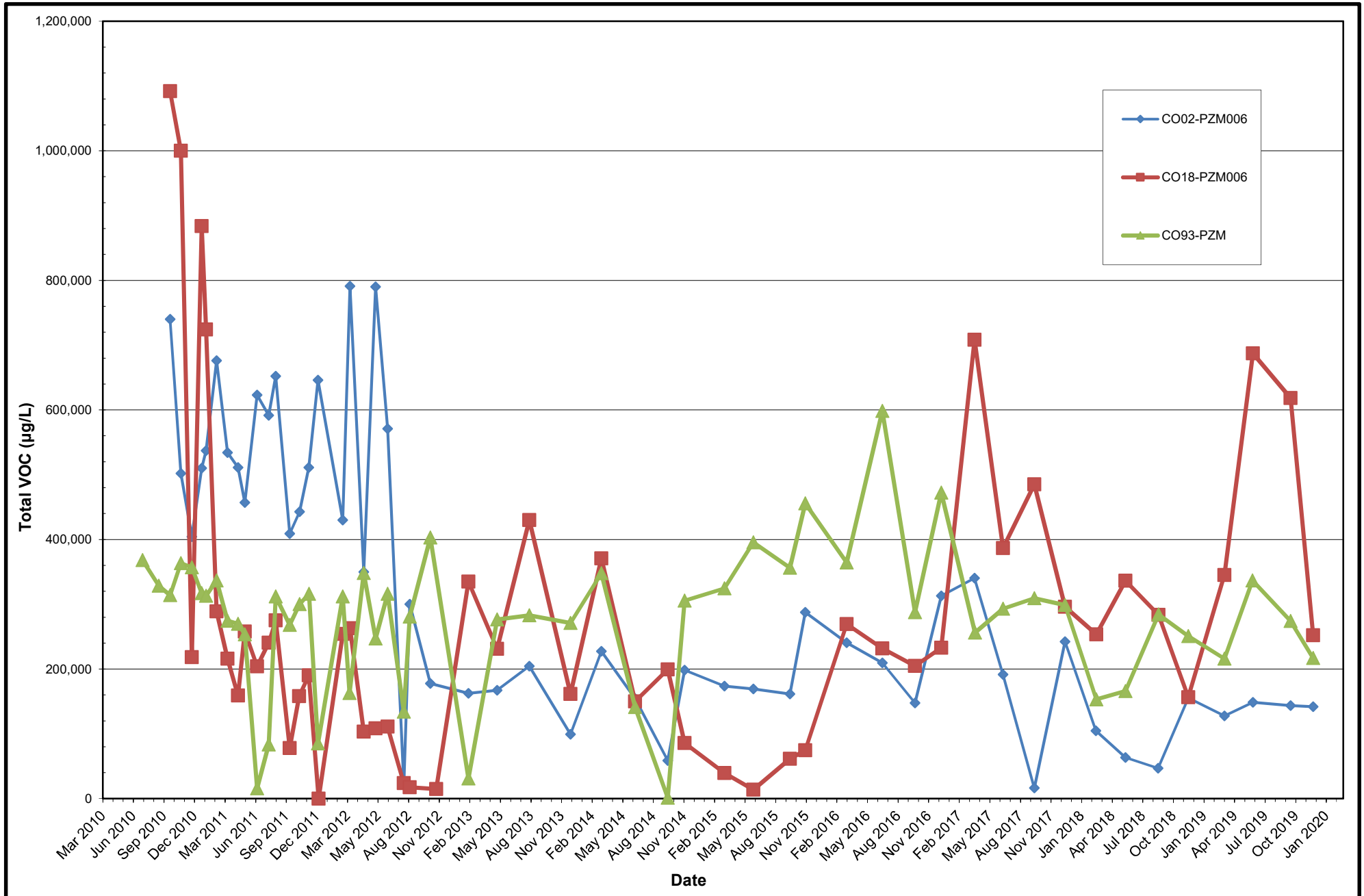
Former Coke Oven Area
Tradepoint Atlantic

Sparrows Point, Maryland

Cumulative Hydrocarbon Recovery (lbs) Cell 1

January 14, 2020

Figure C1-2



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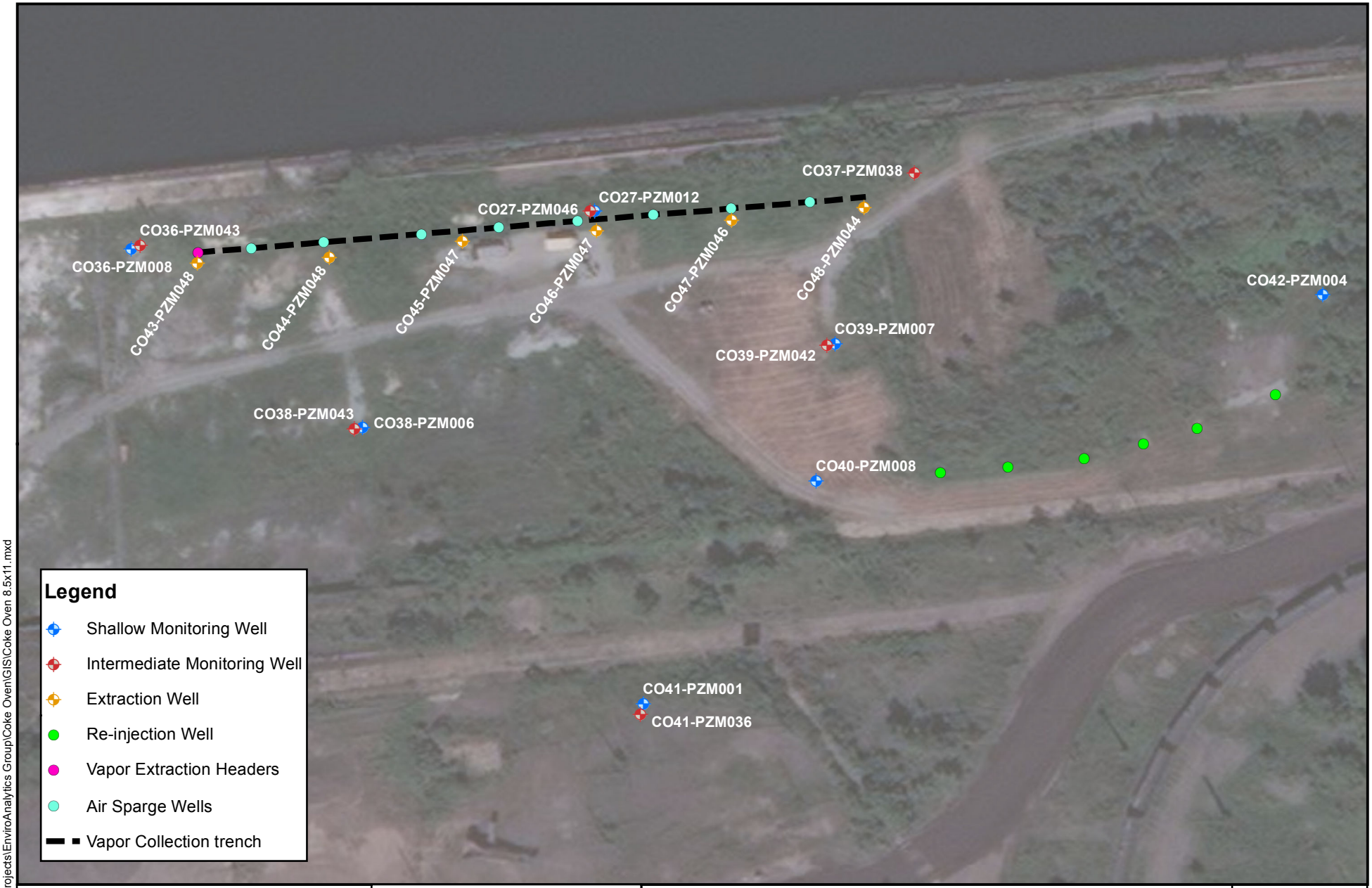
Former Coke Oven Area
Tradepoint Atlantic

Sparrows Point, Maryland

Total VOCs in Groundwater
Cell 1 Shallow Zone

January 14, 2020

Figure
C1-3



N

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 System Layout
AS/SVE and GW P&T
Date: 1/14/2020

Figure C2-1

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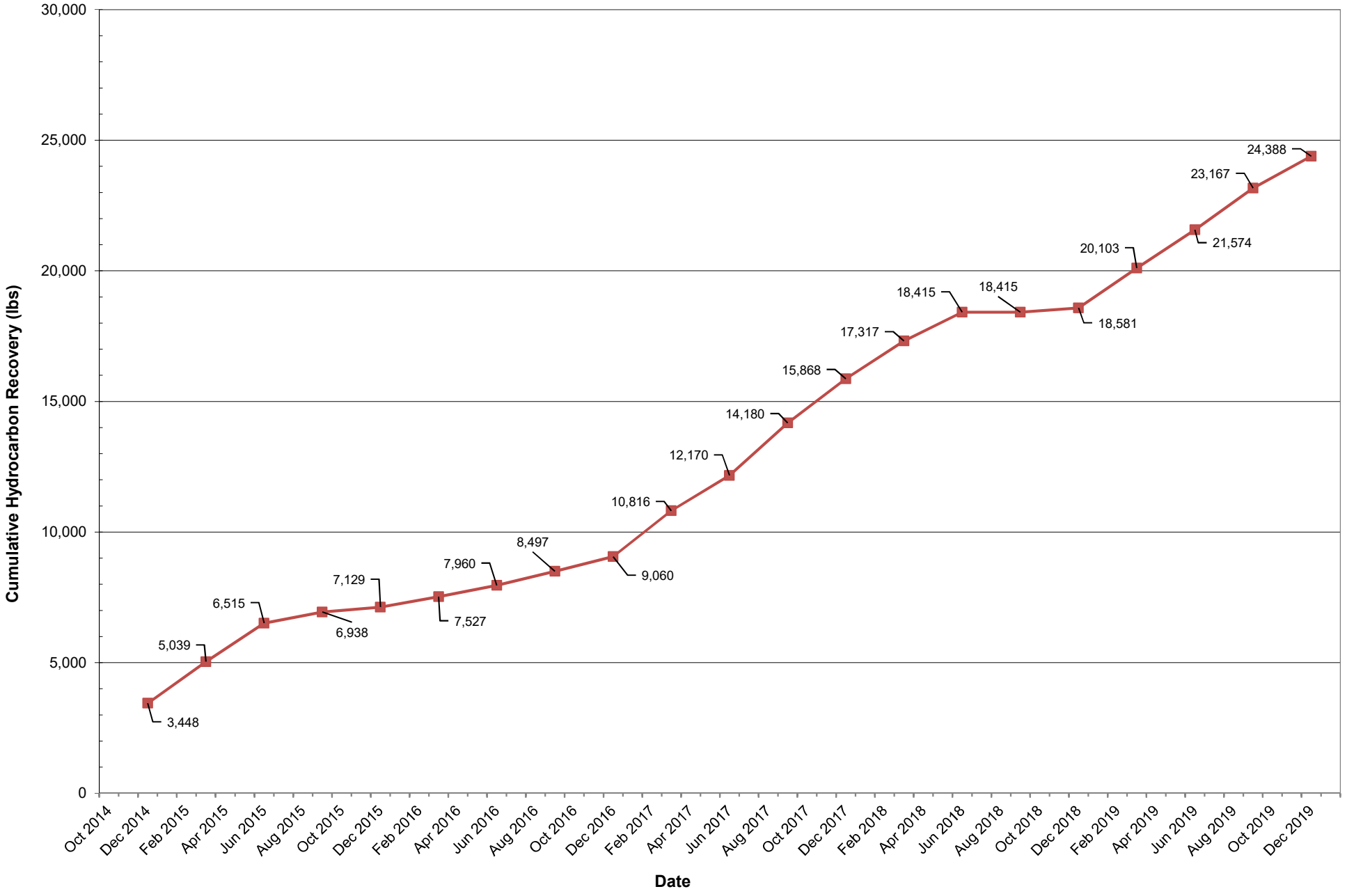

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Former Coke Oven Area
Tradepoint Atlantic

Sparrows Point, Maryland

Cumulative Hydrocarbon Recovery (lbs)
Cell 2

January 14, 2020

Figure
C2-2



N

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q1 Groundwater Elevation
Shallow Zone

Date: 1/14/2020

Figure C2-3

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N

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q2 Groundwater Elevation
Shallow Zone

Date: 1/14/2020

Figure C2-4

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q3 Groundwater Elevation
Shallow Zone

Date: 1/14/2020

Figure C2-5

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q4 Groundwater Elevation
Shallow Zone
Date: 1/14/2020

Figure C2-6

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q1 Groundwater Elevation
Intermediate Zone

Date: 1/14/2020

Figure C2-7

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N

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q2 Groundwater Elevation
Intermediate Zone
Date: 1/14/2020

Figure C2-8

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q3 Groundwater Elevation
Intermediate Zone
Date: 1/14/2020

Figure C2-9

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q4 Groundwater Elevation
Intermediate Zone

Date: 1/14/2020

Figure
C2-10

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q1 Benzene Concentrations
Shallow Zone

Date: 1/14/2020

Figure
C2-11

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q2 Benzene Concentrations
Shallow Zone
Date: 1/14/2020

Figure C2-12

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q3 Benzene Concentrations
Shallow Zone
Date: 1/14/2020

Figure C2-13

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q4 Benzene Concentrations
Shallow Zone

Date: 1/14/2020

Figure
C2-14

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q1 Benzene Concentrations
Intermediate Zone

Date: 1/14/2020

Figure
C2-15

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q2 Benzene Concentrations
Intermediate Zone
Date: 1/14/2020

Figure C2-16

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q3 Benzene Concentrations
Intermediate Zone
Date: 1/14/2020

Figure C2-17

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1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q4 Benzene Concentrations
Intermediate Zone
Date: 1/14/2020

Figure C2-18

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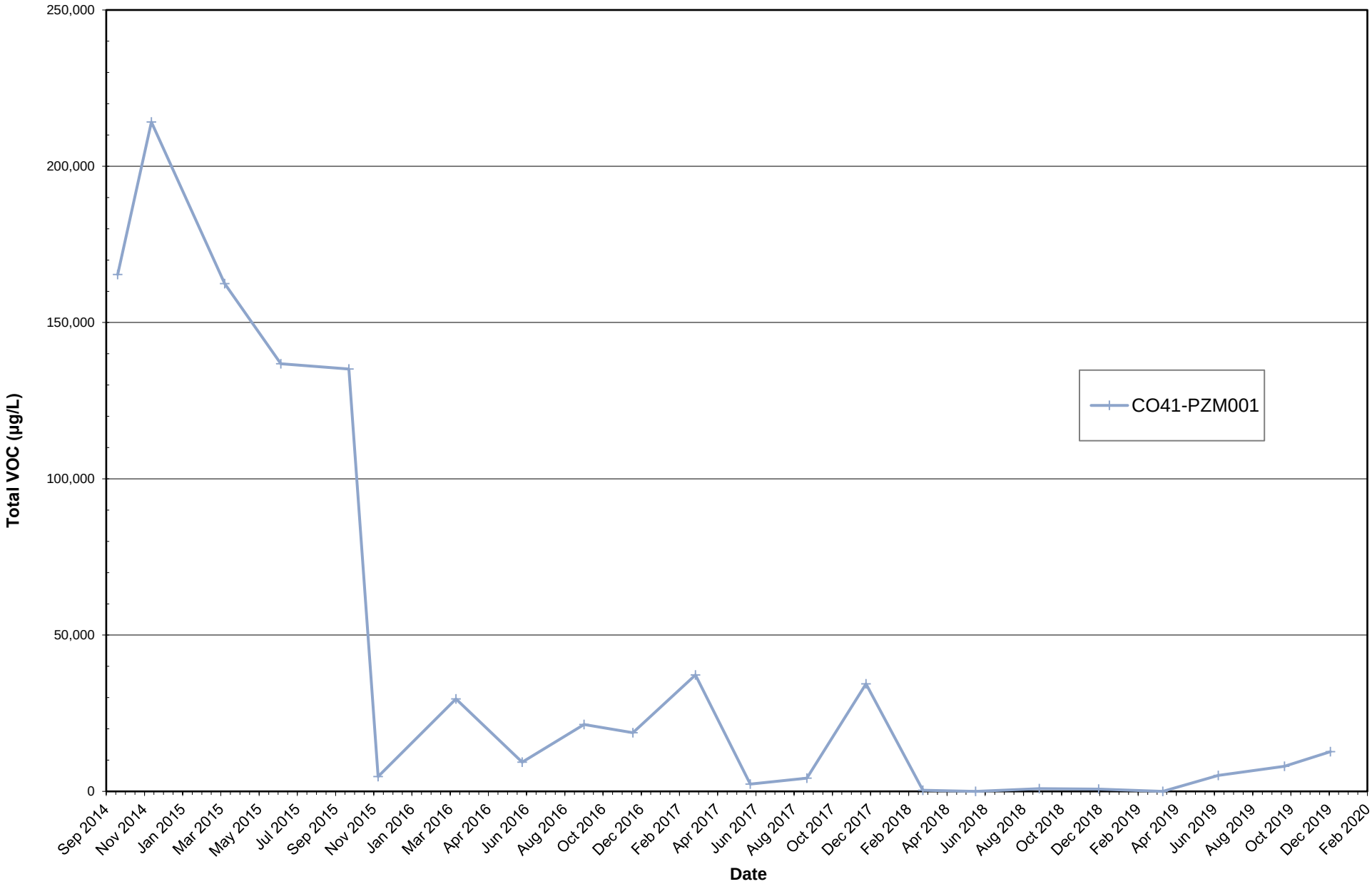

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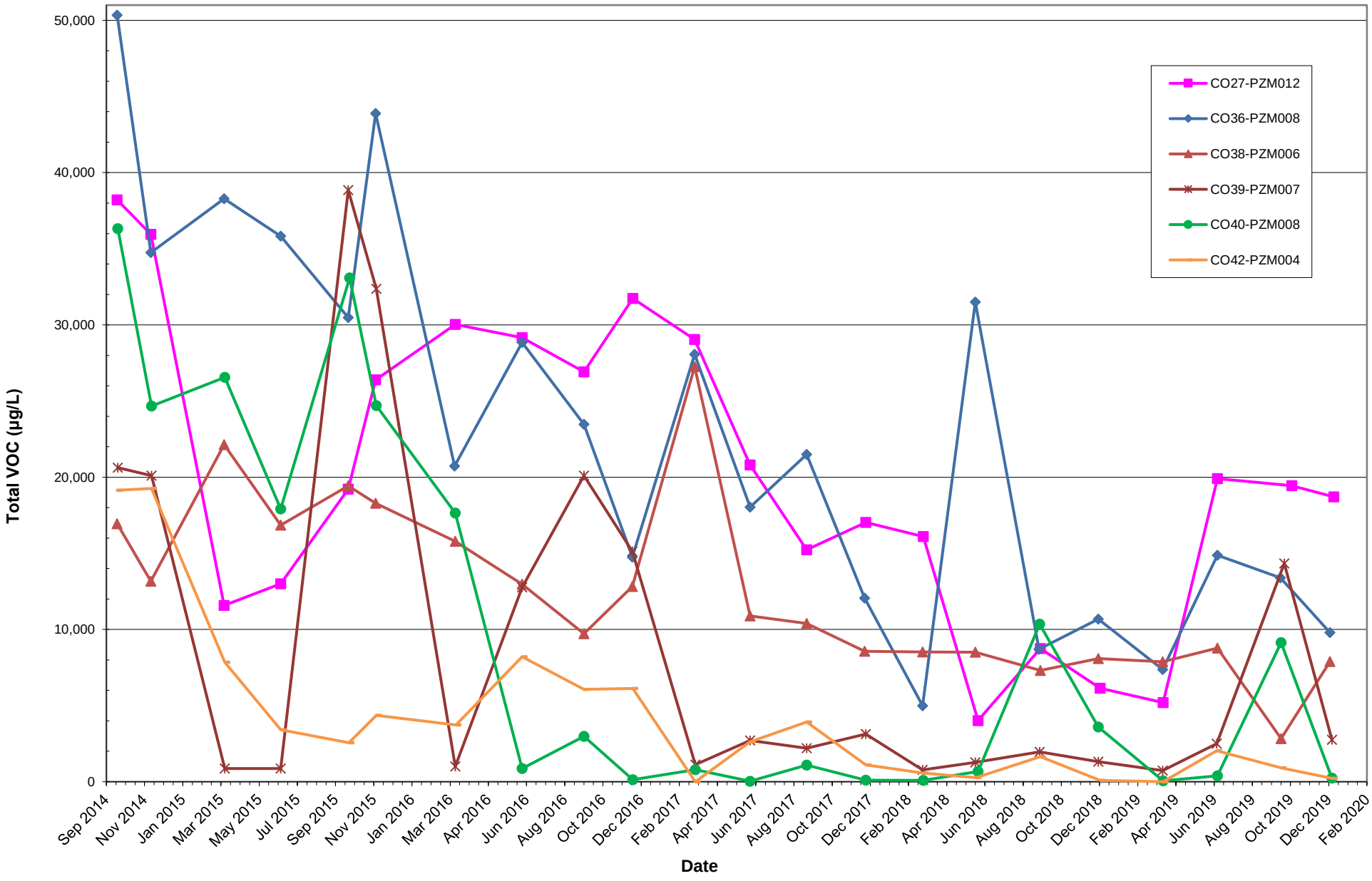
Former Coke Oven Area
Tradepoint Atlantic

Sparrows Point, Maryland

Total VOCs in Cell 2 Groundwater Shallow Zone - Well Group 1

January 23, 2020

Figure
C2-19



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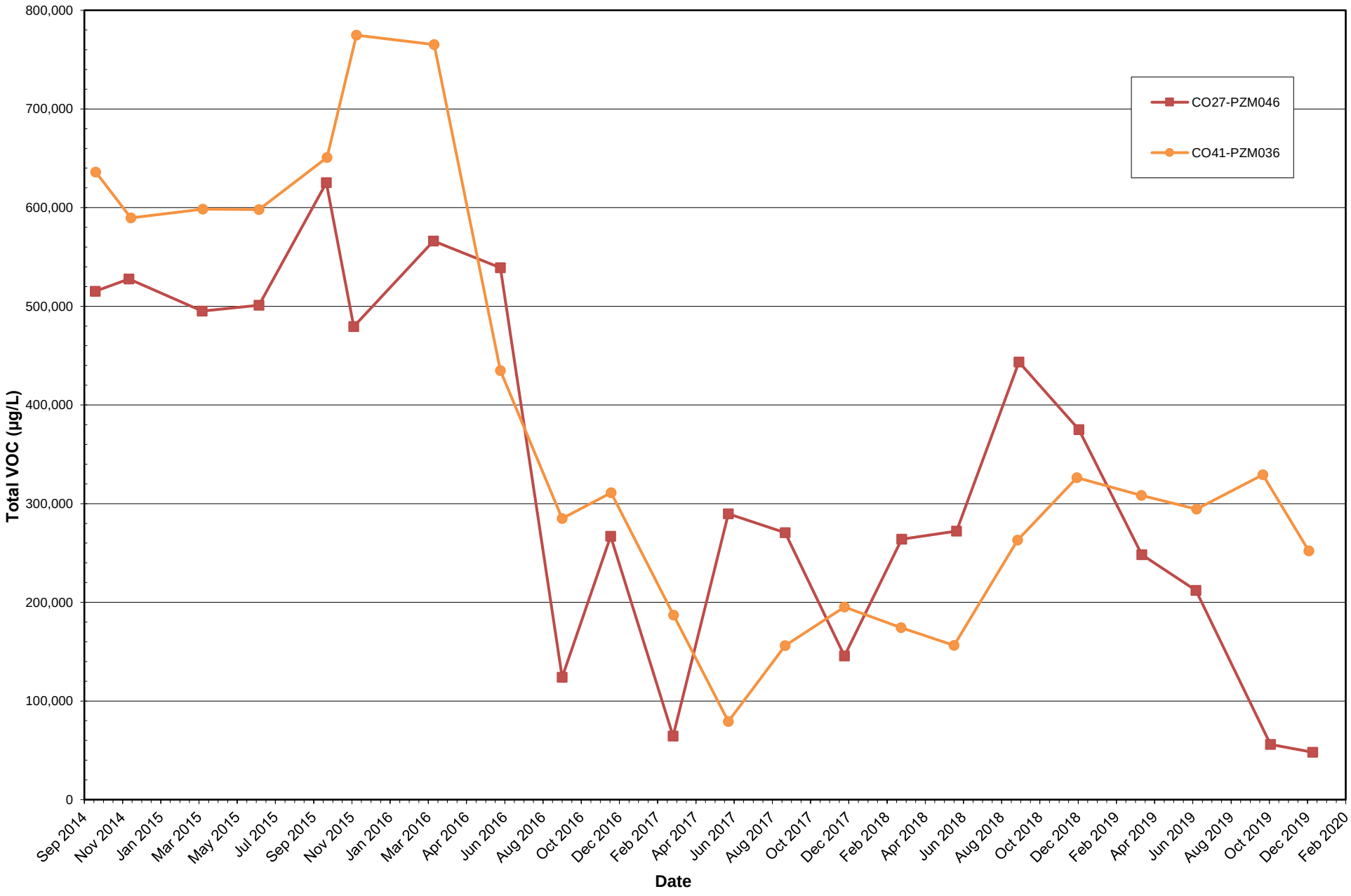
Former Coke Oven Area
Tradepoint Atlantic

Sparrows Point, Maryland

Total VOCs in Cell 2 Groundwater Shallow Zone - Well Group 2

January 23, 2020

Figure
C2-20



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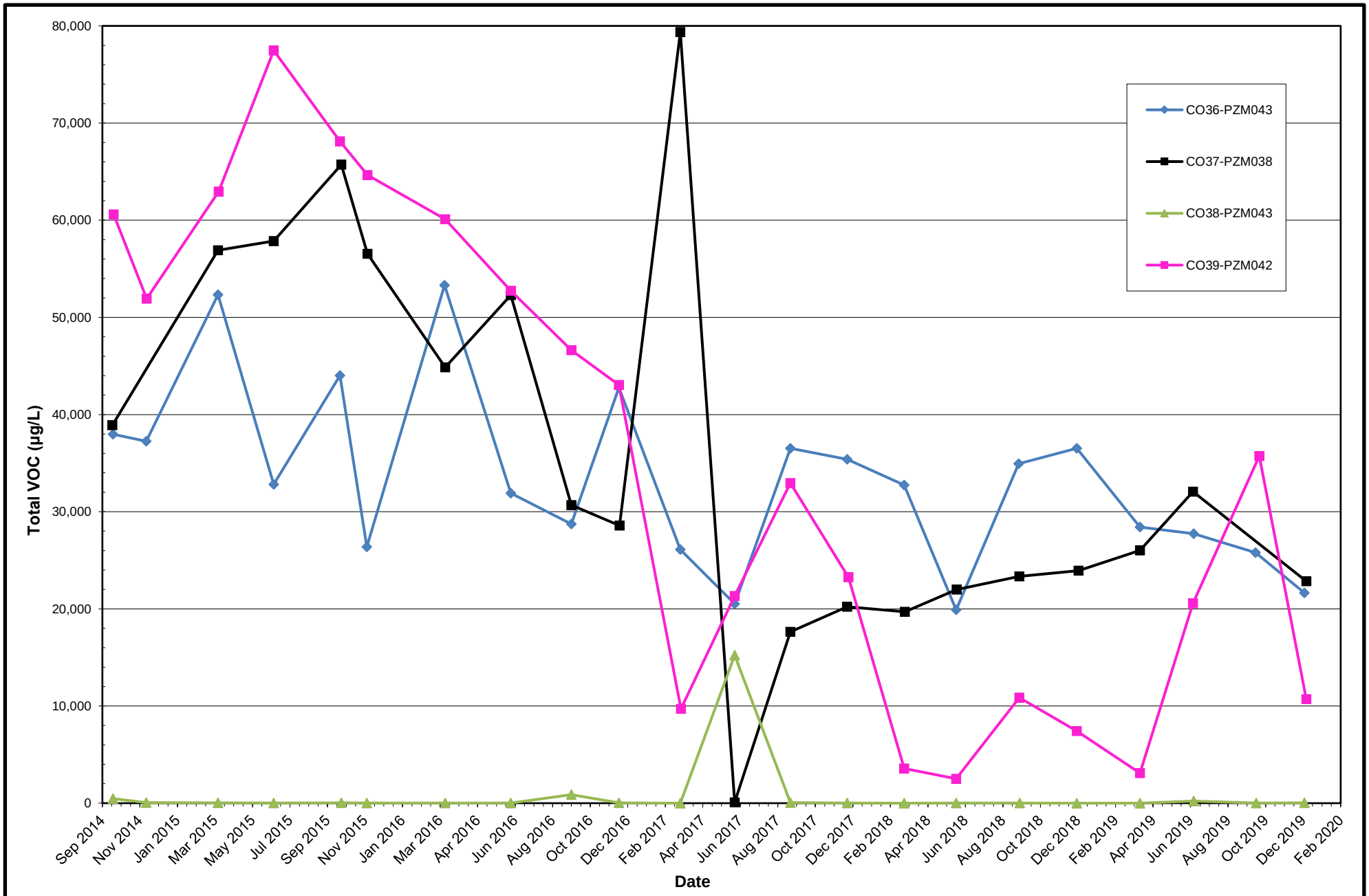
Former Coke Oven Area
Tradepoint Atlantic

Sparrows Point, Maryland

Total VOCs in Cell 2 Groundwater Intermediate Zone - Well Group 1

January 23, 2020

Figure
C2-21



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Former Coke Oven Area
Tradepoint Atlantic

Sparrows Point, Maryland

Total VOCs in Cell 2 Groundwater Intermediate Zone - Well Group 2

January 23, 2020

Figure
C2-22



N

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1 inch = 100 feet

0 50 100
Feet

Former Coke Oven Area
Cell 3 System Layout
AS/SVE
Date: 1/14/2020

Figure
C3-1

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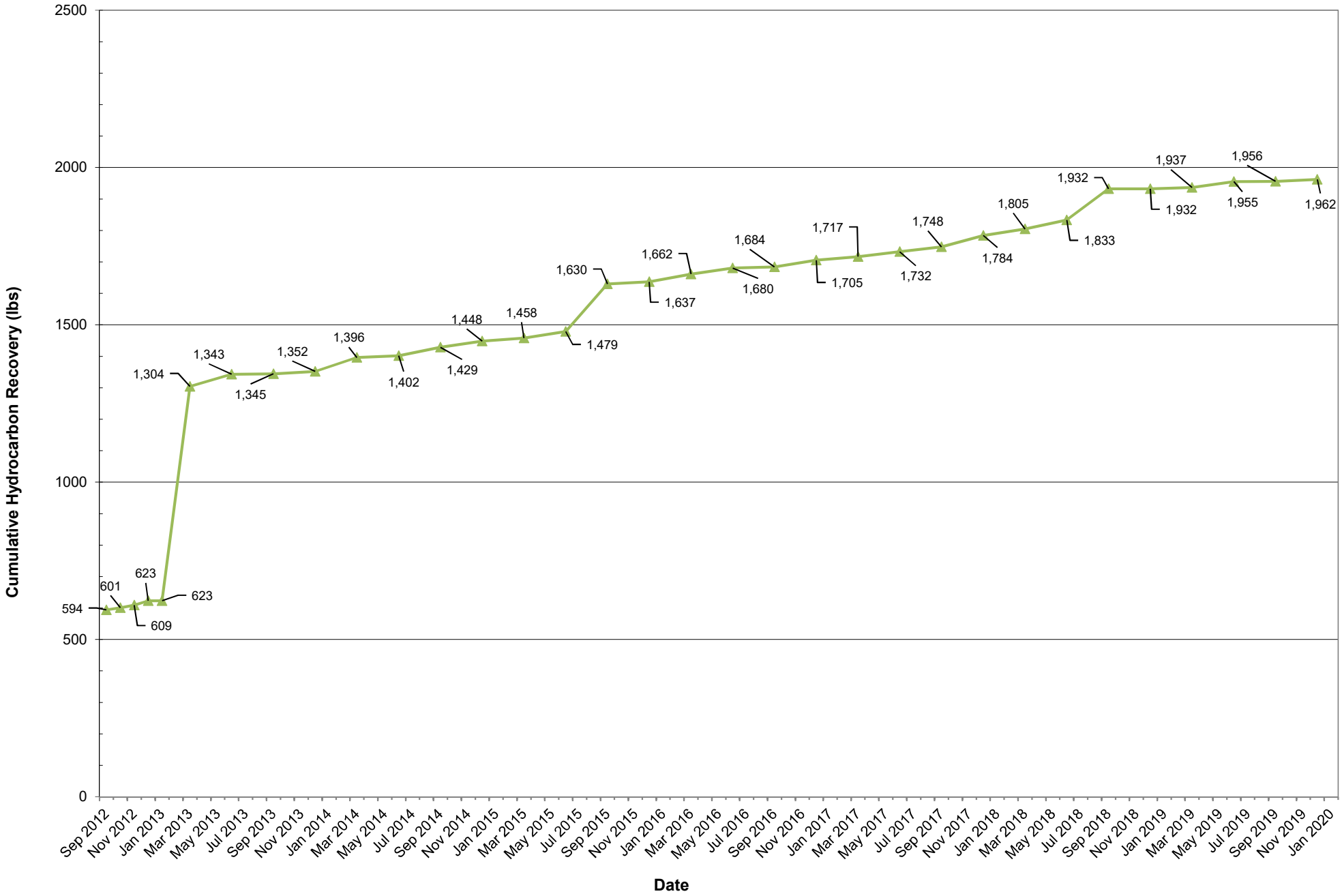

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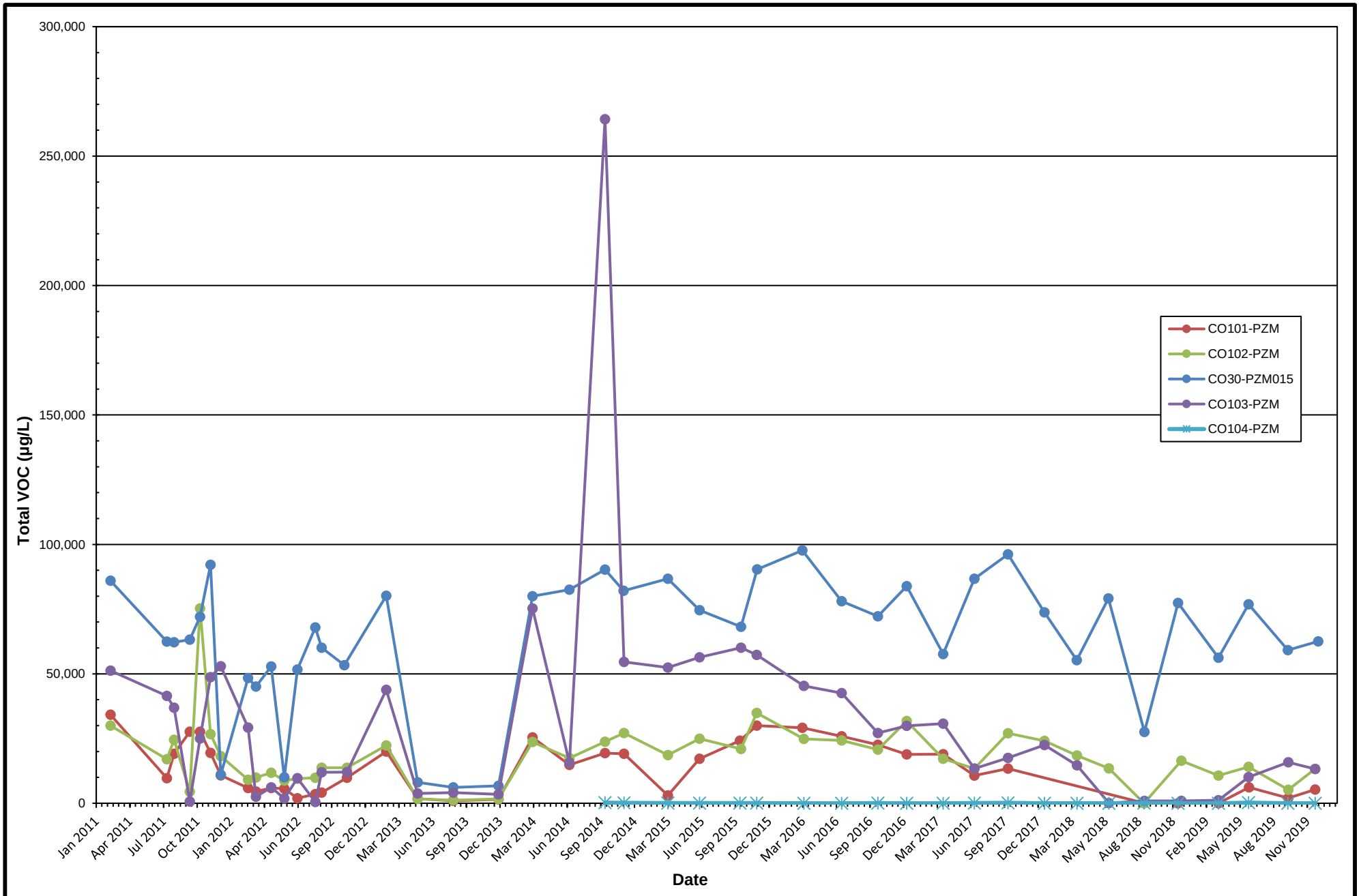
Former Coke Oven Area
Tradepoint Atlantic

Sparrows Point, Maryland

Cumulative Hydrocarbon Recovery (lbs)
Cell 3

January 14, 2020

Figure
C3-2



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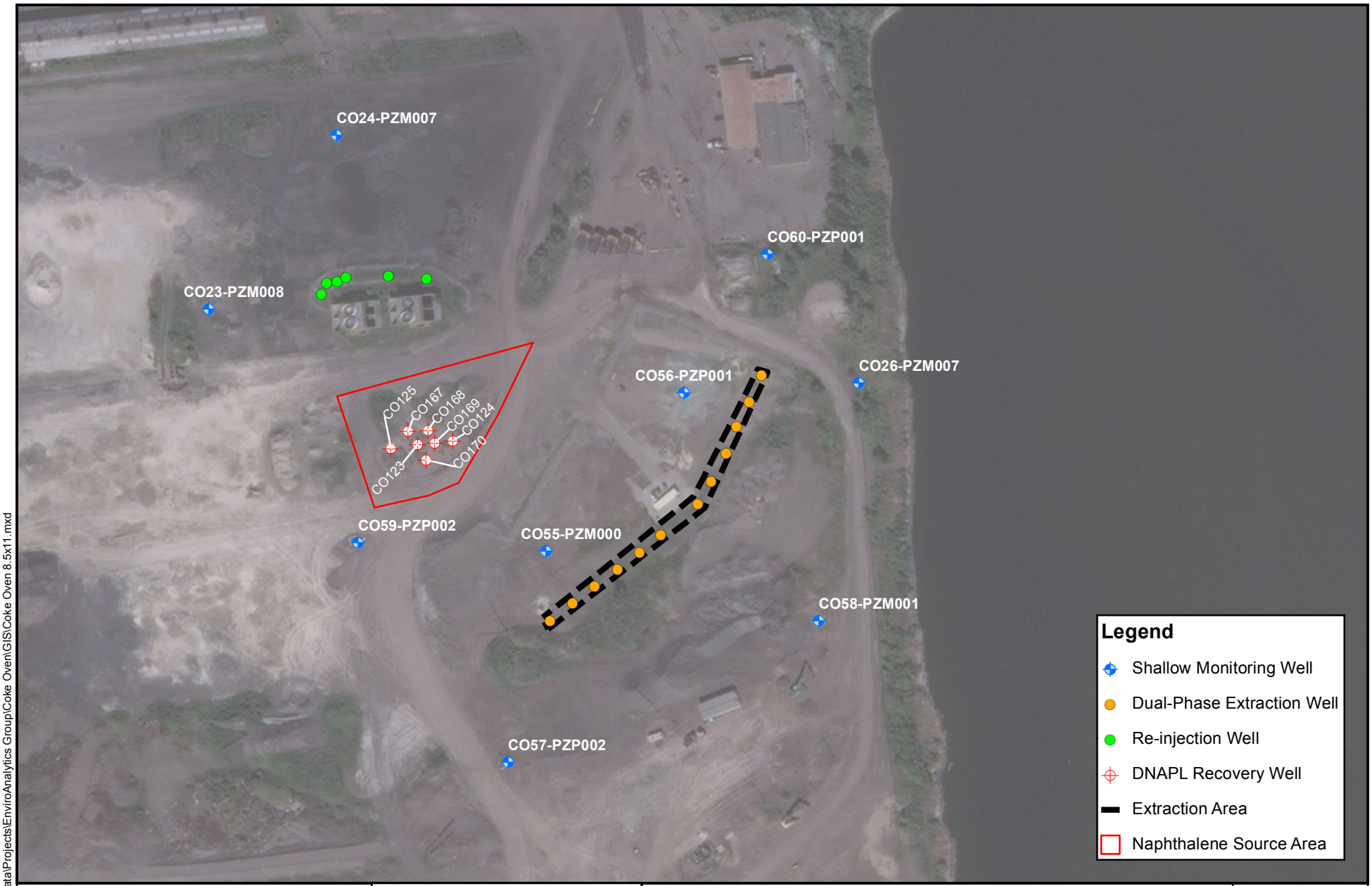
Former Coke Oven Area
Tradepoint Atlantic

Sparrows Point, Maryland

Total VOCs in Cell 3 Groundwater Shallow Zone

January 23, 2020

Figure
C3-3



N

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1 inch = 200 feet

0 100 200 Feet

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

Date: 1/14/2020

Figure C5-1

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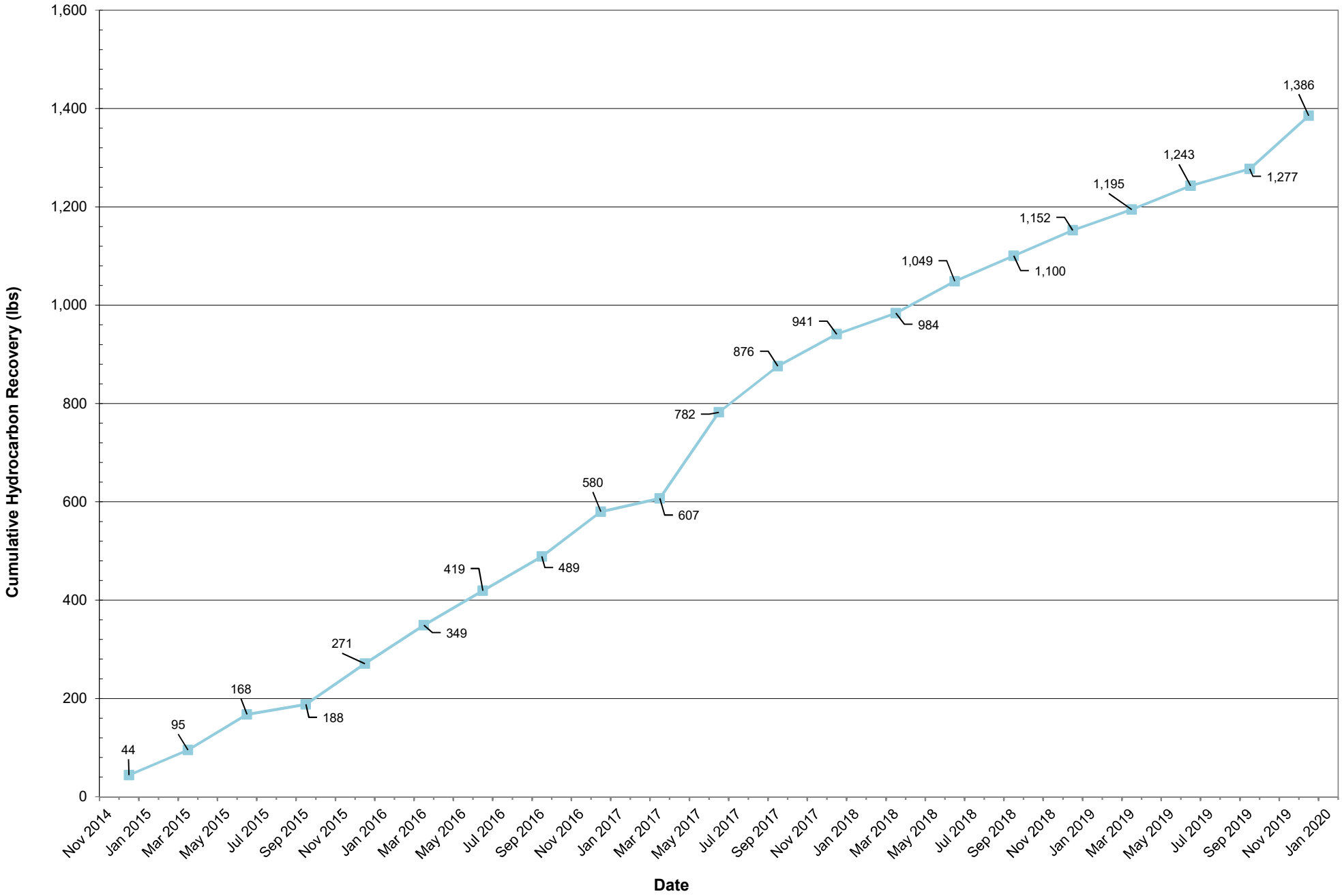

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Former Coke Oven Area
Tradepoint Atlantic

Sparrows Point, Maryland

Cumulative Hydrocarbon Recovery (lbs)
Cell 5

January 14, 2020

Figure
C5-2



N

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1 inch = 200 feet

0 100 200 Feet

Former Coke Oven Area
Cell 5 Q1 Groundwater Elevation
Shallow Zone

Date: 1/14/2020

Figure C5-3

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1 inch = 200 feet

0 100 200 Feet

Former Coke Oven Area
Cell 5 Q2 Groundwater Elevation
Shallow Zone

Date: 1/14/2020

Figure C5-4

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1 inch = 200 feet

0 100 200 Feet

Former Coke Oven Area
Cell 5 Q3 Groundwater Elevation
Shallow Zone

Date: 1/14/2020

Figure C5-5

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1 inch = 200 feet

0 100 200 Feet

Former Coke Oven Area
Cell 5 Q4 Groundwater Elevation
Shallow Zone
Date: 1/14/2020

Figure C5-6

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N

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1 inch = 200 feet

0 100 200 Feet

Former Coke Oven Area
Cell 5 Q1 Naphthalene Concentrations
Shallow Zone
Date: 1/14/2020

Figure C5-7

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1 inch = 200 feet

0 100 200 Feet

Former Coke Oven Area
Cell 5 Q2 Naphthalene Concentrations
Shallow Zone

Date: 1/14/2020

Figure C5-8

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1 inch = 200 feet

0 100 200 Feet

Former Coke Oven Area
Cell 5 Q3 Naphthalene Concentrations
Shallow Zone

Date: 1/14/2020

Figure
C5-9

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



N

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Engineers and Scientists

1 inch = 200 feet

0 100 200 Feet

Former Coke Oven Area
Cell 5 Q4 Naphthalene Concentrations
Shallow Zone

Date: 1/14/2020

Figure
C5-10

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



ARM Group LLC
Engineers and Scientists

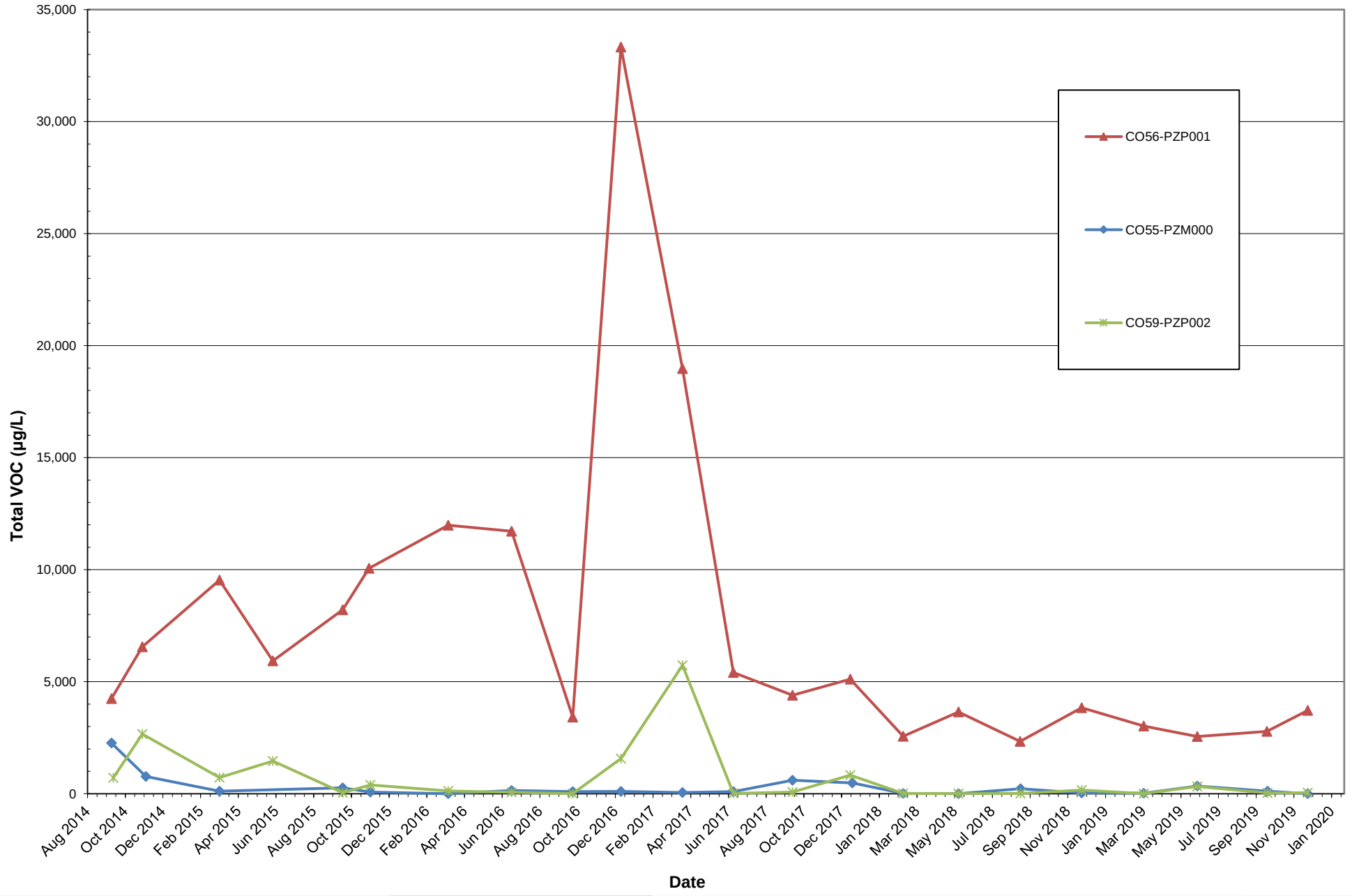
Former Coke Oven Area
Tradepoint Atlantic

Sparrows Point, Maryland

Total VOCs in Cell 5 Groundwater Injection-Area Monitoring Wells

January 23, 2020

Figure
C5-11



ARM Group LLC
Engineers and Scientists

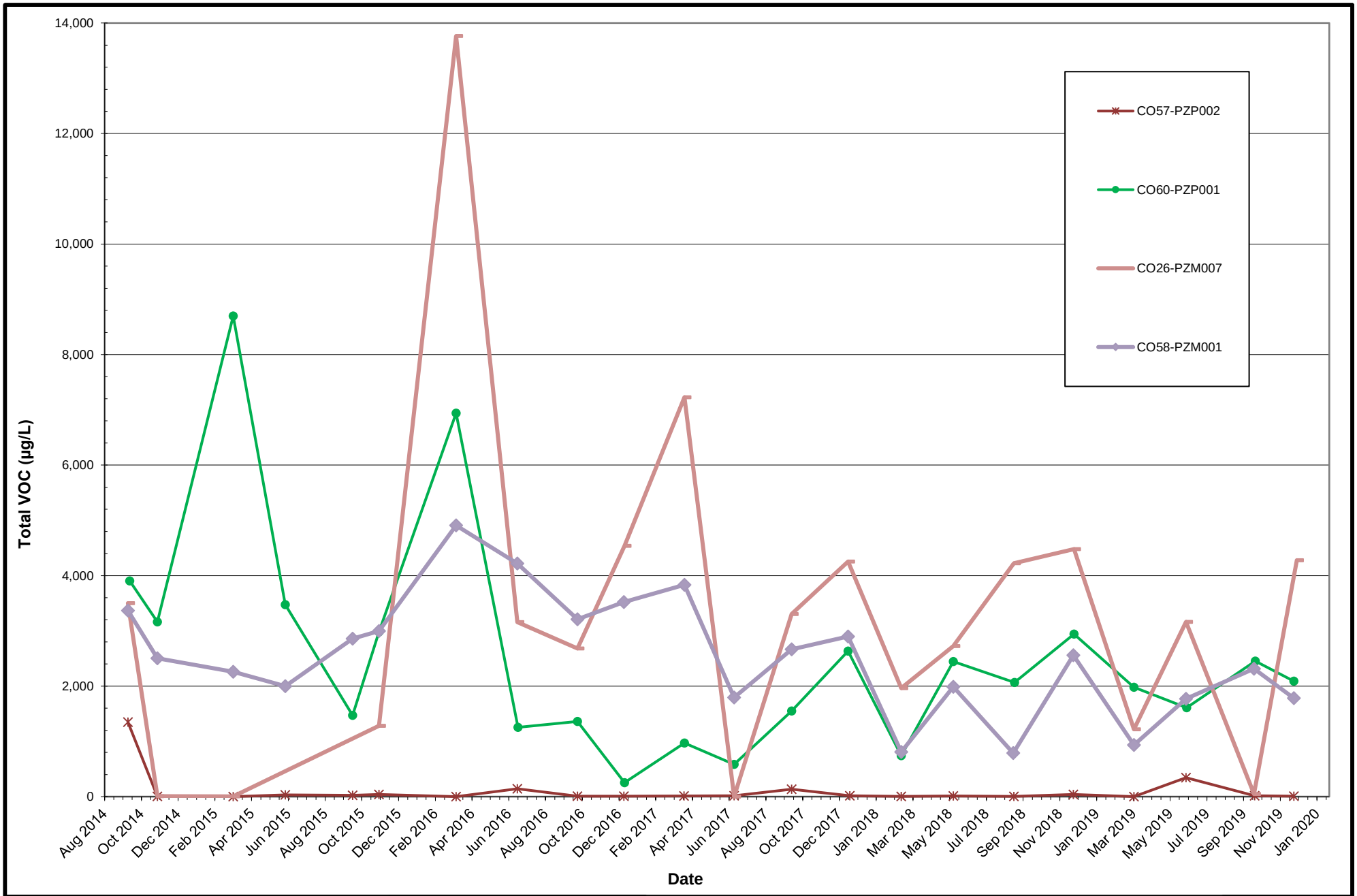
Former Coke Oven Area
Tradepoint Atlantic

Sparrows Point, Maryland

Total VOCs in Cell 5 Groundwater Recovery-Area Monitoring Wells

January 23, 2020

Figure
C5-12



ARM Group LLC
Engineers and Scientists

Former Coke Oven Area
Tradepoint Atlantic

Sparrows Point, Maryland

Total VOCs in Cell 5 Groundwater Perimeter Monitoring Wells

January 23, 2020

Figure
C5-13



N

ARM Group LLC
Engineers and Scientists

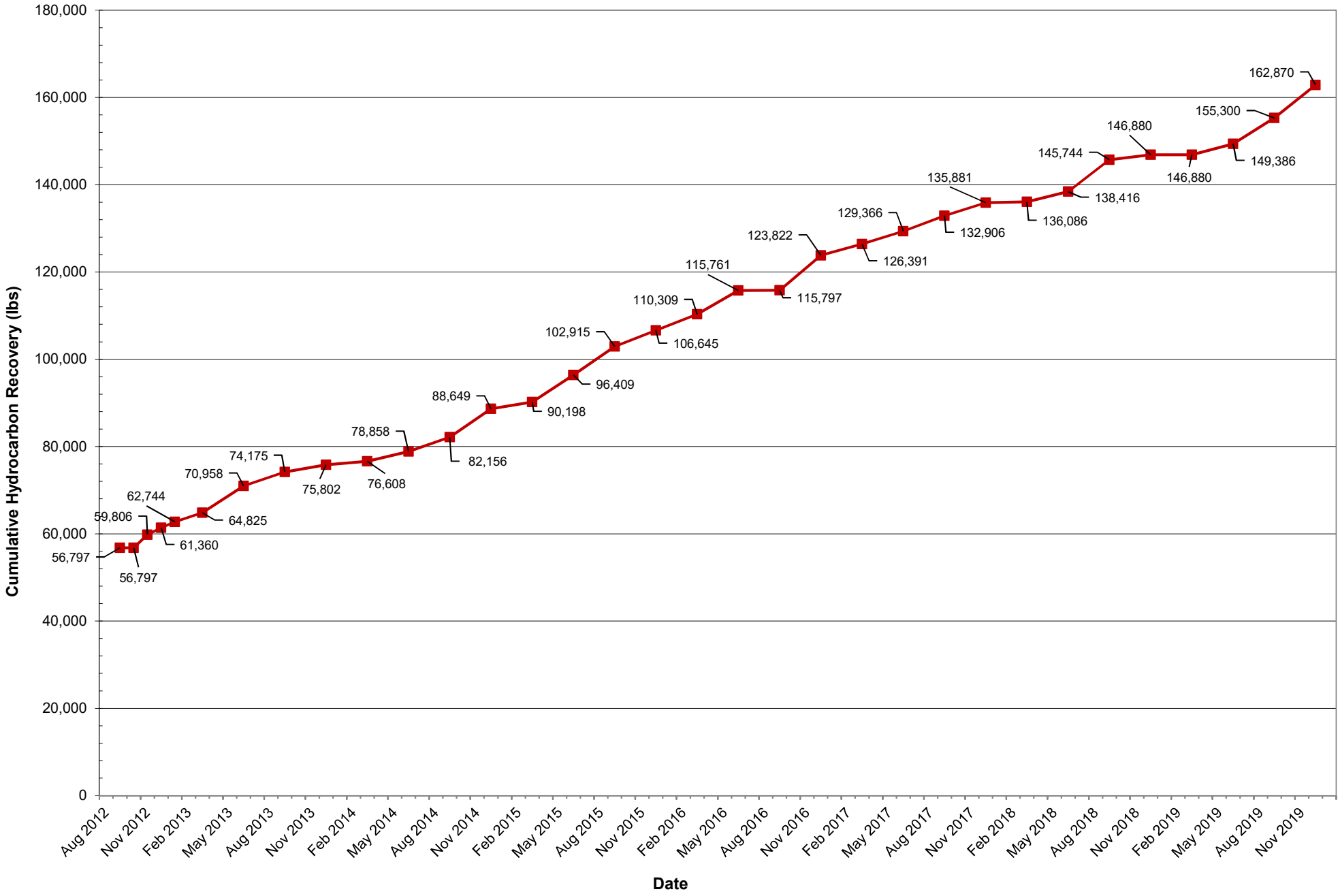
1 inch = 80 feet

0 40 80
Feet

Former Coke Oven Area
Cell 6 System Layout
MPE Monitoring and Recovery System
Date: 1/14/2020

Figure C6-1

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



ARM Group LLC
Engineers and Scientists

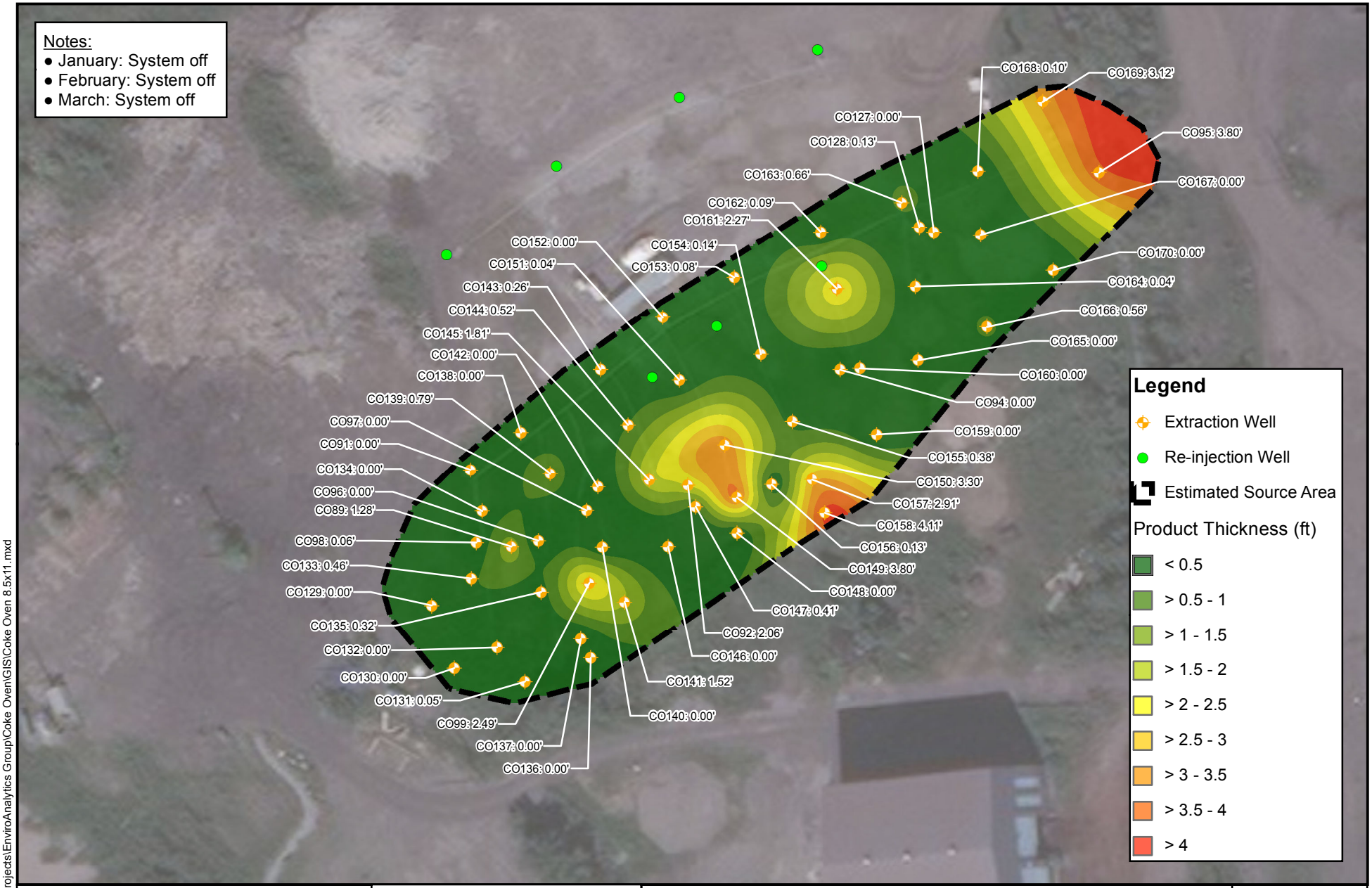
Former Coke Oven Area
Tradepoint Atlantic

Sparrows Point, Maryland

Cumulative Hydrocarbon Recovery (lbs)
Cell 6

January 14, 2020

Figure
C6-2



N

ARM Group LLC
Engineers and Scientists

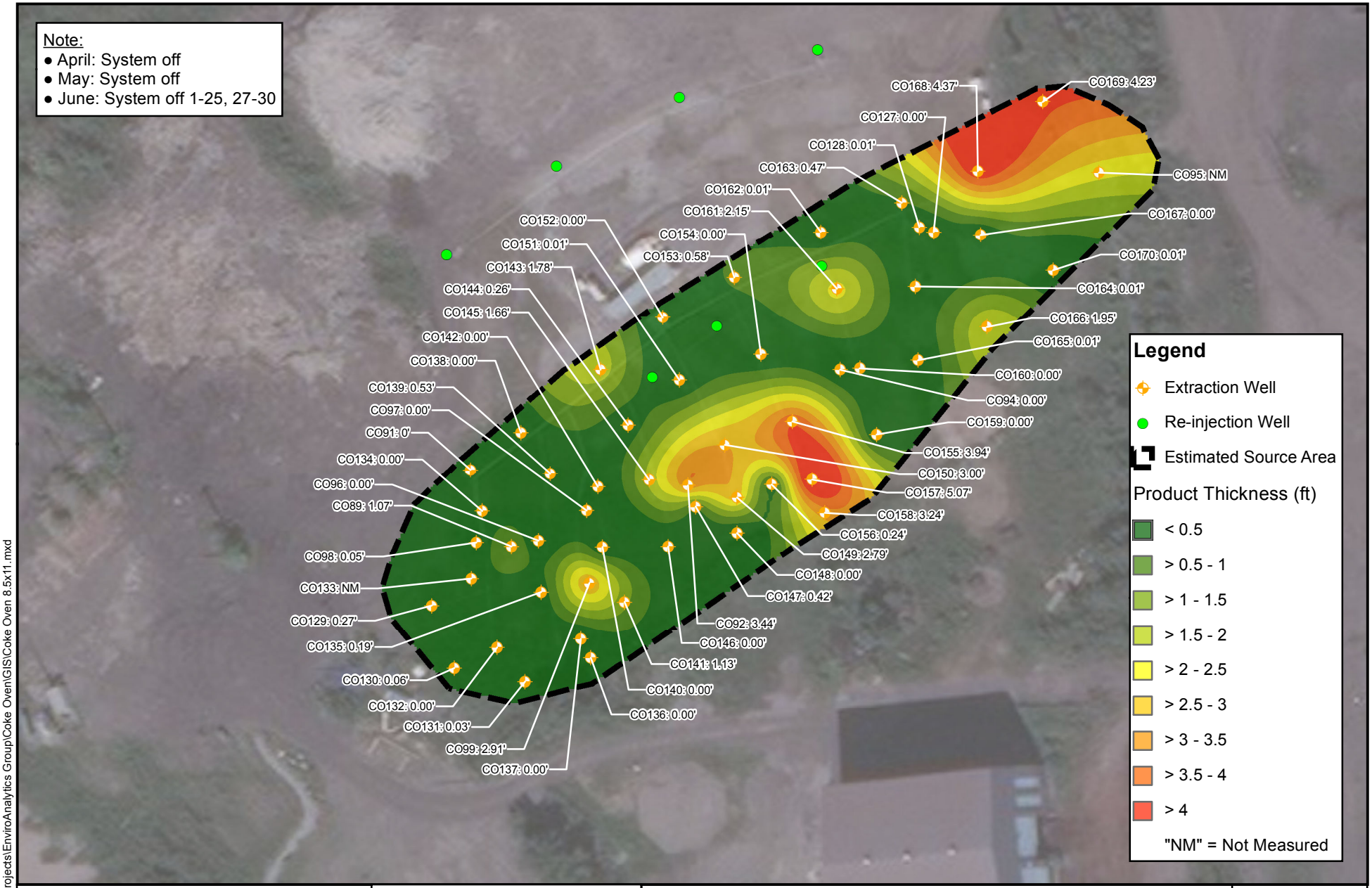
1 inch = 80 feet

0 40 80 Feet

Former Coke Oven Area
Cell 6 Exctraction Wells
Q1 2019 Average Product Thickness (ft)
Date: 1/14/2020

Figure C6-3

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



N

ARM Group LLC
Engineers and Scientists

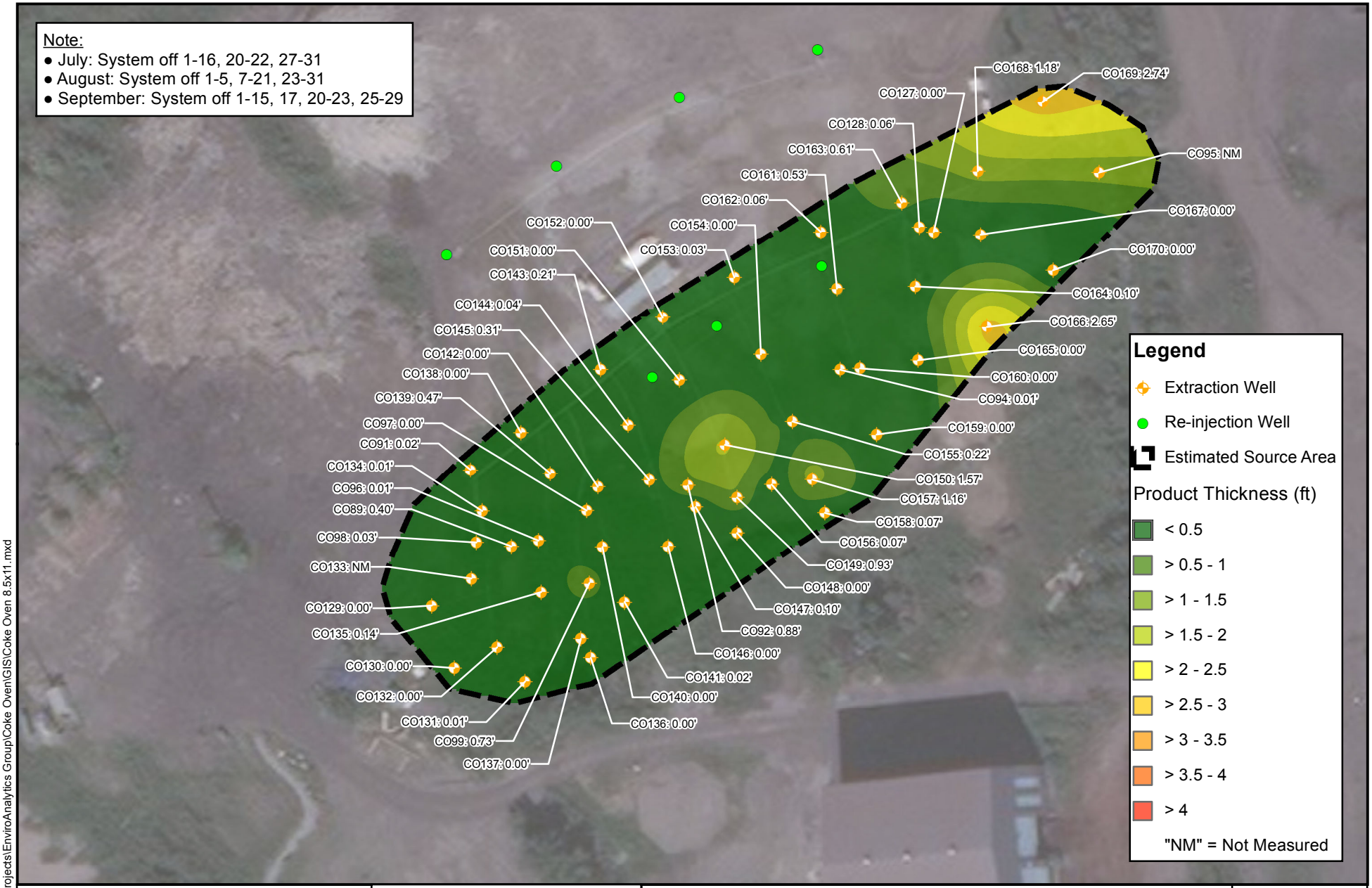
1 inch = 80 feet

0 40 80 Feet

Former Coke Oven Area
Cell 6 Exctraction Wells
Q2 2019 Average Product Thickness (ft)
Date: 1/14/2020

Figure C6-4

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



N

ARM Group LLC
Engineers and Scientists

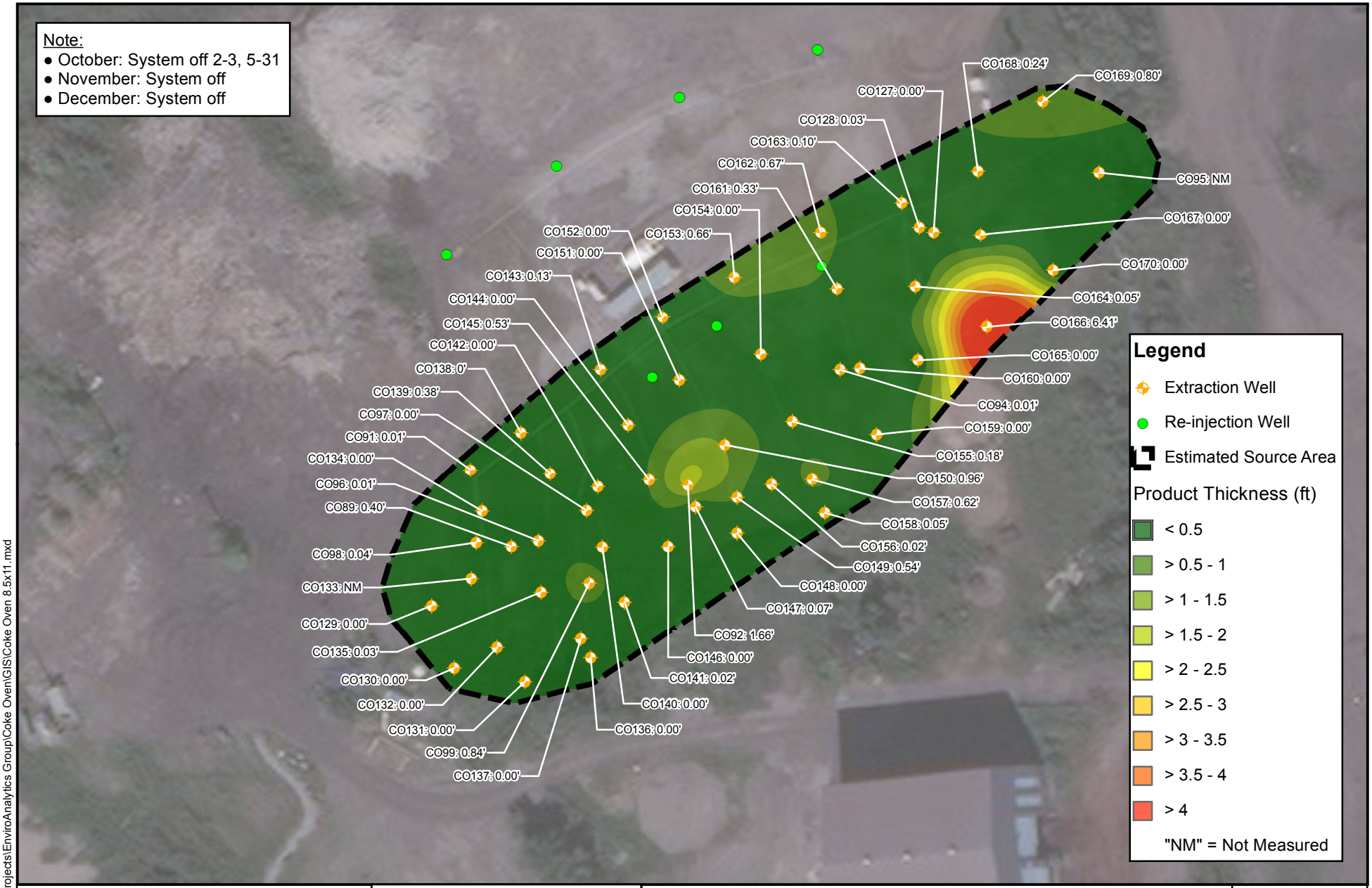
1 inch = 80 feet

0 40 80 Feet

Former Coke Oven Area
Cell 6 Exctraction Wells
Q3 2019 Average Product Thickness (ft)
Date: 1/14/2020

Figure C6-5

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



N

ARM Group LLC
Engineers and Scientists

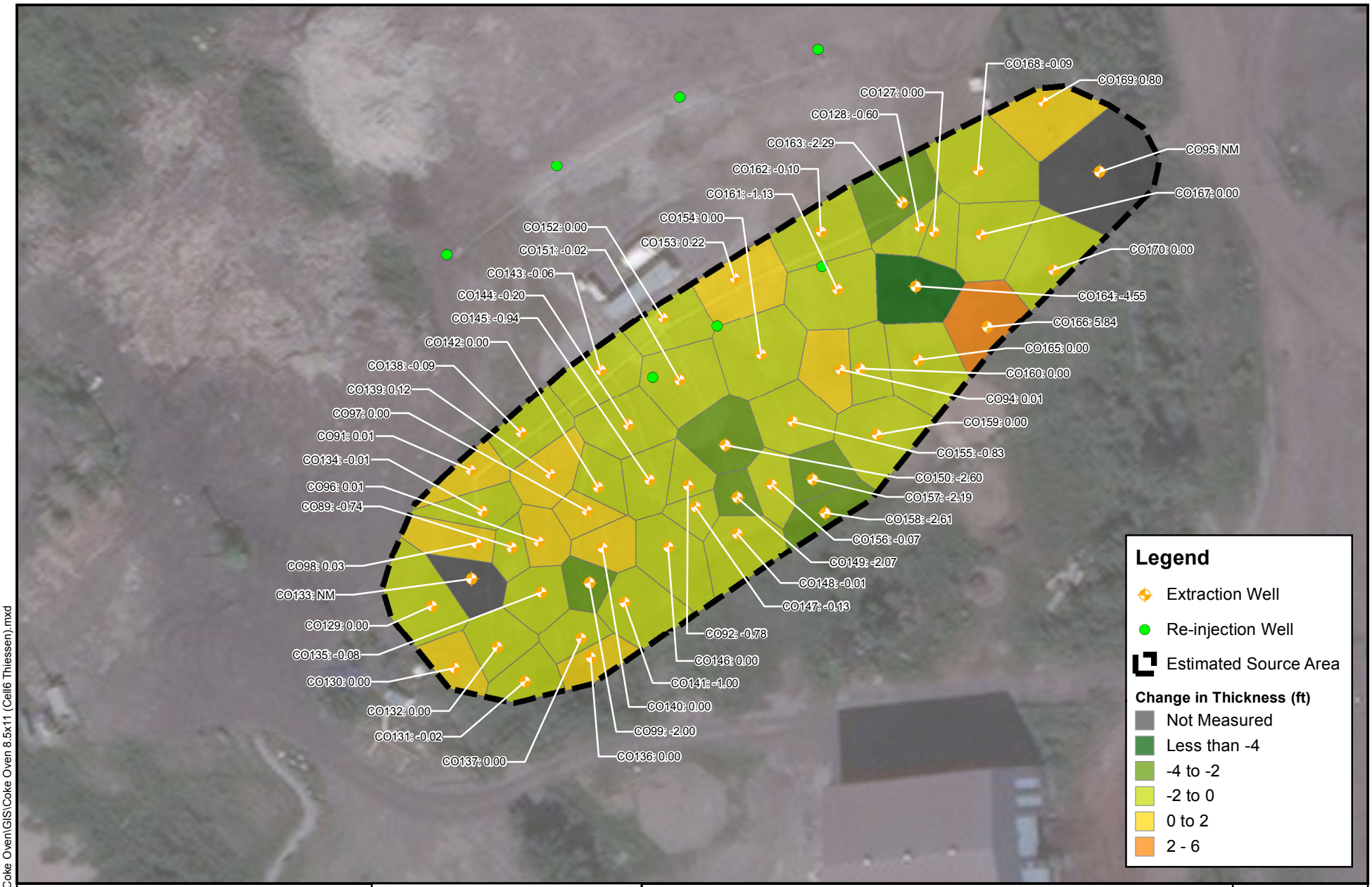
1 inch = 80 feet

0 40 80 Feet

Former Coke Oven Area
Cell 6 Exctraction Wells
Q4 2019 Average Product Thickness (ft)
Date: 1/14/2020

Figure C6-6

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



N

ARM Group LLC
Engineers and Scientists

1 inch = 80 feet

0 40 80 Feet

Former Coke Oven Area: Cell 6
Change in Average Product
Thickness from Q4 2018 to Q4 2019
Date: 1/14/2020

Figure C6-7

P:\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11 (Cell6 Thiessen).mxd

TABLES

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

Cell 1 2019 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	470	383	319	320	373
Average Concentrations	ug/m^3	82,697	448,120	180,153	12,351	723,321
Estimated Hydrocarbon Destruction/Removal Rate	pounds/hour	0.145	0.644	0.215	0.015	0.255
Total VGAC Operating Time	hours	583	1,362	1,595	1,393	4,933
Overall VGAC Operational Time	%	27.0%	62.4%	72.2%	63.1%	56.2%
Estimated Total Hydrocarbons Destroyed/Removed	pounds	85	877	344	21	1,326

NS = Not Sampled

Cell 1 Cumulative Summary of Estimated Hydrocarbon Recovery

August 3, 2010 - December 31, 2019

Parameter	Units	Quantity
Total VGAC Operating Time	hours	38,586
Overall VGAC Operational Time	%	46.8%
Estimated Total Hydrocarbons Destroyed/Removed	pounds	15,295
Estimated Hydrocarbon Destruction/Removal Rate	pounds/hour	0.3964

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

Month		January	February	March
Analyte (TO-15 Organics)	**Units**			
1,1,1-Trichloroethane	ug/m^3	*1340 U*	*1260 U*	*21.7 U*
1,1,2,2-Tetrachloroethane	ug/m^3	*844 U*	*794 U*	*13.6 U*
1,1,2-Trichloroethane	ug/m^3	*671 U*	*632 U*	*10.8 U*
1,1,2-Trichlorotrifluoroethane	ug/m^3	*1890 U*	*1780 U*	*30.5 U*
1,1-Dichloroethane	ug/m^3	*996 U*	*937 U*	*16.1 U*
1,1-Dichloroethene	ug/m^3	*975 U*	*917 U*	*15.7 U*
1,2,3-Trimethylbenzene	ug/m^3	*1210 UN2*	*1140 UN2*	*19.5 UN2*
1,2,4-Trichlorobenzene	ug/m^3	*9120 U*	*8580 U*	*147 U*
1,2,4-Trimethylbenzene	ug/m^3	*1210 U*	*1140 U*	*19.5 U*
1,2-Dibromoethane (EDB)	ug/m^3	*945 U*	*889 U*	*15.2 U*
1,2-Dichlorobenzene	ug/m^3	*1480 U*	*1390 U*	*23.8 U*
1,2-Dichloroethane	ug/m^3	*497 U*	*468 U*	*8.0 U*
1,2-Dichloropropane	ug/m^3	*1140 U*	*1070 U*	*18.3 U*
1,3,5-Trimethylbenzene	ug/m^3	*1210 U*	*1140 U*	**37.1**
1,3-Dichlorobenzene	ug/m^3	*1480 U*	*1390 U*	*23.8 U*
1,4-Dichlorobenzene	ug/m^3	*3700 U*	*3480 U*	*59.7 U*
1,4-Dioxane (p-Dioxane)	ug/m^3	*4430 U*	*4170 U*	*71.4 U*
2-Butanone (MEK)	ug/m^3	*3630 U*	*3410 U*	*58.6 U*
2-Hexanone	ug/m^3	*5030 U*	*4730 U*	*81.2 U*
4-Methyl-2-pentanone (MIBK)	ug/m^3	*5030 U*	*4730 U*	*81.2 U*
Acetone	ug/m^3	*2920 U*	*2740 U*	*47.0 U*
Benzene	ug/m^3	**87600**	**87000**	**50100**
Bromodichloromethane	ug/m^3	*1650 U*	*1550 U*	*26.5 U*
Bromoform	ug/m^3	*6350 U*	*5970 U*	*102 U*
Bromomethane	ug/m^3	*954 U*	*898 U*	*15.4 U*
Carbon disulfide	ug/m^3	*766 U*	*720 U*	*12.4 U*
Carbon tetrachloride	ug/m^3	*1550 U*	*1460 U*	*25.0 U*
Chlorobenzene	ug/m^3	*1130 U*	*1070 U*	*18.3 U*
Chloroethane	ug/m^3	*648 U*	*610 U*	*10.5 U*
Chloroform	ug/m^3	*600 U*	*564 U*	*9.7 U*
Chloromethane	ug/m^3	*508 U*	*478 U*	*8.2 U*
cis-1,2-Dichloroethene	ug/m^3	*975 U*	*917 U*	*15.7 U*
cis-1,3-Dichloropropene	ug/m^3	*1120 U*	*1050 U*	*18.0 U*
Cyclohexane	ug/m^3	*2120 U*	*1990 U*	**160**
Dibromochloromethane	ug/m^3	*2090 U*	*1970 U*	*33.8 U*
Dichlorodifluoromethane	ug/m^3	*1220 U*	*1150 U*	*19.7 U*
Ethylbenzene	ug/m^3	*1070 U*	*1000 U*	**93.4**
Hexachloro-1,3-butadiene	ug/m^3	*6560 U*	*6170 U*	*106 U*
Isopropylbenzene (Cumene)	ug/m^3	*3020 U*	*2840 U*	*48.8 U*
Methylene Chloride	ug/m^3	*4270 U*	*4020 U*	*68.9 U*
Methyl-tert-butyl ether	ug/m^3	*4430 U*	*4170 U*	*71.4 U*
Naphthalene	ug/m^3	*3220 U*	*3030 U*	**81.4 C8**
Styrene	ug/m^3	*1050 U*	*986 U*	*16.9 U*
Tetrachloroethene	ug/m^3	*833 U*	*784 U*	*13.4 U*
Toluene	ug/m^3	**12400**	**1980**	**8070**
trans-1,2-Dichloroethene	ug/m^3	*975 U*	*917 U*	*15.7 U*
trans-1,3-Dichloropropene	ug/m^3	*1120 U*	*1050 U*	*18.0 U*
Trichloroethene	ug/m^3	*660 U*	*621 U*	*10.7 U*
Trichlorofluoromethane	ug/m^3	*1380 U*	*1300 U*	*22.3 U*
Vinyl chloride	ug/m^3	*314 U*	*296 U*	*5.1 U*
Xylene (Total)	ug/m^3	*3210 U*	*3020 U*	**649**
Total Volatile Organics	ug/m^3	**100,000**	**88,980**	**59,110**

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		April	May	June
Analyte (TO-15 Organics)	**Units**			
1,1,1-Trichloroethane	ug/m^3	*42.0 U*	*370 U*	*1590 U*
1,1,2,2-Tetrachloroethane	ug/m^3	*26.4 U*	*233 U*	*998 U*
1,1,2-Trichloroethane	ug/m^3	*21.0 U*	*185 U*	*794 U*
1,1,2-Trichlorotrifluoroethane	ug/m^3	*59.0 U*	*520 U*	*2230 U*
1,1-Dichloroethane	ug/m^3	*31.1 U*	*275 U*	*1180 U*
1,1-Dichloroethene	ug/m^3	*30.5 U*	*269 U*	*1150 U*
1,2,3-Trimethylbenzene	ug/m^3	*37.8 UN2*	*333 UN2*	*1430 UN2*
1,2,4-Trichlorobenzene	ug/m^3	*285 U*	*2520 U*	*10800 U*
1,2,4-Trimethylbenzene	ug/m^3	*37.8 U*	*333 U*	*1430 U*
1,2-Dibromoethane (EDB)	ug/m^3	*29.5 U*	*261 U*	*1120 U*
1,2-Dichlorobenzene	ug/m^3	*46.1 U*	*407 U*	*1750 U*
1,2-Dichloroethane	ug/m^3	*15.5 U*	*137 U*	*588 U*
1,2-Dichloropropane	ug/m^3	*35.5 U*	*313 U*	*1340 U*
1,3,5-Trimethylbenzene	ug/m^3	*37.8 U*	*333 U*	*1430 U*
1,3-Dichlorobenzene	ug/m^3	*46.1 U*	*407 U*	*1750 U*
1,4-Dichlorobenzene	ug/m^3	*116 U*	*1020 U*	*4380 U*
1,4-Dioxane (p-Dioxane)	ug/m^3	*138 U*	*1220 U*	*13100 U*
2-Butanone (MEK)	ug/m^3	*113 U*	*1000 U*	*4290 U*
2-Hexanone	ug/m^3	*157 U*	*1390 U*	*5950 U*
4-Methyl-2-pentanone (MIBK)	ug/m^3	*157 U*	*1390 U*	*5950 U*
Acetone	ug/m^3	*91.1 U*	*804 U*	*3450 U*
Benzene	ug/m^3	**894000**	**205000**	**221000**
Bromodichloromethane	ug/m^3	*51.4 U*	*454 U*	*1950 U*
Bromoform	ug/m^3	*198 U*	*1750 U*	*7510 U*
Bromomethane	ug/m^3	*29.8 U*	*263 U*	*1130 U*
Carbon disulfide	ug/m^3	*23.9 U*	*211 U*	*905 U*
Carbon tetrachloride	ug/m^3	*48.4 U*	*427 U*	*1830 U*
Chlorobenzene	ug/m^3	*35.4 U*	*312 U*	*1340 U*
Chloroethane	ug/m^3	*20.3 U*	*179 U*	*767 U*
Chloroform	ug/m^3	*18.7 U*	*165 U*	*709 U*
Chloromethane	ug/m^3	*15.9 U*	*140 U*	*601 U*
cis-1,2-Dichloroethene	ug/m^3	*30.5 U*	*269 U*	*1150 U*
cis-1,3-Dichloropropene	ug/m^3	*34.9 U*	*308 U*	*1320 U*
Cyclohexane	ug/m^3	*66.2 U*	*584 U*	*2500 U*
Dibromochloromethane	ug/m^3	*65.4 U*	*577 U*	*2470 U*
Dichlorodifluoromethane	ug/m^3	*38.2 U*	*337 U*	*1440 U*
Ethylbenzene	ug/m^3	**170**	*295 U*	*1260 U*
Hexachloro-1,3-butadiene	ug/m^3	*205 U*	*1810 U*	*7750 U*
Isopropylbenzene (Cumene)	ug/m^3	*94.5 U*	*834 U*	*3580 U*
Methylene Chloride	ug/m^3	*133 U*	*1180 U*	*12600 U*
Methyl-tert-butyl ether	ug/m^3	*138 U*	*1220 U*	*5240 U*
Naphthalene	ug/m^3	*101 U*	*887 U*	*3800 U*
Styrene	ug/m^3	*32.7 U*	*289 U*	*1240 U*
Tetrachloroethene	ug/m^3	*26.0 U*	*230 U*	*986 U*
Toluene	ug/m^3	**14700**	**2840**	**3670**
trans-1,2-Dichloroethene	ug/m^3	*30.5 U*	*269 U*	*1150 U*
trans-1,3-Dichloropropene	ug/m^3	*34.9 U*	*308 U*	*1320 U*
Trichloroethene	ug/m^3	*20.6 U*	*182 U*	*781 U*
Trichlorofluoromethane	ug/m^3	*43.1 U*	*380 U*	*1630 U*
Vinyl chloride	ug/m^3	*9.8 U*	*86.7 U*	*372 U*
Xylene (Total)	ug/m^3	**561**	**2420**	*3790 U*
Total Volatile Organics	ug/m^3	**909,431**	**210,260**	**224,670**

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
Analyte (TO-15 Organics)	**Units**			
1,1,1-Trichloroethane	ug/m^3	**99.3**	*440 U*	**62.7**
1,1,2,2-Tetrachloroethane	ug/m^3	*31.2 U*	*277 U*	*33.7 U*
1,1,2-Trichloroethane	ug/m^3	*24.8 U*	*220 U*	*26.8 U*
1,1,2-Trichlorotrifluoroethane	ug/m^3	*69.7 U*	*619 U*	*75.3 U*
1,1-Dichloroethane	ug/m^3	*36.8 U*	*327 U*	*39.8 U*
1,1-Dichloroethene	ug/m^3	*36.0 U*	*320 U*	*38.9 U*
1,2,3-Trimethylbenzene	ug/m^3	*44.7 UN2*	*396 UN2*	*48.3 U*
1,2,4-Trichlorobenzene	ug/m^3	*337 U*	*2990 U*	*364 U*
1,2,4-Trimethylbenzene	ug/m^3	*44.7 U*	*396 U*	*48.3 U*
1,2-Dibromoethane (EDB)	ug/m^3	*34.9 U*	*310 U*	*37.7 U*
1,2-Dichlorobenzene	ug/m^3	*54.5 U*	*484 U*	*58.9 U*
1,2-Dichloroethane	ug/m^3	*18.4 U*	*163 U*	*19.9 U*
1,2-Dichloropropane	ug/m^3	*42.0 U*	*373 U*	*45.4 U*
1,3,5-Trimethylbenzene	ug/m^3	*44.7 U*	*396 U*	*48.3 U*
1,3-Dichlorobenzene	ug/m^3	*54.5 U*	*484 U*	*58.9 U*
1,4-Dichlorobenzene	ug/m^3	*137 U*	*1210 U*	*148 U*
1,4-Dioxane (p-Dioxane)	ug/m^3	*164 U*	*1450 U*	*177 U*
2-Butanone (MEK)	ug/m^3	**815**	*1190 U*	*145 U*
2-Hexanone	ug/m^3	*186 U*	*1650 U*	*201 U*
4-Methyl-2-pentanone (MIBK)	ug/m^3	*186 U*	*1650 U*	*201 U*
Acetone	ug/m^3	**1410**	*956 U*	**232**
Benzene	ug/m^3	**504000**	**19300**	**4360**
Bromodichloromethane	ug/m^3	*60.8 U*	*540 U*	*65.7 U*
Bromoform	ug/m^3	*235 U*	*2080 U*	*254 U*
Bromomethane	ug/m^3	*35.3 U*	*313 U*	*38.1 U*
Carbon disulfide	ug/m^3	*28.3 U*	*251 U*	*30.6 U*
Carbon tetrachloride	ug/m^3	*57.2 U*	*508 U*	*61.8 U*
Chlorobenzene	ug/m^3	*41.8 U*	*371 U*	*45.2 U*
Chloroethane	ug/m^3	*59.9 U*	*213 U*	*25.9 U*
Chloroform	ug/m^3	*22.2 U*	*197 U*	*24.0 U*
Chloromethane	ug/m^3	*18.8 U*	*167 U*	*20.3 U*
cis-1,2-Dichloroethene	ug/m^3	*36.0 U*	*320 U*	*38.9 U*
cis-1,3-Dichloropropene	ug/m^3	*41.3 U*	*366 U*	*44.6 U*
Cyclohexane	ug/m^3	*78.2 U*	*694 U*	*84.5 U*
Dibromochloromethane	ug/m^3	*77.3 U*	*686 U*	*83.6 U*
Dichlorodifluoromethane	ug/m^3	*45.1 U*	*401 U*	*48.8 U*
Ethylbenzene	ug/m^3	**136**	*350 U*	*42.6 U*
Hexachloro-1,3-butadiene	ug/m^3	*242 U*	*2150 U*	*262 U*
Isopropylbenzene (Cumene)	ug/m^3	*112 U*	*992 U*	*121 U*
Methylene Chloride	ug/m^3	*158 U*	*1400 U*	*170 U*
Methyl-tert-butyl ether	ug/m^3	*164 U*	*1450 U*	*177 U*
Naphthalene	ug/m^3	*119 U*	*1060 U*	*128 U*
Styrene	ug/m^3	*38.7 U*	*344 U*	*41.8 U*
Tetrachloroethene	ug/m^3	*30.8 U*	*273 U*	*33.3 U*
Toluene	ug/m^3	**3480**	**4200**	**240**
trans-1,2-Dichloroethene	ug/m^3	*36.0 U*	*320 U*	*38.9 U*
trans-1,3-Dichloropropene	ug/m^3	*41.3 U*	*366 U*	*44.6 U*
Trichloroethene	ug/m^3	*24.4 U*	*217 U*	*26.4 U*
Trichlorofluoromethane	ug/m^3	*51.0 U*	*452 U*	*55.1 U*
Vinyl chloride	ug/m^3	*11.6 U*	*103 U*	*12.6 U*
Xylene (Total)	ug/m^3	**504**	**1620**	*128 U*
Total Volatile Organics	ug/m^3	**510,444**	**25,120**	**4,895**

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		October	November	December
Analyte (TO-15 Organics)	**Units**			
1,1,1-Trichloroethane	ug/m^3	**50.1**	*55.9 U*	**17**
1,1,2,2-Tetrachloroethane	ug/m^3	*23.5 U*	*35.2 U*	*1.0 U*
1,1,2-Trichloroethane	ug/m^3	*18.6 U*	*28.0 U*	*0.80 U*
1,1,2-Trichlorotrifluoroethane	ug/m^3	*52.4 U*	*78.6 U*	*2.2 U*
1,1-Dichloroethane	ug/m^3	*27.7 U*	*41.5 U*	*1.2 U*
1,1-Dichloroethene	ug/m^3	*27.1 U*	*40.6 U*	*1.2 U*
1,2,3-Trimethylbenzene	ug/m^3	*33.6 U*	*50.3 U*	**4.8**
1,2,4-Trichlorobenzene	ug/m^3	*253 U*	*380 U*	*10.9 U*
1,2,4-Trimethylbenzene	ug/m^3	*33.6 U*	*50.3 U*	**8.8**
1,2-Dibromoethane (EDB)	ug/m^3	*26.2 U*	*39.4 U*	*1.1 U*
1,2-Dichlorobenzene	ug/m^3	*41.0 U*	*61.5 U*	*1.8 U*
1,2-Dichloroethane	ug/m^3	*13.8 U*	*20.7 U*	*0.59 U*
1,2-Dichloropropane	ug/m^3	*31.6 U*	*47.3 U*	*1.4 U*
1,3,5-Trimethylbenzene	ug/m^3	*33.6 U*	*50.3 U*	**22.3**
1,3-Dichlorobenzene	ug/m^3	*41.0 U*	*61.5 U*	*1.8 U*
1,4-Dichlorobenzene	ug/m^3	*103 U*	*154 U*	*4.4 U*
1,4-Dioxane (p-Dioxane)	ug/m^3	*123 U*	*184 U*	*5.3 U*
2-Butanone (MEK)	ug/m^3	*101 U*	*151 U*	**10**
2-Hexanone	ug/m^3	*140 U*	*210 U*	*6.0 U*
4-Methyl-2-pentanone (MIBK)	ug/m^3	*140 U*	*210 U*	*6.0 U*
Acetone	ug/m^3	*81.0 U*	*121 U*	**32.1**
Benzene	ug/m^3	**2360**	**20800**	**10600**
Bromodichloromethane	ug/m^3	*45.7 U*	*68.5 U*	*2.0 U*
Bromoform	ug/m^3	*176 U*	*265 U*	*7.6 U*
Bromomethane	ug/m^3	*26.5 U*	*39.8 U*	*1.1 U*
Carbon disulfide	ug/m^3	*21.3 U*	*31.9 U*	*0.91 U*
Carbon tetrachloride	ug/m^3	*43.0 U*	*64.5 U*	*1.8 U*
Chlorobenzene	ug/m^3	*31.4 U*	*47.2 U*	*1.3 U*
Chloroethane	ug/m^3	*18.0 U*	*27.0 U*	*0.77 U*
Chloroform	ug/m^3	*16.7 U*	*25.0 U*	*0.71 U*
Chloromethane	ug/m^3	*14.1 U*	*21.2 U*	*0.60 U*
cis-1,2-Dichloroethene	ug/m^3	*27.1 U*	*40.6 U*	*1.2 U*
cis-1,3-Dichloropropene	ug/m^3	*31.0 U*	*46.5 U*	*1.3 U*
Cyclohexane	ug/m^3	*58.8 U*	*88.2 U*	*2.5 U*
Dibromochloromethane	ug/m^3	*58.1 U*	*87.2 U*	*2.5 U*
Dichlorodifluoromethane	ug/m^3	*33.9 U*	*50.9 U*	**3.2**
Ethylbenzene	ug/m^3	*29.7 U*	*44.5 U*	**39.4**
Hexachloro-1,3-butadiene	ug/m^3	*182 U*	*273 U*	*7.8 U*
Isopropylbenzene (Cumene)	ug/m^3	*84.0 U*	*126 U*	*3.6 U*
Methylene Chloride	ug/m^3	*119 U*	*178 U*	**6.7**
Methyl-tert-butyl ether	ug/m^3	*123 U*	*184 U*	*5.3 U*
Naphthalene	ug/m^3	*89.4 U*	*134 U*	*3.8 U*
Styrene	ug/m^3	*29.1 U*	*43.6 U*	**5.1**
Tetrachloroethene	ug/m^3	*23.2 U*	*34.7 U*	*0.99 U*
Toluene	ug/m^3	**125**	**240**	**2340**
trans-1,2-Dichloroethene	ug/m^3	*27.1 U*	*40.6 U*	*1.2 U*
trans-1,3-Dichloropropene	ug/m^3	*31.0 U*	*46.5 U*	*1.3 U*
Trichloroethene	ug/m^3	*18.3 U*	*27.5 U*	*0.79 U*
Trichlorofluoromethane	ug/m^3	*38.3 U*	*57.5 U*	**3.1**
Vinyl chloride	ug/m^3	*8.7 U*	*13.1 U*	*0.37 U*
Xylene (Total)	ug/m^3	*89.0 U*	*134 U*	**386**
Total Volatile Organics	ug/m^3	**2,535**	**21,040**	**13,479**

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		3/26/2019	6/18/2019	10/7/2019	12/12/2019
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,1-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2,3-Trichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
1,2-Dibromoethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,4-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
2-Butanone (MEK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
2-Hexanone	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
Acetone	µg/L	**29.3**	*50.0 U*	*50.0 U*	**37.0**
Acrylonitrile	µg/L	*20.0 U*	*20.0 U*	*20.0 U*	*20.0 U*
Benzene	µg/L	**127,000**	**148,000**	**143,000**	**141,000**
Bromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromodichloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromoform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	**6.3**
Carbon disulfide	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Carbon tetrachloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Ethylbenzene	µg/L	**252.00**	**293.00**	**257**	**350**
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Methylene Chloride	µg/L	**4.3**	*5.0 U*	*5.0 U*	*5.0 U*
Styrene	µg/L	**3.0**	**3.2**	**3.8**	**9.2**
Tetrachloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Toluene	µg/L	**86**	**144**	**144**	**155**
trans-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
Trichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichlorofluoromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Vinyl Acetate	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
Vinyl chloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Xylenes	µg/L	**206**	**357**	**321**	**469**
Total Volatile Organics	µg/L	**127,581**	**148,797**	**143,726**	**142,027**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**231**	**218**	**244**	**318**

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		3/26/2019	6/18/2019	10/7/2019	12/12/2019
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,1-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2,3-Trichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
1,2-Dibromoethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,4-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
2-Butanone (MEK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
2-Hexanone	µg/L	**3.6**	**4.2**	*50.0 U*	*50.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
Acetone	µg/L	**94.0**	**190**	**66.0**	**75.8**
Acrylonitrile	µg/L	*20.0 U*	*20.0 U*	*20.0 U*	*20.0 U*
Benzene	µg/L	**338,000**	**670,000**	**596,000**	**241,000**
Bromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromodichloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromoform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	**8.5**
Carbon disulfide	µg/L	**1.7**	*5.0 U*	**2.7**	*5.0 U*
Carbon tetrachloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloromethane	µg/L	*5.0 U*	**4.2**	*5.0 U*	*5.0 U*
cis-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Ethylbenzene	µg/L	**63.5**	**73.8**	**89.5**	**94.3**
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Methylene Chloride	µg/L	**4.8**	*5.0 U*	*5.0 U*	*5.0 U*
Styrene	µg/L	**3.3**	*5.0 U*	**10.4**	**25.3**
Tetrachloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Toluene	µg/L	**5,360**	**15,300**	**20,000**	**8,660**
trans-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
Trichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichlorofluoromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Vinyl Acetate	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*5.0 U*
Vinyl chloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Xylenes	µg/L	**1,480**	**1,740**	**2,170**	**2,340**
Total Volatile Organics	µg/L	**345,011**	**687,312**	**618,339**	**252,204**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**221**	**189**	**230**	**211**

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		3/26/2019	6/17/2019	10/7/2019	12/12/2019
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,1-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2,3-Trichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
1,2-Dibromoethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,4-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
2-Butanone (MEK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
2-Hexanone	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
Acetone	µg/L	*50.0 U*	**153**	*50.0 U*	**40.3**
Acrylonitrile	µg/L	*20.0 U*	*20.0 U*	*20.0 U*	*20.0 U*
Benzene	µg/L	**162,000**	**247,000**	**184,000**	**148,000**
Bromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromodichloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromoform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	**7.1**
Carbon disulfide	µg/L	**9.9**	**12.7**	**19.5**	**6.6**
Carbon tetrachloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Ethylbenzene	µg/L	**752**	**1,250**	**1,350**	**1,210**
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Methylene Chloride	µg/L	**4.0**	*5.0 U*	*5.0 U*	*5.0 U*
Styrene	µg/L	**832**	**1,300**	**1,620**	**1,320**
Tetrachloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Toluene	µg/L	**42,500**	**69,900**	**64,500**	**54,000**
trans-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
Trichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichlorofluoromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Vinyl Acetate	µg/L	*50.0 U*	*50.0 U*	*5.0 U*	*5.0 U*
Vinyl chloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Xylenes	µg/L	**9,840**	**16,900**	**22,500**	**12,500**
Total Volatile Organics	µg/L	**215,938**	**336,516**	**273,990**	**217,084**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**1,670**	**1,900**	**14,100**	**4,800**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-1
Cell 2 Monitoring 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	none	Hollow Stem Auger	563239.965	1454916.917	5.12	Unknown	15.00	5.00	10.00	3-15	1-3	0-1
CO27-PZM046	none	Hollow Stem Auger	563239.958	1454913.372	5.17	Unknown	49.00	39.00	10.00	37-49	34-37	0-34
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 C2-2
Well Groundwater Elevations

Well ID	Temporary Well ID	Top of PVC Elevation (ft)	Aquifer	Well Depth from Ground Surface (ft)	3/25/19 - 3/26/19		6/18/19 - 6/20/19		9/25/2019		12/13/19 - 12/19/19	
					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	none	5.12	S		4.89	0.23	3.99	1.13	4.50	0.62	5.32	-0.20
CO27-PZM046	none	5.17	I		7.73	-2.56	7.38	-2.21	8.65	-3.48	9.18	-4.01
CO36-PZM008	Cell 2 - MW1 (S)	6.94	S	15.00	7.07	-0.13	6.36	0.58	6.47	0.47	7.23	-0.29
CO36-PZM043	Cell 2 - MW8 (I)	6.92	I	50.00	7.64	-0.72	7.09	-0.17	7.11	-0.19	7.85	-0.93
CO37-PZM038	Cell 2 - MW9 (I)	12.12	I	50.00	12.11	0.01	12.23	-0.11	12.50	-0.38	12.77	-0.65
CO38-PZM006	Cell 2 - MW3 (S)	6.75	S	13.00	6.45	0.30	6.12	0.63	6.06	0.69	6.71	0.04
CO38-PZM043	Cell 2 - MW10 (I)	6.65	I	50.00	7.41	-0.76	3.88	2.77	7.05	-0.4	7.57	-0.92
CO39-PZM007	Cell 2 - MW4 (S)	7.75	S	15.00	5.21	2.54	6.72	1.03	6.90	0.85	6.12	1.63
CO39-PZM042	Cell 2 - MW11 (I)	7.91	I	50.00	8.08	-0.17	8.23	-0.32	8.30	-0.39	8.62	-0.71
CO40-PZM008	Cell 2 - MW5 (S)	7.47	S	15.00	6.44	1.03	6.94	0.53	6.60	0.87	6.41	1.06
CO41-PZM001	Cell 2 - MW6 (S)	13.57	S	15.00	11.73	1.84	12.42	1.15	12.45	1.12	12.49	1.08
CO41-PZM036	Cell 2 - MW12 (I)	13.60	I	50.00	14.53	-0.93	13.33	0.27	13.60	0.00	13.99	-0.39
CO42-PZM004	Cell 2 - MW7 (S)	10.83	S	15.00	5.43	5.40	7.92	2.91	8.55	2.28	7.21	3.62
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 well

S = Water table well

NM = Not Measured

Table C2-3: 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	521,695	507,297	620,668	550,414	2,200,074
Extracted Total Concentrations	lbs/gal	2.93E-03	2.90E-03	2.57E-03	2.22E-03	1.06E-02
Effluent Total Concentrations	lbs/gal	1.47E-05	4.02E-06	5.05E-06	1.42E-06	2.52E-05
Extracted Hydrocarbons	lbs	1,530	1,473	1,596	1,222	5,821
Effluent Hydrocarbons	lbs	7.66	2.04	3.13	0.78	13.61
Total Hydrocarbons Removed	lbs	1,522	1,470	1,593	1,221	5,807

Table C2-4
Cell 2 Groundwater Analytical Results

Sample ID		CO27-PZM012			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/26/2019	6/19/2019	10/14/2019	12/19/2019
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,1-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2,3-Trichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
1,2-Dibromoethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,4-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
2-Butanone (MEK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
2-Hexanone	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
Acetone	µg/L	**16.7**	**27.4**	*50.0 U*	*50.0 U*
Acrylonitrile	µg/L	*20.0 U*	*20.0 U*	*20.0 U*	*20.0 U*
Benzene	µg/L	**3,630**	**13,500**	**13,000**	**11,600**
Bromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromodichloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromoform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 UB*
Carbon disulfide	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Carbon tetrachloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 UCH*
cis-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Ethylbenzene	µg/L	**35.2**	**121**	**141**	**162**
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Methylene Chloride	µg/L	**4.1**	*5.0 U*	*5.0 U*	*5.0 U*
Styrene	µg/L	**32.8**	**126**	**138**	**176**
Tetrachloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Toluene	µg/L	**854**	**4,390**	**3,980**	**4,240**
trans-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
Trichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichlorofluoromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Vinyl Acetate	µg/L	*50.0 U*	*50.0 U*	*5.0 U*	*5.0 U*
Vinyl chloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Xylenes	µg/L	**308**	**1,070**	**1,280**	**1,390**
Total Volatile Organics	µg/L	**4,881**	**19,234**	**18,539**	**17,568**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**316**	**667**	**905**	**1,140**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-4
Cell 2 Groundwater Analytical Results

Sample ID		CO27-PZM046			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/26/2019	6/19/2019	10/14/2019	12/19/2019
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
1,1,1-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
1,1,2,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
1,1,2-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
1,1-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
1,1-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
1,2,3-Trichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
1,2-Dibromo-3-chloropropane	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*5,000 U*
1,2-Dibromoethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
1,2-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
1,2-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
1,2-Dichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
1,4-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
2-Butanone (MEK)	µg/L	*50.0 U*	**11.2**	*50.0 U*	*10,000 U*
2-Hexanone	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*10,000 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*10,000 U*
Acetone	µg/L	**35.6**	**180**	*50.0 U*	*10,000 U*
Acrylonitrile	µg/L	*20.0 U*	*20.0 U*	*20.0 U*	*4,000 U*
Benzene	µg/L	**191,000**	**172,000**	**42,200**	**29,800**
Bromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
Bromodichloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
Bromoform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
Bromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 UB*
Carbon disulfide	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
Carbon tetrachloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
Chlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
Chloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 UCH*
Chloroform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
Chloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
cis-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
cis-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
Dibromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
Dibromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
Ethylbenzene	µg/L	**552**	**443**	**272**	*1,000 U*
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*50,000 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
Methylene Chloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
Styrene	µg/L	**141**	**85.5**	**277**	*1,000 U*
Tetrachloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
Toluene	µg/L	**35,100**	**30,900**	**9,880**	**4,850**
trans-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
trans-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
trans-1,4-Dichloro-2-butene	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*5,000 U*
Trichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
Trichlorofluoromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
Vinyl Acetate	µg/L	*50.0 U*	*50.0 U*	*5.0 U*	*1,000 U*
Vinyl chloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*1,000 U*
Xylenes	µg/L	**7,360**	**7,110**	**2,020**	**2,200**
Total Volatile Organics	µg/L	**234,189**	**210,730**	**54,649**	**36,850**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**14,100**	**1,400**	**1,330**	**11,200**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-4
Cell 2 Groundwater Analytical Results

Sample ID		CO36-PZM008			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/25/2019	6/19/2019	9/26/2019	12/13/2019
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
1,1,1-Trichloroethane	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
1,1,2-Trichloroethane	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethane	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethene	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
1,2,3-Trichloropropane	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*25.0 U*	*5.0 U*	*25.0 U*	*25.0 U*
1,2-Dibromoethane	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
1,2-Dichlorobenzene	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloroethane	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloropropane	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
1,4-Dichlorobenzene	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
2-Butanone (MEK)	µg/L	*50.0 U*	*10.0 U*	*50.0 U*	*50.0 U*
2-Hexanone	µg/L	*50.0 U*	*10.0 U*	*50.0 U*	*50.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50.0 U*	*10.0 U*	*50.0 U*	*50.0 U*
Acetone	µg/L	**25.2**	**193**	*50.0 U*	**42.9**
Acrylonitrile	µg/L	*20.0 U*	*4.0 U*	*20.0 U*	*20.0 U*
Benzene	µg/L	**5,380**	**11,200**	**9,710**	**6,780**
Bromochloromethane	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
Bromodichloromethane	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
Bromoform	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
Bromomethane	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 UB*
Carbon disulfide	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
Carbon tetrachloride	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
Chlorobenzene	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
Chloroethane	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
Chloroform	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
Chloromethane	µg/L	*5.0 U*	**1.9**	*5.0 U*	*5.0 U*
cis-1,2-Dichloroethene	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
cis-1,3-Dichloropropene	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
Dibromochloromethane	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
Dibromomethane	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
Ethylbenzene	µg/L	**15.3**	**44.6**	**47.4**	**30.4**
Iodomethane	µg/L	*250 U*	*50.0 U*	*250 UCH*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
Methylene Chloride	µg/L	**4.4**	*1.0 U*	*5.0 U*	*5.0 U*
Styrene	µg/L	**5.3**	**12.5**	**11.6**	**9.1**
Tetrachloroethene	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
Toluene	µg/L	**1,160**	**2,320**	**2,360**	**1,700**
trans-1,2-Dichloroethene	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
trans-1,3-Dichloropropene	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*25.0 U*	*5.0 U*	*25.0 U*	*25.0 U*
Trichloroethene	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
Trichlorofluoromethane	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
Vinyl Acetate	µg/L	*50.0 U*	*10.0 U*	*5.0 U*	*5.0 U*
Vinyl chloride	µg/L	*5.0 U*	*1.0 U*	*5.0 U*	*5.0 U*
Xylenes	µg/L	**536**	**763**	**802**	**816**
Total Volatile Organics	µg/L	**7,126**	**14,535**	**12,931**	**9,378**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**248**	**343**	**462**	**424**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-4
Cell 2 Groundwater Analytical Results

Sample ID		CO36-PZM043			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/25/2019	6/19/2019	9/26/2019	12/13/2019
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,1-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2,3-Trichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
1,2-Dibromoethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,4-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
2-Butanone (MEK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
2-Hexanone	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
Acetone	µg/L	**14.9**	**196**	*50.0 U*	**50.5**
Acrylonitrile	µg/L	*20.0 U*	*20.0 U*	*20.0 U*	*20.0 U*
Benzene	µg/L	**22,200**	**22,400**	**20,200**	**16,400**
Bromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromodichloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromoform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 UB*
Carbon disulfide	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Carbon tetrachloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloromethane	µg/L	*5.0 U*	**3.4**	*5.0 U*	*5.0 U*
cis-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Ethylbenzene	µg/L	**76.1**	**66.0**	**71.5**	**80.7**
Iodomethane	µg/L	*250 U*	*250 U*	*250 UCH*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Methylene Chloride	µg/L	**4.2**	*5.0 U*	*5.0 U*	*5.0 U*
Styrene	µg/L	**19.6**	**15.3**	**16.0**	**19.7**
Tetrachloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Toluene	µg/L	**4,210**	**3,550**	**3,620**	**3,160**
trans-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
Trichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichlorofluoromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Vinyl Acetate	µg/L	*50.0 U*	*50.0 U*	*5.0 U*	*5.0 U*
Vinyl chloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Xylenes	µg/L	**1,150**	**985**	**1,100**	**1,190**
Total Volatile Organics	µg/L	**27,675**	**27,216**	**25,008**	**20,901**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**745**	**517**	**792**	**750**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-4
Cell 2 Groundwater Analytical Results

Sample ID		CO37-PZM038			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/25/2019	6/18/2019		12/16/2019
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
1,1,1-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
1,1,2-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
1,1-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
1,1-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
1,2,3-Trichloropropane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*25.0 U*	*25.0 U*	*NS*	*25.0 U*
1,2-Dibromoethane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
1,2-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
1,2-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
1,2-Dichloropropane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
1,4-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
2-Butanone (MEK)	µg/L	*50.0 U*	*50.0 U*	*NS*	*50.0 U*
2-Hexanone	µg/L	*50.0 U*	*50.0 U*	*NS*	*50.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50.0 U*	*50.0 U*	*NS*	*50.0 UL1*
Acetone	µg/L	**17.3**	**258**	*NS*	**39.7**
Acrylonitrile	µg/L	*20.0 U*	*20.0 U*	*NS*	*20.0 UL1*
Benzene	µg/L	**13,900**	**17,600**	*NS*	**10,800**
Bromochloromethane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
Bromodichloromethane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
Bromoform	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
Bromomethane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 UB*
Carbon disulfide	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
Carbon tetrachloride	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
Chlorobenzene	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
Chloroethane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
Chloroform	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
Chloromethane	µg/L	*5.0 U*	**5.1**	*NS*	*5.0 U*
cis-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
cis-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
Dibromochloromethane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
Dibromomethane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
Ethylbenzene	µg/L	**244**	**313**	*NS*	**306**
Iodomethane	µg/L	*250 U*	*250 U*	*NS*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
Methylene Chloride	µg/L	**4.5**	*5.0 U*	*NS*	*5.0 UL1*
Styrene	µg/L	**366**	**470**	*NS*	**481**
Tetrachloroethene	µg/L	*5.0 U*	*5.0 U*	*NS*	**7.0**
Toluene	µg/L	**8,190**	**9,520**	*NS*	**6,950**
trans-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
trans-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*25.0 U*	*25.0 U*	*NS*	*25.0 U*
Trichloroethene	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
Trichlorofluoromethane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
Vinyl Acetate	µg/L	*50.0 U*	*50.0 U*	*NS*	*5.0 U*
Vinyl chloride	µg/L	*5.0 U*	*5.0 UL2*	*NS*	*5.0 U*
Xylenes	µg/L	**1,930**	**2,510**	*NS*	**2,450**
Total Volatile Organics	µg/L	**24,652**	**30,676**	*NS*	**21,034**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**1,370**	**1,390**	*NS*	**1,800**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-4
Cell 2 Groundwater Analytical Results

Sample ID		CO38-PZM006			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/25/2019	6/19/2019	9/27/2019	12/13/2019
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,1-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2,3-Trichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
1,2-Dibromoethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,4-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
2-Butanone (MEK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
2-Hexanone	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
Acetone	µg/L	*50.0 U*	**117**	*50.0 U*	*50.0 U*
Acrylonitrile	µg/L	*20.0 U*	*20.0 U*	*20.0 U*	*20.0 U*
Benzene	µg/L	**4,660**	**5,940**	**1,900**	**4,210**
Bromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromodichloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromoform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 UB*
Carbon disulfide	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Carbon tetrachloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Ethylbenzene	µg/L	**59**	**65.2**	**34.4**	**74.3**
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Methylene Chloride	µg/L	**5.3**	*5.0 U*	*5.0 U*	*5.0 U*
Styrene	µg/L	**48.1**	**35.1**	**5.0**	**51.2**
Tetrachloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Toluene	µg/L	**1,100**	**859**	**133**	**1,260**
trans-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
Trichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichlorofluoromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Vinyl Acetate	µg/L	*50.0 U*	*50.0 U*	*5.0 U*	*5.0 U*
Vinyl chloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Xylenes	µg/L	**490**	**479**	**108**	**561**
Total Volatile Organics	µg/L	**6,362**	**7,495**	**2,180**	**6,157**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**1,520**	**1,280**	**651**	**1,740**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-4
Cell 2 Groundwater Analytical Results

Sample ID		CO38-PZM043			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/25/2019	6/19/2019	9/27/2019	12/13/2019
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,1-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2,3-Trichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromoethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,4-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
2-Butanone (MEK)	µg/L	*10.0 U*	**2.4**	*10.0 U*	*10.0 UR1*
2-Hexanone	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10.0 U*	**0.47**	*10.0 U*	*10.0 U*
Acetone	µg/L	*10.0 U*	**217**	*10.0 U*	*10.0 U*
Acrylonitrile	µg/L	*4.0 U*	*4.0 U*	*4.0 U*	*4.0 U*
Benzene	µg/L	**0.4**	**3.4**	**19.2**	**0.54**
Bromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromodichloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromoform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	**0.88**
Carbon disulfide	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Carbon tetrachloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chlorobenzene	µg/L	*1.0 U*	**0.45**	**0.33**	*1.0 U*
Chloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloromethane	µg/L	*1.0 U*	**3.8**	*1.0 U*	*1.0 U*
cis-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Ethylbenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Iodomethane	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Methylene Chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Styrene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Tetrachloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Toluene	µg/L	*1.0 U*	**0.46**	**1.1**	**0.33**
trans-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichloroethene	µg/L	*1.0 U*	*1.0 U*	**0.34**	*1.0 U*
Trichlorofluoromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Vinyl Acetate	µg/L	*10.0 U*	*10.0 U*	*1.0 U*	*1.0 U*
Vinyl chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Xylenes	µg/L	*3.0 U*	*3.0 U*	**2.4**	**1.4**
Total Volatile Organics	µg/L	**0.4**	**228**	**23.4**	**3.2**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	*2.0 U*	*2.0 U*	**2.9**	**30.5 C8ML**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-4
Cell 2 Groundwater Analytical Results

Sample ID		CO39-PZM007			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/25/2019	6/18/2019	10/2/2019	12/16/2019
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,1,1-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,1,2-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,1-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,1-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,2,3-Trichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*25.0 U*
1,2-Dibromoethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,2-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,2-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,2-Dichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,4-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
2-Butanone (MEK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*50.0 U*
2-Hexanone	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*50.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*50.0 UL1*
Acetone	µg/L	*10.0 U*	**10.7**	**7.2**	**31.6**
Acrylonitrile	µg/L	*4.0 U*	*4.0 U*	*4.0 U*	*20.0 UL1*
Benzene	µg/L	**282**	**767**	**8,990**	**1,350**
Bromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Bromodichloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Bromoform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Bromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 UCL*	*5.0 UB*
Carbon disulfide	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Carbon tetrachloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Chlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Chloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Chloroform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Chloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
cis-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
cis-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Dibromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Dibromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Ethylbenzene	µg/L	**0.99**	**4.7**	**52.9**	**12.6**
Iodomethane	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Methylene Chloride	µg/L	**1.0**	*1.0 U*	*1.0 U*	*5.0 UL1*
Styrene	µg/L	**0.55**	**4.9**	**65.4**	**10.5**
Tetrachloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Toluene	µg/L	**9.9**	**126**	**1,980**	**295**
trans-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
trans-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*25.0 U*
Trichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Trichlorofluoromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Vinyl Acetate	µg/L	*10.0 U*	*10.0 U*	*1.0 U*	*5.0 U*
Vinyl chloride	µg/L	*1.0 U*	*1.0 UL2*	*1.0 U*	*5.0 U*
Xylenes	µg/L	**4.7**	**48**	**472**	**90.8**
Total Volatile Organics	µg/L	**299**	**961**	**11,568**	**1,791**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**433**	**1,540**	**2,770**	**970**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-4
Cell 2 Groundwater Analytical Results

Sample ID		CO39-PZM042			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/25/2019	6/18/2019	10/2/2019	12/16/2019
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,1,1-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,1,2-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,1-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,1-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,2,3-Trichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*25.0 U*
1,2-Dibromoethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,2-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,2-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,2-Dichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
1,4-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
2-Butanone (MEK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*50.0 U*
2-Hexanone	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*50.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*50.0 U*
Acetone	µg/L	*10.0 U*	**64.4**	*10.0 U*	**46.4**
Acrylonitrile	µg/L	*4.0 U*	*4.0 U*	*4.0 U*	*20.0 U*
Benzene	µg/L	**1,290**	**7,900**	**20,500**	**5,710**
Bromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Bromodichloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Bromoform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Bromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 UCL*	*5.0 UB*
Carbon disulfide	µg/L	*1.0 U*	**0.39**	**0.98**	*5.0 U*
Carbon tetrachloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Chlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Chloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Chloroform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Chloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
cis-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
cis-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Dibromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Dibromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Ethylbenzene	µg/L	**12.3**	**55.9**	**165**	**64.7**
Iodomethane	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Methylene Chloride	µg/L	**0.86**	*1.0 U*	*1.0 U*	*5.0 U*
Styrene	µg/L	**16.4**	**81.4**	**215**	**97.7**
Tetrachloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Toluene	µg/L	**377**	**2,120**	**6,380**	**2,260**
trans-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
trans-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*25.0 U*
Trichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Trichlorofluoromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*5.0 U*
Vinyl Acetate	µg/L	*10.0 U*	*10.0 U*	*1.0 U*	*5.0 U*
Vinyl chloride	µg/L	*1.0 U*	*1.0 UL2*	*1.0 U*	*5.0 U*
Xylenes	µg/L	**117**	**542**	**1,430**	**546**
Total Volatile Organics	µg/L	**1,814**	**10,764**	**28,691**	**8,725**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**1,280**	**9,820**	**7,040**	**1,990**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-4
Cell 2 Groundwater Analytical Results

Sample ID		CO40-PZM008			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/26/2019	6/19/2019	9/27/2019	12/16/2019
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,1-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2,3-Trichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromoethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,4-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
2-Butanone (MEK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
2-Hexanone	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 UL1*
Acetone	µg/L	*10.0 U*	**52.2**	*10.0 U*	*10.0 U*
Acrylonitrile	µg/L	*4.0 U*	*4.0 U*	*4.0 U*	*4.0 UL1*
Benzene	µg/L	**40.5**	**241**	**3,900**	**137**
Bromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromodichloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromoform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 UB*
Carbon disulfide	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Carbon tetrachloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Ethylbenzene	µg/L	*1.0 U*	**1.6**	**70.6**	**1.3**
Iodomethane	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Methylene Chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 UL1*
Styrene	µg/L	*1.0 U*	*1.0 U*	**60.9**	*1.0 U*
Tetrachloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Toluene	µg/L	**4.7**	**19.8**	**1,230**	**19.6**
trans-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichloroethene	µg/L	*1.0 U*	*1.0 U*	**0.43**	*1.0 U*
Trichlorofluoromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Vinyl Acetate	µg/L	*10.0 U*	*10.0 U*	*1.0 U*	*1.0 U*
Vinyl chloride	µg/L	*1.0 U*	*1.0 UML*	*1.0 U*	*1.0 U*
Xylenes	µg/L	**2.8**	**16.4**	**540**	**8.4**
Total Volatile Organics	µg/L	**48.0**	**331**	**5,802**	**166**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**16**	**61.3**	**3,340**	**68.2**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-4
Cell 2 Groundwater Analytical Results

Sample ID		CO41-PZM001			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/25/2019	6/20/2019	10/2/2019	12/13/2019
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,1-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2,3-Trichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromoethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,4-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
2-Butanone (MEK)	µg/L	*10.0 U*	**6.7**	*10.0 U*	*10.0 U*
2-Hexanone	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
Acetone	µg/L	*10.0 U*	**24.1**	**8.2**	*10.0 U*
Acrylonitrile	µg/L	*4.0 U*	*4.0 U*	*4.0 U*	*4.0 U*
Benzene	µg/L	**1.7**	**2,520**	**4,470**	**6,500**
Bromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromodichloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromoform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 UCL*	*1.0 UB*
Carbon disulfide	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Carbon tetrachloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Ethylbenzene	µg/L	*1.0 U*	**137**	**144**	**257**
Iodomethane	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Methylene Chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Styrene	µg/L	*1.0 U*	*1.0 U*	**4.7**	*1.0 U*
Tetrachloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Toluene	µg/L	**0.6**	**1,520**	**2,110**	**3,930**
trans-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Trichlorofluoromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Vinyl Acetate	µg/L	*10.0 U*	*10.0 U*	*1.0 U*	*1.0 U*
Vinyl chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Xylenes	µg/L	*3.0 U*	**850**	**1,200**	**1,890**
Total Volatile Organics	µg/L	**2.3**	**5,058**	**7,937**	**12,577**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	*2.0 U*	**75.7**	**103**	**133**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-4
Cell 2 Groundwater Analytical Results

Sample ID		CO41-PZM036			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/25/2019	6/20/2019	10/2/2019	12/13/2019
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,1-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2,3-Trichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
1,2-Dibromoethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,4-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
2-Butanone (MEK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
2-Hexanone	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
Acetone	µg/L	*50.0 U*	**76.9**	*50.0 U*	*50.0 U*
Acrylonitrile	µg/L	*20.0 U*	*20.0 U*	*20.0 U*	*20.0 U*
Benzene	µg/L	**224,000**	**213,000**	**225,000**	**169,000**
Bromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromodichloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromoform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 UCL*	*5.0 UB*
Carbon disulfide	µg/L	**1.8**	**1.9**	*5.0 U*	*5.0 U*
Carbon tetrachloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Ethylbenzene	µg/L	**520**	**675**	**919**	**898**
Iodomethane	µg/L	*250 U*	**3.8**	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Methylene Chloride	µg/L	**4.9**	**4.6**	*5.0 U*	*5.0 U*
Styrene	µg/L	**308**	**362**	**459**	**462**
Tetrachloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Toluene	µg/L	**71,800**	**67,800**	**81,800**	**65,700**
trans-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
Trichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichlorofluoromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Vinyl Acetate	µg/L	*50.0 U*	*50.0 U*	*5.0 U*	*5.0 U*
Vinyl chloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Xylenes	µg/L	**11,300**	**12,100**	**20,600**	**15,600**
Total Volatile Organics	µg/L	**307,935**	**294,024**	**328,778**	**251,660**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**382**	**328**	**430**	**423**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-4
Cell 2 Groundwater Analytical Results

Sample ID		CO42-PZM004			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/26/2019	6/18/2019	9/27/2019	12/16/2019
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,1-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2,3-Trichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromoethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,4-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
2-Butanone (MEK)	µg/L	*10.0 U*	**2.3**	*10.0 U*	*10.0 U*
2-Hexanone	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 UL1*
Acetone	µg/L	*10.0 U*	**163**	**6.7**	*10.0 U*
Acrylonitrile	µg/L	*4.0 U*	*4.0 U*	*4.0 U*	*4.0 UL1*
Benzene	µg/L	**1.1**	**331**	**138**	**27.5**
Bromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromodichloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromoform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromomethane	µg/L	*1.0 U*	*1.0 U*	**0.78**	*1.0 UB*
Carbon disulfide	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Carbon tetrachloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloromethane	µg/L	*1.0 U*	**3.5**	*1.0 U*	*1.0 U*
cis-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Ethylbenzene	µg/L	*1.0 U*	**62.0**	**23.6**	**5.9**
Iodomethane	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Methylene Chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 UL1*
Styrene	µg/L	*1.0 U*	**51.6**	**24.3**	**3.9**
Tetrachloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Toluene	µg/L	**1.4**	**595**	**231**	**35.7**
trans-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichloroethene	µg/L	*1.0 U*	*1.0 U*	**0.3**	*1.0 U*
Trichlorofluoromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Vinyl Acetate	µg/L	*10.0 U*	*10.0 U*	*1.0 U*	*1.0 U*
Vinyl chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Xylenes	µg/L	**1.4**	**627**	**318**	**121**
Total Volatile Organics	µg/L	**3.9**	**1,835**	**743**	**194**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	*2.0 U*	**208**	**168**	**31.6**

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 2019 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	116	53	57	42	67
Average Concentrations	ug/m^3	32,073	70,847	1,834	29,806	134,560
Estimated Hydrocarbon Destruction/Removal Rate	pounds/hour	0.014	0.014	0.000	0.005	0.008
Total VGAC Operating Time	hours	300	1,332	1,885	1,275	4,792
Overall VGAC Operational Time	%	13.9%	61.0%	85.4%	57.7%	54.5%
Estimated Total Hydrocarbons Destroyed/Removed	pounds	4.2	18.9	0.7	6.0	29.8

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

June 24, 2011 - December 31, 2019

Parameter	Units	Quantity
Total VGAC Operating Time	hours	36,503
Overall VGAC Operational Time	%	48.9%
Estimated Total Hydrocarbons Destroyed/Removed	pounds	1,965
Estimated Hydrocarbon Destruction/Removal Rate	pounds/hour	0.0538

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

Month		January	February	March
Analyte (TO-15 Organics)	**Units**			
1,1,1-Trichloroethane	ug/m^3	*NS*	*714 U*	*9.4 U*
1,1,2,2-Tetrachloroethane	ug/m^3	*NS*	*449 U*	*5.9 U*
1,1,2-Trichloroethane	ug/m^3	*NS*	*357 U*	*4.7 U*
1,1,2-Trichlorotrifluoroethane	ug/m^3	*NS*	*1000 U*	*13.2 U*
1,1-Dichloroethane	ug/m^3	*NS*	*529 U*	*7.0 U*
1,1-Dichloroethene	ug/m^3	*NS*	*518 U*	*6.8 U*
1,2,3-Trimethylbenzene	ug/m^3	*NS*	*642 UN2*	**10.7**
1,2,4-Trichlorobenzene	ug/m^3	*NS*	*4850 U*	*63.9 U*
1,2,4-Trimethylbenzene	ug/m^3	*NS*	*642 U*	**18.6**
1,2-Dibromoethane (EDB)	ug/m^3	*NS*	*502 U*	*6.6 U*
1,2-Dichlorobenzene	ug/m^3	*NS*	*784 U*	*10.3 U*
1,2-Dichloroethane	ug/m^3	*NS*	*264 U*	*3.5 U*
1,2-Dichloropropane	ug/m^3	*NS*	*604 U*	*8.0 U*
1,3,5-Trimethylbenzene	ug/m^3	*NS*	*642 U*	**60.9**
1,3-Dichlorobenzene	ug/m^3	*NS*	*784 U*	*10.3 U*
1,4-Dichlorobenzene	ug/m^3	*NS*	*1970 U*	*25.9 U*
1,4-Dioxane (p-Dioxane)	ug/m^3	*NS*	*2350 U*	*31.0 U*
2-Butanone (MEK)	ug/m^3	*NS*	*1930 U*	*25.4 U*
2-Hexanone	ug/m^3	*NS*	*2670 U*	*35.3 U*
4-Methyl-2-pentanone (MIBK)	ug/m^3	*NS*	*2670 U*	*35.3 U*
Acetone	ug/m^3	*NS*	*1550 U*	*20.4 U*
Benzene	ug/m^3	*NS*	**33000**	**24600**
Bromodichloromethane	ug/m^3	*NS*	*874 U*	*11.5 U*
Bromoform	ug/m^3	*NS*	*3380 U*	*44.5 U*
Bromomethane	ug/m^3	*NS*	*507 U*	*6.7 U*
Carbon disulfide	ug/m^3	*NS*	*407 U*	*5.4 U*
Carbon tetrachloride	ug/m^3	*NS*	*823 U*	*10.9 U*
Chlorobenzene	ug/m^3	*NS*	*602 U*	*7.9 U*
Chloroethane	ug/m^3	*NS*	*345 U*	*4.5 U*
Chloroform	ug/m^3	*NS*	*319 U*	*4.2 U*
Chloromethane	ug/m^3	*NS*	*270 U*	*3.6 U*
cis-1,2-Dichloroethene	ug/m^3	*NS*	*518 U*	*6.8 U*
cis-1,3-Dichloropropene	ug/m^3	*NS*	*593 U*	*7.8 U*
Cyclohexane	ug/m^3	*NS*	*1130 U*	*14.8 U*
Dibromochloromethane	ug/m^3	*NS*	*1110 U*	*14.7 U*
Dichlorodifluoromethane	ug/m^3	*NS*	*649 U*	*8.6 U*
Ethylbenzene	ug/m^3	*NS*	*568 U*	**58.9**
Hexachloro-1,3-butadiene	ug/m^3	*NS*	*3490 U*	*46.0 U*
Isopropylbenzene (Cumene)	ug/m^3	*NS*	*1610 U*	*21.2 U*
Methylene Chloride	ug/m^3	*NS*	*2270 U*	**112**
Methyl-tert-butyl ether	ug/m^3	*NS*	*2350 U*	*31.0 U*
Naphthalene	ug/m^3	*NS*	*1710 U*	**24**
Styrene	ug/m^3	*NS*	*557 U*	*7.3 U*
Tetrachloroethene	ug/m^3	*NS*	*443 U*	*5.8 U*
Toluene	ug/m^3	*NS*	**2280**	**3160**
trans-1,2-Dichloroethene	ug/m^3	*NS*	*518 U*	*6.8 U*
trans-1,3-Dichloropropene	ug/m^3	*NS*	*593 U*	*7.8 U*
Trichloroethene	ug/m^3	*NS*	*351 U*	*4.6 U*
Trichlorofluoromethane	ug/m^3	*NS*	*733 U*	*9.7 U*
Vinyl chloride	ug/m^3	*NS*	*167 U*	*2.2 U*
Xylene (Total)	ug/m^3	*NS*	*1700 U*	**822**
Total Volatile Organics	ug/m^3	*NS*	**35,280**	**28,867**

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		April	May	June
Analyte (TO-15 Organics)	**Units**			
1,1,1-Trichloroethane	ug/m^3	*63.9 U*	*45.3 U*	*1590 U*
1,1,2,2-Tetrachloroethane	ug/m^3	*40.2 U*	*28.5 U*	*998 U*
1,1,2-Trichloroethane	ug/m^3	*32.0 U*	*22.6 U*	*794 U*
1,1,2-Trichlorotrifluoroethane	ug/m^3	*89.9 U*	*63.6 U*	*2230 U*
1,1-Dichloroethane	ug/m^3	*47.4 U*	*33.6 U*	*1180 U*
1,1-Dichloroethene	ug/m^3	*46.4 U*	*32.9 U*	*1150 U*
1,2,3-Trimethylbenzene	ug/m^3	*57.5 UN2*	*40.8 UN2*	*1430 UN2*
1,2,4-Trichlorobenzene	ug/m^3	*434 U*	*308 U*	*10800 U*
1,2,4-Trimethylbenzene	ug/m^3	*57.5 U*	*40.8 U*	*1430 U*
1,2-Dibromoethane (EDB)	ug/m^3	*45.0 U*	*31.9 U*	*1120 U*
1,2-Dichlorobenzene	ug/m^3	*70.3 U*	*49.8 U*	*1750 U*
1,2-Dichloroethane	ug/m^3	*23.7 U*	*16.8 U*	*588 U*
1,2-Dichloropropane	ug/m^3	*54.1 U*	*38.3 U*	*1340 U*
1,3,5-Trimethylbenzene	ug/m^3	*57.5 U*	*40.8 U*	*1430 U*
1,3-Dichlorobenzene	ug/m^3	*70.3 U*	*49.8 U*	*1750 U*
1,4-Dichlorobenzene	ug/m^3	*176 U*	*125 U*	*4380 U*
1,4-Dioxane (p-Dioxane)	ug/m^3	*211 U*	*149 U*	*13100 U*
2-Butanone (MEK)	ug/m^3	*173 U*	*122 U*	*4290 U*
2-Hexanone	ug/m^3	*240 U*	*170 U*	*5950 U*
4-Methyl-2-pentanone (MIBK)	ug/m^3	*240 U*	*170 U*	*5950 U*
Acetone	ug/m^3	*139 U*	*98.3 U*	*3450 U*
Benzene	ug/m^3	**93200**	**74900**	**33600**
Bromodichloromethane	ug/m^3	*78.3 U*	*55.5 U*	*1950 U*
Bromoform	ug/m^3	*302 U*	*214 U*	*7510 U*
Bromomethane	ug/m^3	*45.4 U*	*32.2 U*	*1130 U*
Carbon disulfide	ug/m^3	*36.5 U*	*25.8 U*	*905 U*
Carbon tetrachloride	ug/m^3	*73.7 U*	*52.2 U*	*1830 U*
Chlorobenzene	ug/m^3	*53.9 U*	*38.2 U*	*1340 U*
Chloroethane	ug/m^3	*30.9 U*	*54.7 U*	*767 U*
Chloroform	ug/m^3	*28.6 U*	*20.2 U*	*709 U*
Chloromethane	ug/m^3	*24.2 U*	*17.1 U*	*601 U*
cis-1,2-Dichloroethene	ug/m^3	*46.4 U*	*32.9 U*	*1150 U*
cis-1,3-Dichloropropene	ug/m^3	*53.2 U*	*37.7 U*	*1320 U*
Cyclohexane	ug/m^3	*101 U*	*71.4 U*	*2500 U*
Dibromochloromethane	ug/m^3	*99.6 U*	*70.6 U*	*2470 U*
Dichlorodifluoromethane	ug/m^3	*58.2 U*	*41.2 U*	*1440 U*
Ethylbenzene	ug/m^3	**75.6**	**54.7**	*1260 U*
Hexachloro-1,3-butadiene	ug/m^3	*312 U*	*221 U*	*7750 U*
Isopropylbenzene (Cumene)	ug/m^3	*144 U*	*102 U*	*3580 U*
Methylene Chloride	ug/m^3	*203 U*	*144 U*	*12600 U*
Methyl-tert-butyl ether	ug/m^3	*211 U*	*149 U*	*5240 U*
Naphthalene	ug/m^3	*153 U*	*109 U*	*3800 U*
Styrene	ug/m^3	*49.9 U*	*35.3 U*	*1240 U*
Tetrachloroethene	ug/m^3	*39.7 U*	*28.1 U*	*986 U*
Toluene	ug/m^3	**3200**	**2000**	**4100**
trans-1,2-Dichloroethene	ug/m^3	*46.4 U*	*32.9 U*	*1150 U*
trans-1,3-Dichloropropene	ug/m^3	*53.2 U*	*37.7 U*	*1320 U*
Trichloroethene	ug/m^3	*31.4 U*	*22.3 U*	*781 U*
Trichlorofluoromethane	ug/m^3	*65.7 U*	*46.5 U*	*1630 U*
Vinyl chloride	ug/m^3	*15.0 U*	*21.2 U*	*372 U*
Xylene (Total)	ug/m^3	**791**	**619**	*3790 U*
Total Volatile Organics	ug/m^3	**97,267**	**77,574**	**37,700**

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
Analyte (TO-15 Organics)	**Units**			
1,1,1-Trichloroethane	ug/m^3	*26.5 U*	*18.6 U*	*1.7 U*
1,1,2,2-Tetrachloroethane	ug/m^3	*16.6 U*	*11.7 U*	*1.1 U*
1,1,2-Trichloroethane	ug/m^3	*13.2 U*	*18.6 U*	*0.86 U*
1,1,2-Trichlorotrifluoroethane	ug/m^3	*37.2 U*	*26.2 U*	*2.4 U*
1,1-Dichloroethane	ug/m^3	*19.6 U*	*13.8 U*	*1.3 U*
1,1-Dichloroethene	ug/m^3	*19.2 U*	*13.5 U*	*1.2 U*
1,2,3-Trimethylbenzene	ug/m^3	*23.8 UN2*	*16.8 UN2*	**1.6**
1,2,4-Trichlorobenzene	ug/m^3	*180 U*	*127 U*	*11.7 U*
1,2,4-Trimethylbenzene	ug/m^3	*23.8 U*	*16.8 U*	*1.5 U*
1,2-Dibromoethane (EDB)	ug/m^3	*18.6 U*	*13.1 U*	*1.2 U*
1,2-Dichlorobenzene	ug/m^3	*29.1 U*	*20.5 U*	*1.9 U*
1,2-Dichloroethane	ug/m^3	*9.8 U*	*6.9 U*	*0.64 U*
1,2-Dichloropropane	ug/m^3	*22.4 U*	*15.8 U*	*1.5 U*
1,3,5-Trimethylbenzene	ug/m^3	**26.7**	*16.8 U*	**7.1**
1,3-Dichlorobenzene	ug/m^3	*29.1 U*	*20.5 U*	*1.9 U*
1,4-Dichlorobenzene	ug/m^3	*73.0 U*	*51.4 U*	*4.7 U*
1,4-Dioxane (p-Dioxane)	ug/m^3	*87.3 U*	*61.5 U*	*5.7 U*
2-Butanone (MEK)	ug/m^3	*71.5 U*	*50.4 U*	*4.6 U*
2-Hexanone	ug/m^3	*99.2 U*	*69.9 U*	*6.4 U*
4-Methyl-2-pentanone (MIBK)	ug/m^3	*99.2 U*	*69.9 U*	*6.4 U*
Acetone	ug/m^3	*57.5 U*	*40.5 U*	**7.8**
Benzene	ug/m^3	**673**	**3810**	**14.2**
Bromodichloromethane	ug/m^3	*32.4 U*	*22.8 U*	*2.1 U*
Bromoform	ug/m^3	*125 U*	*88.2 U*	*8.1 U*
Bromomethane	ug/m^3	*18.8 U*	*13.3 U*	*1.2 U*
Carbon disulfide	ug/m^3	*15.1 U*	*10.6 U*	**1.5**
Carbon tetrachloride	ug/m^3	*30.5 U*	*21.5 U*	*2.0 U*
Chlorobenzene	ug/m^3	*22.3 U*	*15.7 U*	*1.5 U*
Chloroethane	ug/m^3	*12.8 U*	*9.0 U*	*0.83 U*
Chloroform	ug/m^3	*11.8 U*	*8.3 U*	*0.77 U*
Chloromethane	ug/m^3	*10.0 U*	*7.1 U*	*0.65 U*
cis-1,2-Dichloroethene	ug/m^3	*19.2 U*	*13.5 U*	*1.2 U*
cis-1,3-Dichloropropene	ug/m^3	*22.0 U*	*15.5 U*	*1.4 U*
Cyclohexane	ug/m^3	*41.7 U*	*29.4 U*	*2.7 U*
Dibromochloromethane	ug/m^3	*41.2 U*	*29.1 U*	*2.7 U*
Dichlorodifluoromethane	ug/m^3	*24.1 U*	*17.0 U*	**2.7**
Ethylbenzene	ug/m^3	*21.1 U*	*14.8 U*	**1.5**
Hexachloro-1,3-butadiene	ug/m^3	*129 U*	*91.1 U*	*8.4 U*
Isopropylbenzene (Cumene)	ug/m^3	*59.6 U*	*42.0 U*	*3.9 U*
Methylene Chloride	ug/m^3	*84.2 U*	*59.3 U*	*5.5 U*
Methyl-tert-butyl ether	ug/m^3	*87.3 U*	*61.5 U*	*5.7 U*
Naphthalene	ug/m^3	*63.4 U*	*44.7 U*	*4.1 U*
Styrene	ug/m^3	*20.6 U*	*14.5 U*	*1.3 U*
Tetrachloroethene	ug/m^3	*16.4 U*	*11.6 U*	**3.6**
Toluene	ug/m^3	**221**	**334**	**5.6**
trans-1,2-Dichloroethene	ug/m^3	*19.2 U*	*13.5 U*	*1.2 U*
trans-1,3-Dichloropropene	ug/m^3	*22.0 U*	*15.5 U*	*1.4 U*
Trichloroethene	ug/m^3	*13.0 U*	*9.2 U*	*0.85 U*
Trichlorofluoromethane	ug/m^3	*27.2 U*	*19.2 U*	*1.8 U*
Vinyl chloride	ug/m^3	*6.2 U*	*4.4 U*	*0.40 U*
Xylene (Total)	ug/m^3	**205**	**171**	**16.1**
Total Volatile Organics	ug/m^3	**1,126**	**4,315**	**62**

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		October	November	December
Analyte (TO-15 Organics)	**Units**			
1,1,1-Trichloroethane	ug/m^3	*1.9 U*	*751 U*	*128 U*
1,1,2,2-Tetrachloroethane	ug/m^3	*1.2 U*	*472 U*	*80.4 U*
1,1,2-Trichloroethane	ug/m^3	*0.97 U*	*376 U*	*63.9 U*
1,1,2-Trichlorotrifluoroethane	ug/m^3	*2.7 U*	*1060 U*	*180 U*
1,1-Dichloroethane	ug/m^3	*1.4 U*	*557 U*	*94.8 U*
1,1-Dichloroethene	ug/m^3	*1.4 U*	*546 U*	*92.9 U*
1,2,3-Trimethylbenzene	ug/m^3	**7**	*676 U*	*115 U*
1,2,4-Trichlorobenzene	ug/m^3	*13.2 U*	*5100 U*	*869 U*
1,2,4-Trimethylbenzene	ug/m^3	**8**	*676 U*	*115 U*
1,2-Dibromoethane (EDB)	ug/m^3	*1.4 U*	*529 U*	*90.0 U*
1,2-Dichlorobenzene	ug/m^3	*2.1 U*	*826 U*	*141 U*
1,2-Dichloroethane	ug/m^3	*0.72 U*	*278 U*	*47.3 U*
1,2-Dichloropropane	ug/m^3	*1.6 U*	*636 U*	*108 U*
1,3,5-Trimethylbenzene	ug/m^3	**40**	*676 U*	*115 U*
1,3-Dichlorobenzene	ug/m^3	*2.1 U*	*826 U*	*141 U*
1,4-Dichlorobenzene	ug/m^3	*5.4 U*	*2070 U*	*353 U*
1,4-Dioxane (p-Dioxane)	ug/m^3	*6.4 U*	*2480 U*	*422 U*
2-Butanone (MEK)	ug/m^3	*5.2 U*	*2030 U*	*346 U*
2-Hexanone	ug/m^3	*7.3 U*	*2820 U*	*479 U*
4-Methyl-2-pentanone (MIBK)	ug/m^3	*7.3 U*	*2820 U*	*479 U*
Acetone	ug/m^3	*4.2 U*	*1630 U*	*278 U*
Benzene	ug/m^3	**67800**	**12200**	**1560**
Bromodichloromethane	ug/m^3	*2.4 U*	*920 U*	*157 U*
Bromoform	ug/m^3	*9.2 U*	*3550 U*	*605 U*
Bromomethane	ug/m^3	*1.4 U*	*534 U*	*90.9 U*
Carbon disulfide	ug/m^3	**4.3**	*428 U*	*72.9 U*
Carbon tetrachloride	ug/m^3	*2.2 U*	*866 U*	*147 U*
Chlorobenzene	ug/m^3	*1.6 U*	*633 U*	*108 U*
Chloroethane	ug/m^3	*0.94 U*	*363 U*	*61.7 U*
Chloroform	ug/m^3	*0.87 U*	*336 U*	*57.1 U*
Chloromethane	ug/m^3	*0.74 U*	*284 U*	*48.4 U*
cis-1,2-Dichloroethene	ug/m^3	**9.3**	*546 U*	*92.9 U*
cis-1,3-Dichloropropene	ug/m^3	*3.0 U*	*625 U*	*106 U*
Cyclohexane	ug/m^3	**2.3**	*1180 U*	*202 U*
Dibromochloromethane	ug/m^3	**63.6**	*1170 U*	*199 U*
Dichlorodifluoromethane	ug/m^3	*9.5 U*	*684 U*	*116 U*
Ethylbenzene	ug/m^3	*4.4 U*	*598 U*	*102 U*
Hexachloro-1,3-butadiene	ug/m^3	*6.4 U*	*3670 U*	*624 U*
Isopropylbenzene (Cumene)	ug/m^3	*6.2 U*	*1690 U*	*288 U*
Methylene Chloride	ug/m^3	*4.7 U*	*2390 U*	*407 U*
Methyl-tert-butyl ether	ug/m^3	**4.9**	*2480 U*	*422 U*
Naphthalene	ug/m^3	**6.7**	**2260**	*306 U*
Styrene	ug/m^3	**5830**	*586 U*	*99.8 U*
Tetrachloroethene	ug/m^3	*0.96 U*	*466 U*	*79.4 U*
Toluene	ug/m^3	*2.0 U*	**1120**	**183**
trans-1,2-Dichloroethene	ug/m^3	*0.46 U*	*546 U*	*92.9 U*
trans-1,3-Dichloropropene	ug/m^3	*8900 U*	*625 U*	*106 U*
Trichloroethene	ug/m^3	*1.4 U*	*370 U*	*62.9 U*
Trichlorofluoromethane	ug/m^3	*1.6 U*	*772 U*	*131 U*
Vinyl chloride	ug/m^3	*1.4 U*	*176 U*	*30.0 U*
Xylene (Total)	ug/m^3	*1.6 U*	*1790 U*	*305 U*
Total Volatile Organics	ug/m^3	**73,776**	**15,580**	**1,743**

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		3/28/2019	6/18/2019	10/1/2019	12/12/2019
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,1-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2,3-Trichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromoethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,4-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
2-Butanone (MEK)	µg/L	*10.0 U*	**5.2**	*10.0 U*	*10.0 U*
2-Hexanone	µg/L	*10.0 U*	**1.1**	*10.0 U*	*10.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
Acetone	µg/L	**12.8**	**377**	*10.0 U*	**7.4**
Acrylonitrile	µg/L	*4.0 U*	*4.0 U*	*4.0 U*	*4.0 U*
Benzene	µg/L	**9.6**	**5,580**	**1,800**	**4,810**
Bromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromodichloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromoform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromomethane	µg/L	*1.0 UCL*	*1.0 U*	*1.0 U*	**0.75**
Carbon disulfide	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Carbon tetrachloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloromethane	µg/L	*1.0 U*	**3.7**	*1.0 U*	*1.0 U*
cis-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Ethylbenzene	µg/L	*1.0 U*	**3.5**	**2.7**	**5.8**
Iodomethane	µg/L	*50.0 UCL*	*50.0 U*	*50.0 U*	*50.0 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Methylene Chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Styrene	µg/L	*1.0 U*	**0.6**	**0.75**	**1.5**
Tetrachloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Toluene	µg/L	*1.0 U*	**157**	**135**	**374**
trans-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Trichlorofluoromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Vinyl Acetate	µg/L	*10.0 U*	*10.0 U*	*1.0 U*	*1.0 U*
Vinyl chloride	µg/L	*1.0 U*	*1.0 UL2*	*1.0 U*	*1.0 U*
Xylenes	µg/L	*3.0 U*	**43.2**	**37.6**	**70.7**
Total Volatile Organics	µg/L	**22.4**	**6,171**	**1,976**	**5,270**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	*2.0 U*	**103**	**105**	**186**

Notes:
Bold = Analyte Detected
NS = Not Sampled
µg/L = Micrograms per liter
U = Analyte not detected

Table C3-3
Cell 3 Groundwater Analytical Results

Sample ID		CO102-PZM			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/28/2019	6/17/2019	10/1/2019	12/12/2019
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,1-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2,3-Trichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
1,2-Dibromoethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,4-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
2-Butanone (MEK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
2-Hexanone	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
Acetone	µg/L	**39.8**	**196**	*50.0 U*	**47.6**
Acrylonitrile	µg/L	*20.0 U*	*20.0 U*	*20.0 U*	*20.0 U*
Benzene	µg/L	**9,730**	**12,800**	**4,800**	**12,100**
Bromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromodichloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromoform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromomethane	µg/L	*5.0 UCL*	*5.0 U*	*5.0 U*	**12.3**
Carbon disulfide	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Carbon tetrachloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloromethane	µg/L	*5.0 U*	**7.0**	*5.0 U*	*5.0 U*
cis-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Ethylbenzene	µg/L	**17.4**	**21.8**	**8.7**	**20.3**
Iodomethane	µg/L	*250 UCL*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Methylene Chloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Styrene	µg/L	**5.6**	**6.2**	**2.0**	**5.7**
Tetrachloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Toluene	µg/L	**716**	**834**	**343**	**926**
trans-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
Trichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichlorofluoromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Vinyl Acetate	µg/L	*50.0 U*	*50.0 U*	*5.0 U*	*5.0 U*
Vinyl chloride	µg/L	*5.0 U*	*5.0 UL2*	*5.0 U*	*5.0 U*
Xylenes	µg/L	**202**	**236**	**96.8**	**222**
Total Volatile Organics	µg/L	**10,711**	**14,101**	**5,251**	**13,334**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**888**	**941**	**422**	**974**

Notes:
Bold = Analyte Detected
NS = Not Sampled
µg/L = Micrograms per liter
U = Analyte not detected

Table C3-3
Cell 3 Groundwater Analytical Results

Sample ID		CO103-PZM			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/28/2019	6/17/2019	10/1/2019	12/12/2019
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,1-Trichloroethane	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2-Trichloroethane	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethane	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethene	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2,3-Trichloropropane	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*25.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromoethane	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichlorobenzene	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloroethane	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloropropane	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,4-Dichlorobenzene	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
2-Butanone (MEK)	µg/L	*50.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
2-Hexanone	µg/L	*50.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
Acetone	µg/L	**60.4**	**30.6**	*10.0 U*	**10.7**
Acrylonitrile	µg/L	*20.0 U*	*4.0 U*	*4.0 U*	*4.0 U*
Benzene	µg/L	**995**	**9,880**	**14,500**	**12,100**
Bromochloromethane	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromodichloromethane	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromoform	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromomethane	µg/L	*5.0 UCL*	*1.0 U*	*1.0 U*	**2.5**
Carbon disulfide	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Carbon tetrachloride	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chlorobenzene	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroethane	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroform	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloromethane	µg/L	*5.0 U*	**1.2**	*1.0 U*	*1.0 U*
cis-1,2-Dichloroethene	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,3-Dichloropropene	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromochloromethane	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromomethane	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Ethylbenzene	µg/L	**2.5**	**3.0**	**23.6**	**29.8**
Iodomethane	µg/L	*250 UCL*	*50.0 U*	*50.0 U*	*50.0 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Methylene Chloride	µg/L	**5.0**	*1.0 U*	*1.0 U*	*1.0 U*
Styrene	µg/L	*5.0 U*	*1.0 U*	**2.0**	**2.3**
Tetrachloroethene	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Toluene	µg/L	**53.6**	**98.7**	**901**	**608**
trans-1,2-Dichloroethene	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,3-Dichloropropene	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*25.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichloroethene	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Trichlorofluoromethane	µg/L	*5.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Vinyl Acetate	µg/L	*50.0 U*	*10.0 U*	*1.0 U*	*1.0 U*
Vinyl chloride	µg/L	*5.0 U*	*1.0 UL2*	*1.0 U*	*1.0 U*
Xylenes	µg/L	**31.1**	**47.9**	**367**	**453**
Total Volatile Organics	µg/L	**1,148**	**10,061**	**15,794**	**13,206**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**70.5**	**98.5**	**1,810**	**1,370**

Notes:
Bold = Analyte Detected
NS = Not Sampled
µg/L = Micrograms per liter
U = Analyte not detected

Table C3-3
Cell 3 Groundwater Analytical Results

Sample ID		CO104-PZM			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/28/2019	6/17/2019	9/30/2019	12/12/2019
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,1-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2,3-Trichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromoethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,4-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
2-Butanone (MEK)	µg/L	*10.0 UR1*	*10.0 U*	*10.0 U*	*10.0 U*
2-Hexanone	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
Acetone	µg/L	**4.9**	**224**	*10.0 U*	*10.0 U*
Acrylonitrile	µg/L	*4.0 U*	*4.0 U*	*4.0 U*	*4.0 U*
Benzene	µg/L	**1.9**	**0.83**	**1.0**	**3.9**
Bromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromodichloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromoform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromomethane	µg/L	*1.0 UCL*	*1.0 U*	*1.0 UCL*	*1.0 UCL*
Carbon disulfide	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Carbon tetrachloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloromethane	µg/L	*1.0 U*	**8.0**	*1.0 U*	*1.0 U*
cis-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Ethylbenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Iodomethane	µg/L	*50.0 UCL*	*50.0 U*	*50.0 U*	*50.0 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Methylene Chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Styrene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Tetrachloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Toluene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Trichlorofluoromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Vinyl Acetate	µg/L	*10.0 U*	*10.0 U*	*1.0 U*	*1.0 U*
Vinyl chloride	µg/L	*1.0 U*	*1.0 UL2*	*1.0 U*	*1.0 U*
Xylenes	µg/L	*3.0 U*	*3.0 U*	*3.0 U*	*3.0 U*
Total Volatile Organics	µg/L	**6.8**	**232.8**	**1.0**	**3.9**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**1.9**	*2.0 U*	**1.0**	**1.5**

Notes:
Bold = Analyte Detected
NS = Not Sampled
µg/L = Micrograms per liter
U = Analyte not detected

Table C3-3
Cell 3 Groundwater Analytical Results

Sample ID		CO30-PZM015			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/28/2019	6/17/2019	9/30/2019	12/20/2019
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,1-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2,3-Trichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
1,2-Dibromoethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,4-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
2-Butanone (MEK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
2-Hexanone	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
Acetone	µg/L	**23.9**	**167**	*50.0 U*	**32.8**
Acrylonitrile	µg/L	*20.0 U*	*20.0 U*	*20.0 U*	*20.0 U*
Benzene	µg/L	**51,000**	**69,900**	**53,300**	**56,300**
Bromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromodichloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromoform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromomethane	µg/L	*5.0 UCL*	*5.0 U*	*5.0 U*	**7.4**
Carbon disulfide	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Carbon tetrachloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloromethane	µg/L	*5.0 U*	**5.5**	*5.0 U*	*5.0 U*
cis-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Ethylbenzene	µg/L	**87.3**	**117**	**84.8**	**133**
Iodomethane	µg/L	*250 UCL*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Methylene Chloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Styrene	µg/L	**13.9**	**15.1**	**11.7**	**17.7**
Tetrachloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Toluene	µg/L	**3,890**	**5,110**	**4,560**	**4,240**
trans-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
Trichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichlorofluoromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Vinyl Acetate	µg/L	*50.0 U*	*50.0 U*	*5.0 U*	*5.0 U*
Vinyl chloride	µg/L	*5.0 U*	*5.0 UL2*	*5.0 U*	*5.0 U*
Xylenes	µg/L	**1,190**	**1,590**	**1,230**	**1,840**
Total Volatile Organics	µg/L	**56,205**	**76,905**	**59,187**	**62,571**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**2,710**	**9,090**	**8,640**	**5,540**

Notes:
Bold = Analyte Detected
NS = Not Sampled
µg/L = Micrograms per liter
U = Analyte not detected

Table C3-3
Cell 3 Groundwater Analytical Results

Sample ID		CO30-PZM060			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/28/2019	6/17/2019	9/30/2019	12/20/2019
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,1-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2,3-Trichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromoethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,4-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
2-Butanone (MEK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
2-Hexanone	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	**1.3**
4-Methyl-2-pentanone (MIBK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
Acetone	µg/L	**4.7**	**187**	*10.0 U*	**5.8**
Acrylonitrile	µg/L	*4.0 U*	*4.0 U*	*4.0 U*	*4.0 U*
Benzene	µg/L	**4.2**	**85.5**	**321**	**49.8**
Bromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromodichloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromoform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromomethane	µg/L	*1.0 UCL*	*1.0 U*	*1.0 U*	*1.0 UCL*
Carbon disulfide	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Carbon tetrachloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloromethane	µg/L	*1.0 U*	**4.9**	*1.0 U*	*1.0 U*
cis-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Ethylbenzene	µg/L	*1.0 U*	*1.0 U*	**0.62**	*1.0 U*
Iodomethane	µg/L	*50.0 UCL*	*50.0 U*	*50.0 UCH*	*50.0 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 UML*
Methylene Chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Styrene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Tetrachloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Toluene	µg/L	*1.0 U*	**2.0**	**20.6**	*1.0 U*
trans-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Trichlorofluoromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Vinyl Acetate	µg/L	*10.0 U*	*10.0 U*	*1.0 U*	*1.0 U*
Vinyl chloride	µg/L	*1.0 U*	*1.0 UL2*	*1.0 U*	*1.0 U*
Xylenes	µg/L	*3.0 U*	*3.0 U*	**9.6**	*3.0 U*
Total Volatile Organics	µg/L	**8.90**	**279.40**	**351.8**	**56.9**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	*2.0 U*	**1.5**	**29**	*2.0 U*

Notes:
Bold = Analyte Detected
NS = Not Sampled
µg/L = Micrograms per liter
U = Analyte not detected

Table C5-1
Cell 5 Monitoring 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: 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	1,680,559	1,255,792	966,744	1,907,309	5,810,404
Extracted Total Concentrations	lbs/gal	2.53E-05	4.10E-05	3.57E-05	5.68E-05	1.59E-04
Effluent Total Concentrations	lbs/gal	0	2.77E-06	0	6.95E-08	2.84E-06
Extracted Hydrocarbons	lbs	42.5	51.5	34.5	108.4	237
Effluent Hydrocarbons	lbs	0	3.48	0	0.13	3.61
Total Hydrocarbons Removed	lbs	42.5	48.0	34.5	108	233

Table C5-3
Cell 5 DNAPL Occurrence and Recovery

Well ID	Total DNAPL Recovery Period		Pre-2019		Estimated DNAPL Recovered 2019		Cumulative Total DNAPL Recovered	
	Begin	End	(gal)	(lbs)[1]	(gal)	(lbs)[1]	(gal)	(lbs)[1]
CO123	1-Jan-16	On-going[2]	498	4,779	110	1,056	608	5,835
CO124	1-Jan-16	On-going[2]	400	3,839	110	1,056	510	4,895
CO125	1-Jan-16	On-going[2]	70	672	110	1,056	81	777
CO169	1-Jan-16	On-going[2]	50	480	0	0	50	480
Total Recovery:			**1,018**	**9,770**	**231**	**3,167**	**1,249**	**11,987**

Notes:

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

Table C5-4
Well Groundwater Elevations

Well ID	Temporary Well ID	Top of PVC Elevation (ft)	Aquifer	Well Depth from Ground Surface (ft)	3/27/2019		6/20/19 - 6/21/19		9/25/2019		12/13/19 - 12/18/19	
					Depth to Groundwater	Groundwater Elevation (ft)	Depth to Groundwater	Groundwater Elevation (ft)	Depth to Groundwater	Groundwater Elevation (ft)	Depth to Groundwater	Groundwater Elevation (ft)
CO23-PZM008		15.74	Shallow	19.00	14.68	1.06	14.82	0.92	14.79	0.95	15.08	0.66
CO24-PZM007		15.95	Shallow	19.00	14.25	1.70	14.5	1.45	14.42	1.53	14.60	1.35
CO26-PZM007		12.76	Shallow	20.00	11.74	1.02	11.77	0.99	NM	NM	12.30	0.46
CO55-PZM000	Cell 5 - MW1 (S)	15.10	Shallow	15.00	14.15	0.95	14.28	0.82	14.22	0.88	14.61	0.49
CO56-PZP001	Cell 5 - MW2 (S)	15.92	Shallow	15.00	14.99	0.93	15.1	0.82	15.06	0.86	15.44	0.48
CO57-PZP002	Cell 5 - MW3 (S)	16.59	Shallow	15.00	15.12	1.47	15.81	0.78	NM	NM	16.14	0.45
CO58-PZM001	Cell 5 - MW4 (S)	14.31	Shallow	15.00	13.47	0.84	13.48	0.83	13.48	0.83	13.94	0.37
CO59-PZP002	Cell 5 - MW5 (S)	16.75	Shallow	15.00	15.79	0.96	15.91	0.84	15.84	0.91	16.24	0.51
CO60-PZP001	Cell 5 - MW6 (S)	15.83	Shallow	15.00	14.88	0.95	15.01	0.82	14.99	0.84	15.38	0.45

Note: NM = Not Measured

Table C5-5
Cell 5 Groundwater Analytical Results

Sample ID		CO23-PZM008			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/27/2019	6/21/2019	10/11/2019	12/13/2019
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,1-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2,3-Trichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
1,2-Dibromoethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,4-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
2-Butanone (MEK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
2-Hexanone	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
Acetone	µg/L	**27.9**	**28.9**	*50.0 U*	**79**
Acrylonitrile	µg/L	*20.0 U*	*20.0 U*	*20.0 U*	*20.0 U*
Benzene	µg/L	**460**	**404**	**152**	**599**
Bromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromodichloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromoform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromomethane	µg/L	*5.0 UCL*	*5.0 U*	**5.1**	**8.7**
Carbon disulfide	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Carbon tetrachloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 UL1*	*5.0 U*
Chloroform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Ethylbenzene	µg/L	**22.5**	**19.6**	**8.9**	**27.8**
Iodomethane	µg/L	*250 UCL*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5.0 U*	**4.2**	*5.0 U*	*5.0 U*
Methylene Chloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Styrene	µg/L	**17.3**	**15.8**	**3.7**	**25.4**
Tetrachloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Toluene	µg/L	**197**	**181**	**30.7**	**303**
trans-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
Trichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichlorofluoromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Vinyl Acetate	µg/L	*50.0 U*	*50.0 U*	*5.0 U*	*5.0 U*
Vinyl chloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Xylenes	µg/L	**332**	**314**	**140**	**431**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**2,760**	**1,720**	**1,620**	**3,250**
Total Volatile Organics	µg/L	**3,817**	**2,688**	**1,960**	**4,724**

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		3/27/2019	6/21/2019	10/8/2019	12/13/2019
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,1-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2,3-Trichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromoethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,4-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
2-Butanone (MEK)	µg/L	*10.0 U*	**3.4**	*10.0 U*	*10.0 U*
2-Hexanone	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
Acetone	µg/L	**11.2**	**16.7**	**18.1**	**10.0**
Acrylonitrile	µg/L	*4.0 U*	*4.0 U*	*4.0 U*	*4.0 U*
Benzene	µg/L	**1.5**	**1.3**	**160**	*1.0 U*
Bromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromodichloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromoform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromomethane	µg/L	*1.0 UCL*	*1.0 U*	**0.83**	**1.0**
Carbon disulfide	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Carbon tetrachloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Ethylbenzene	µg/L	**5.4**	**5.7**	**6.0**	**4.5**
Iodomethane	µg/L	*50.0 UCL*	*50.0 U*	*50.0 U*	*50.0 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Methylene Chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Styrene	µg/L	**0.56**	*1.0 U*	*1.0 U*	*1.0 U*
Tetrachloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Toluene	µg/L	**1.3**	**1.2**	**37.3**	**1.6**
trans-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Trichlorofluoromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Vinyl Acetate	µg/L	*10.0 U*	*10.0 U*	*1.0 U*	*1.0 U*
Vinyl chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Xylenes	µg/L	**7.2**	**7.4**	**21.5**	**5.9**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**2,190**	**3,230**	**4,070**	**2,190**
Total Volatile Organics	µg/L	**2,217**	**3,266**	**4,314**	**2,213**

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		3/27/2019	6/20/2019	10/9/2019	12/18/2019
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
1,1,1-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
1,1,2-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
1,1-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
1,1-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
1,2,3-Trichloropropane	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
1,2-Dibromoethane	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
1,2-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
1,2-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
1,2-Dichloropropane	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
1,4-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
2-Butanone (MEK)	µg/L	*10.0 U*	*10.0 U*	*NS*	*10.0 U*
2-Hexanone	µg/L	*10.0 U*	*10.0 U*	*NS*	**2.8**
4-Methyl-2-pentanone (MIBK)	µg/L	*10.0 U*	*10.0 U*	*NS*	*10.0 U*
Acetone	µg/L	*10.0 U*	**4.8**	*NS*	**11.4**
Acrylonitrile	µg/L	*4.0 U*	*4.0 U*	*NS*	*4.0 U*
Benzene	µg/L	**98.2**	**201**	*NS*	**314**
Bromochloromethane	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
Bromodichloromethane	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
Bromoform	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
Bromomethane	µg/L	*1.0 UCL*	**2.0**	*NS*	**2.1**
Carbon disulfide	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
Carbon tetrachloride	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
Chlorobenzene	µg/L	*1.0 U*	*1.0 U*	*NS*	**0.78**
Chloroethane	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 UCH*
Chloroform	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
Chloromethane	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
cis-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
cis-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
Dibromochloromethane	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
Dibromomethane	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
Ethylbenzene	µg/L	**4.2**	**9.8**	*NS*	**14.1**
Iodomethane	µg/L	*50.0 UCL*	**2.6**	*NS*	*50.0 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
Methylene Chloride	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
Styrene	µg/L	**18.6**	**29**	*NS*	**64.8**
Tetrachloroethene	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
Toluene	µg/L	**51.4**	**117**	*NS*	**179**
trans-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
trans-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*5.0 U*	*5.0 U*	*NS*	*5.0 U*
Trichloroethene	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
Trichlorofluoromethane	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
Vinyl Acetate	µg/L	*10.0 U*	*10.0 U*	*NS*	*1.0 U*
Vinyl chloride	µg/L	*1.0 U*	*1.0 U*	*NS*	*1.0 U*
Xylenes	µg/L	**84.5**	**207**	*NS*	**300**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**961**	**2,590**	*NS*	**3,390**
Total Volatile Organics	µg/L	**1,218**	**3,163**	*NS*	**4,279**

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		3/27/2019	6/20/2019	10/10/2019	12/13/2019
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,1-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2,3-Trichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromoethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,4-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
2-Butanone (MEK)	µg/L	*10.0 U*	**2.6**	*10.0 U*	*10.0 U*
2-Hexanone	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
Acetone	µg/L	**8.7**	**320**	**15.4**	*10.0 U*
Acrylonitrile	µg/L	*4.0 U*	*4.0 U*	*4.0 U*	*4.0 U*
Benzene	µg/L	**6.0**	**3.5**	**23.5**	*1.0 U*
Bromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromodichloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromoform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromomethane	µg/L	*1.0 UCL*	**5.2**	**4.2**	**1.2**
Carbon disulfide	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Carbon tetrachloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloromethane	µg/L	*1.0 U*	*1.0 U*	**1.9**	*1.0 U*
cis-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromomethane	µg/L	*50.0 UCL*	*1.0 U*	*1.0 U*	*1.0 U*
Ethylbenzene	µg/L	*1.0 U*	*1.0 U*	**0.63**	*1.0 U*
Iodomethane	µg/L	*1.0 U*	**2.1**	*50.0 U*	*50.0 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Methylene Chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Styrene	µg/L	**0.82**	*1.0 U*	**0.43**	*1.0 U*
Tetrachloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Toluene	µg/L	*1.0 U*	**3.8**	**7.6**	**0.32**
trans-1,2-Dichloroethene	µg/L	*10.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*3.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Trichlorofluoromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Vinyl Acetate	µg/L	*1.0 U*	*10.0 U*	*1.0 U*	*1.0 U*
Vinyl chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Xylenes	µg/L	*5.0 U*	**4.2**	**10.6**	*3.0 U*
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**8.9**	**5.8**	**45.4**	**1.7**
Total Volatile Organics	µg/L	**24.4**	**347**	**110**	**3.2**

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		3/27/2019	6/20/2019	10/9/2019	12/13/2019
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,1-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1,2-Trichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,1-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2,3-Trichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
1,2-Dibromoethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dichloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,4-Dichlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
2-Butanone (MEK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
2-Hexanone	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50.0 U*	*50.0 U*	*50.0 U*	*50.0 U*
Acetone	µg/L	*50.0 U*	**70.1**	**28.2**	**77.3**
Acrylonitrile	µg/L	*20.0 U*	*20.0 U*	*20.0 U*	*20.0 U*
Benzene	µg/L	**246**	**229**	**248**	**361**
Bromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromodichloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromoform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Bromomethane	µg/L	*5.0 UCL*	*5.0 U*	**11.0**	**12**
Carbon disulfide	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Carbon tetrachloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chlorobenzene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloroform	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Chloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
cis-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromochloromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Dibromomethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Ethylbenzene	µg/L	**9.4**	**8.2**	**8.6**	**10.5**
Iodomethane	µg/L	*250 UCL*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5.0 U*	**4.4**	*5.0 U*	*5.0 U*
Methylene Chloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Styrene	µg/L	**52.2**	**41.2**	**38.9**	**86**
Tetrachloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Toluene	µg/L	**117**	**88.1**	**61.4**	**122**
trans-1,2-Dichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,3-Dichloropropene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*25.0 U*	*25.0 U*	*25.0 U*	*25.0 U*
Trichloroethene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichlorofluoromethane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Vinyl Acetate	µg/L	*50.0 U*	*50.0 U*	*5.0 U*	*5.0 U*
Vinyl chloride	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Xylenes	µg/L	**200**	**186**	**190**	**258**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**2,400**	**1,930**	**2,200**	**2,790**
Total Volatile Organics	µg/L	**3,025**	**2,557**	**2,786**	**3,717**

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		3/27/2019	6/20/2019	10/10/2019	12/13/2019
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,1-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2,3-Trichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromoethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,4-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
2-Butanone (MEK)	µg/L	*10.0 U*	**3.7**	*10.0 U*	*10.0 U*
2-Hexanone	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
Acetone	µg/L	*10.0 U*	**321**	**9.1**	**6.0**
Acrylonitrile	µg/L	*4.0 U*	*4.0 U*	*4.0 U*	*4.0 U*
Benzene	µg/L	*1.0 U*	*1.0 U*	**2.4**	*1.0 U*
Bromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromodichloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromoform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromomethane	µg/L	**0.86**	**2.5**	**0.92**	**2.3**
Carbon disulfide	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Carbon tetrachloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 UL1*	*1.0 U*
Chloroform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloromethane	µg/L	*1.0 U*	**3.2**	*1.0 U*	*1.0 U*
cis-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Ethylbenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Iodomethane	µg/L	**0.69**	**3.2**	*50.0 U*	*50.0 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Methylene Chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Styrene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Tetrachloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Toluene	µg/L	*1.0 U*	**0.45**	**0.74**	*1.0 U*
trans-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Trichlorofluoromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Vinyl Acetate	µg/L	*10.0 U*	*10.0 U*	*1.0 U*	*1.0 U*
Vinyl chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Xylenes	µg/L	*3.0 U*	*3.0 U*	*3.0 U*	*3.0 U*
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	*2.0 U*	**10.6**	**4.6**	**1.2**
Total Volatile Organics	µg/L	**1.6**	**345**	**17.8**	**9.5**

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		3/27/2019	6/20/2019	10/9/2019	12/13/2019
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,1-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethane	µg/L	**0.4**	**0.56**	*1.0 U*	*1.0 U*
1,1-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2,3-Trichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromoethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,4-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
2-Butanone (MEK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
2-Hexanone	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
Acetone	µg/L	*10.0 U*	**72.2**	**6.8**	*10.0 U*
Acrylonitrile	µg/L	*4.0 U*	*4.0 U*	*4.0 U*	*4.0 U*
Benzene	µg/L	**114**	**180**	**174**	**224**
Bromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromodichloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromoform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromomethane	µg/L	*1.0 UCL*	**0.62**	**1.1**	**1.7**
Carbon disulfide	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Carbon tetrachloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloromethane	µg/L	*1.0 U*	**0.82**	*1.0 U*	*1.0 U*
cis-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Ethylbenzene	µg/L	**5.2**	**7.9**	**9.4**	**10.9**
Iodomethane	µg/L	*50.0 UCL*	*50.0 U*	*50.0 U*	*50.0 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Methylene Chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Styrene	µg/L	**8.1**	**14.9**	**21.5**	**23**
Tetrachloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Toluene	µg/L	**30.3**	**51.7**	**75.4**	**92.5**
trans-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Trichlorofluoromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Vinyl Acetate	µg/L	*10.0 U*	*10.0 U*	*1.0 U*	*1.0 U*
Vinyl chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Xylenes	µg/L	**76.6**	**123**	**156**	**180**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**701**	**1,320**	**1,870**	**1,250**
Total Volatile Organics	µg/L	**936**	**1,772**	**2,314**	**1,782**

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		3/27/2019	6/20/2019	10/10/2019	12/13/2019
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,1-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethane	µg/L	**0.32**	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2,3-Trichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromoethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,4-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
2-Butanone (MEK)	µg/L	*10.0 U*	**3.1**	*10.0 U*	*10.0 U*
2-Hexanone	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10.0 U*	**0.89**	*10.0 U*	*10.0 U*
Acetone	µg/L	**6.2**	**304**	**6.2**	*10.0 U*
Acrylonitrile	µg/L	*4.0 U*	*4.0 U*	*4.0 U*	*4.0 U*
Benzene	µg/L	*1.0 U*	**2.4**	**4.6**	**7.4**
Bromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromodichloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromoform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromomethane	µg/L	*1.0 UCL*	**1.6**	**1.8**	**2.2**
Carbon disulfide	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Carbon tetrachloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 UL1*	*1.0 U*
Chloroform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloromethane	µg/L	*1.0 U*	**1.5**	**1.5**	*1.0 U*
cis-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Ethylbenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Iodomethane	µg/L	*50.0 UCL*	**3.2**	*50.0 U*	*50.0 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Methylene Chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Styrene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Tetrachloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Toluene	µg/L	*1.0 U*	**1.3**	**1.5**	**2.8**
trans-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Trichlorofluoromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Vinyl Acetate	µg/L	*10.0 U*	*10.0 U*	*1.0 U*	*1.0 U*
Vinyl chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Xylenes	µg/L	*3.0 U*	**1.3**	**3.1**	**5.2**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	*2.0 U*	**1,930**	**19.9**	**26.1**
Total Volatile Organics	µg/L	**6.5**	**2,249**	**38.6**	**43.7**

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		3/27/2019	6/21/2019	10/11/2019	12/13/2019
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,1-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2,2-Tetrachloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1,2-Trichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,1-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2,3-Trichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dibromo-3-chloropropane	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
1,2-Dibromoethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,2-Dichloropropane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
1,4-Dichlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
2-Butanone (MEK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
2-Hexanone	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10.0 U*	*10.0 U*	*10.0 U*	*10.0 U*
Acetone	µg/L	*10.0 U*	**10.7**	**12.8**	**10.9**
Acrylonitrile	µg/L	*4.0 U*	*4.0 U*	*4.0 U*	*4.0 U*
Benzene	µg/L	**197**	**147**	**181**	**254**
Bromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromodichloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromoform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Bromomethane	µg/L	*1.0 UCL*	**4.1**	**3.9**	**1.6**
Carbon disulfide	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Carbon tetrachloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chlorobenzene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloroethane	µg/L	*1.0 U*	*1.0 U*	*1.0 UL1*	*1.0 U*
Chloroform	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Chloromethane	µg/L	*1.0 U*	*1.0 U*	**3.8**	*1.0 U*
cis-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
cis-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromochloromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Dibromomethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Ethylbenzene	µg/L	**6.5**	**5.0**	**5.8**	**8.0**
Iodomethane	µg/L	*50.0 UCL*	**2.1**	*50.0 U*	*50.0 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Methylene Chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Styrene	µg/L	**34.6**	**4.7**	**15.0**	**33.9**
Tetrachloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Toluene	µg/L	**53.8**	**16.2**	**13.4**	**20.8**
trans-1,2-Dichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,3-Dichloropropene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
trans-1,4-Dichloro-2-butene	µg/L	*5.0 U*	*5.0 U*	*5.0 U*	*5.0 U*
Trichloroethene	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Trichlorofluoromethane	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Vinyl Acetate	µg/L	*10.0 U*	*10.0 U*	*1.0 U*	*1.0 U*
Vinyl chloride	µg/L	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 U*
Xylenes	µg/L	**148**	**111**	**117**	**172**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**1,540**	**1,310**	**2,100**	**1,590**
Total Volatile Organics	µg/L	**1,980**	**1,611**	**2,453**	**2,091**

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-2019		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]
Manual Skimming and Bailing	7/23/2010	On-going	16,052	117,629	NR	NR	NR	NR	NR	NR	110	806	16,162	118,435
MPE System	10/1/2016	On-going	3,992	29,253	0	0	342	2,506	807	5,914	923	6,764	6,064	44,437
	Total Recovery		**20,044**	**146,882**	**0**	**0**	**342**	**2,506**	**807**	**5,914**	**1033**	**7,570**	**22,226**	**162,872**

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 .

APPENDICES

APPENDIX A

2019 Field Records

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW	Project Number:	180227m-1-3
Well Number:	C018-PZM006	Date:	3-26-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	11.54	Flow Rate (mL/min)	151
Product Thickness (ft):	NA	Length of time Purged (min)	30
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
1453	0.0	11.54	15.4	8.37	1.611	4.47	-158.6	15.7	
1458	0.2	11.60	15.2	7.59	1.623	3.23	-126.6	18.5	
1503	0.4	11.62	15.1	7.19	1.620	2.67	-119.5	18.3	
1508	0.6	11.63	14.6	6.96	1.599	2.38	-114.3	18.6	
1513	0.8	11.65	14.8	6.82	1.571	2.17	-112.2	18.2	
1518	1.00	11.69	14.9	6.76	1.560	2.06	-112.0	17.0	
1523	1.20	11.69	14.9	6.73	1.542	1.95	-112.5	16.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C018-PZM006	1530	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 GW	Project Number:	180227m-1-2
Well Number:	COP2-PZM006	Date:	3-26-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.12	Flow Rate (mL/min)	151
Product Thickness (ft):	NA	Length of time Purged (min)	30
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
1306	0.0	14.12	14.1	8.12	1.112	6.49	-44.6	2.5	
1311	0.2	14.12	13.0	8.07	1.095	4.68	-78.8	2.4	
1316	0.4	14.12	13.2	8.06	1.090	4.21	-88.8	2.4	
1321	0.6	14.12	13.2	8.04	1.077	3.65	-108.5	2.2	
1326	0.8	14.12	13.5	8.06	1.087	3.30	-130.4	1.8	
1331	1.00	14.12	13.3	8.07	1.085	3.10	-137.7	1.7	
1336	1.20	14.12	13.1	8.07	1.082	2.86	-143.1	1.3	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COP2-PZM006	1345	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 GW	Project Number:	180227m-1-2
Well Number:	CO93-PZMXXX	Date:	3-26-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	9.76	Flow Rate (mL/min)	182
Product Thickness (ft):	NA	Length of time Purged (min)	40
Depth to Bottom (ft):	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
1356	0.0	9.76	12.9	8.57	0.412	5.69	-156.6	0.9	
1401	0.25	9.78	13.8	8.66	0.469	3.90	-194.9	7.6	
1406	0.50	9.78	13.3	9.01	0.583	3.39	-226.9	4.8	
1411	0.75	9.79	13.8	9.46	0.754	2.92	-258.3	1.2	
1416	1.00	9.81	13.9	10.32	0.977	2.59	-296.9	0.2	
1421	1.25	9.84	13.5	9.93	0.710	3.33	-239.9	1.2	
1426	1.50	9.84	13.8	9.70	0.677	2.62	-261.7	0.8	
1431	1.70	9.84	13.6	9.73	0.667	2.38	-268.8	0.6	
1436	1.90	9.84	13.7	9.77	0.659	2.12	-274.4	1.4	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO93-PZMXXX	1440	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 GW	Project Number:	180227m-1-2
Well Number:	CO40-PZM008	Date:	3-26-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	6.44	Flow Rate (mL/min)	167
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	18	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
1035	0.0	6.44	9.0	8.96	3.008	6.33	-105.7	3.9	
1040	0.25	6.48	8.7	8.42	3.068	4.54	-101.8	6.8	
1045	0.50	6.49	8.4	8.20	3.056	4.01	-97.8	3.3	
1050	0.70	6.57	8.8	7.98	2.998	3.45	-92.6	4.6	
1055	0.90	6.60	8.9	7.92	2.966	3.31	-90.5	3.6	
1100	1.10	6.61	9.0	7.84	2.925	3.14	-86.4	3.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO40-PZM008	1105	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: LHP

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 GW	Project Number:	180227m-1-2
Well Number:	C042-PZM004	Date:	3-26-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	~~5.65~~ 5.43	Flow Rate (mL/min)	157
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	16.40	Condition of Pad/Cover:	None / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet) 5.43	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	~~5.65~~	12.6	8.36	1.206	6.39	-90.1	2.1	
1122	0.2	5.70	12.6	8.15	1.170	5.06	-82.4	2.4	
1127	0.4	5.97	12.6	8.04	1.161	4.52	-77.9	3.0	
1132	0.55	6.16	12.3	7.98	1.157	4.26	-74.2	2.9	
1137	0.80	6.79	11.8	7.92	1.142	4.10	-69.4	2.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C042-PZM004	1140	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 + Naphthalene

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 EW	Project Number:	160227M-1-2
Well Number:	CO27-PZM012	Date:	3-26-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	4.89	Flow Rate (mL/min)	159
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	17.5	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
955	0.0	4.89	9.7	9.82	1.509	5.13	-254.4	3.7	
1000	0.25	4.89	9.3	10.14	1.525	4.12	-257.7	3.0	
1005	0.45	4.89	9.6	10.29	1.524	3.59	-261.0	2.5	
1010	0.65	4.89	9.6	10.45	1.532	3.25	-265.8	2.2	
1015	0.85	4.89	9.6	10.52	1.541	3.07	-267.8	2.1	
1020	1.05	4.89	9.7	10.57	1.538	2.92	-270.5	1.9	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO27B-PZM012	1030	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 GW	Project Number:	180227M-1-2
Well Number:	CO27-PZM046	Date:	3-26-19
Well Diameter (in):	2	One Well Volume (gal):	
Depth to Product (ft):	NA	QED Controller Settings:	
Depth to Water (ft):	7.73	Flow Rate (mL/min)	151
Product Thickness (ft):	NA	Length of time Purged (min)	35
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
914	0.0	7.73	9.9	8.27	0.996	8.01	139.9	5.1	
919	0.2	7.72	9.5	8.34	0.990	6.14	134.2	4.2	
924	0.4	7.71	9.4	8.46	0.987	4.88	124.9	7.1	
929	0.6	7.71	9.4	8.46	1.058	4.36	72.5	6.2	
934	0.8	7.71	9.6	8.44	1.262	3.81	-93.5	0.9	
939	1.00	7.71	9.4	8.52	1.258	3.52	-151.0	0.8	
944	1.20	7.71	9.5	8.60	1.267	3.23	-159.7	0.5	
949	1.40	7.71	9.6	8.64	1.26	3.09	-166.3	0.4	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO27-PZM046	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: 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 GW	Project Number:	180227m-1
Well Number:	CO36-PZM008	Date:	3-28-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	7.07	Flow Rate (mL/min)	157
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	14.12	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
911	0.0	7.07	11.4	11.28	1.360	6.80	141.6	12.2	
916	0.2	7.18	11.3	11.36	1.389	5.75	137.4	7.6	
921	0.4	7.23	11.3	11.42	1.393	4.88	130.3	7.5	
926	0.6	7.28	11.4	11.45	1.372	4.62	125.0	6.8	
931	0.8	7.31	11.3	11.46	1.357	4.49	119.9	6.6	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO36-PZM008	935	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 GW	Project Number:	18022.7m-1
Well Number:	C036-PZM043	Date:	3-25-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	7.64	Flow Rate (mL/min)	189
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	52	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
940	0.0	7.64	14.4	11.42	2498	5.28	102.2	2.8	
945	0.25	7.64	14.3	11.54	2.520	4.20	69.4	1.8	
950	0.50	7.64	14.3	11.55	2.463	3.63	37.1	1.6	
955	0.75	7.65	14.4	11.54	2.427	3.36	14.4	2.0	
1000	1.00	7.65	14.5	11.54	2.415	3.05	-4.2	1.4	
1005	1.25	7.65	14.5	11.54	2.413	2.88	-12.7	1.1	
1010	1.50	7.65	14.5	11.54	2.406	2.76	-20.2	1.1	

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	
		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 GW	Project Number:	180227M-1
Well Number:	C038-PZM006	Date:	3-25-19
Well Diameter (in):	2	One Well Volume (gal):	
Depth to Product (ft):	NA	QED Controller Settings:	
Depth to Water (ft):	6.45	Flow Rate (mL/min)	157
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	16	Condition of Pad/Cover:	Unk / 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
1025	0.0	6.45	14.3	10.68	2.814	~~5.76~~	-89.3	10.0	
1030	0.2	6.47	14.2	10.55	2.827	4.22	-142.9	10.8	
1035	0.4	6.47	14.4	10.48	2.813	3.42	-172.9	6.3	
1040	0.6	6.51	14.4	10.45	2.811	3.06	-189.9	8.8	
1045	0.8	6.51	14.3	10.44	2.811	2.82	-196.5	7.2	
1050	1.00	6.51	14.2	10.42	2.801	2.66	-202.1	7.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C038-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 GW	Project Number:	18022-7M-1
Well Number:	C038-PZM043	Date:	3-25-19
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)	159
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	50	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
1058	0.0	7.41	15.5	9.32	1.560	3.92	-205.2	1.8	
1103	0.25	7.53	15.5	8.51	1.525	2.91	-182.0	1.8	
1108	0.45	7.70	15.9	8.19	1.519	2.59	-170.3	1.6	
1113	0.65	7.81	16.0	7.97	1.515	2.39	-162.0	1.4	
1118	0.85	7.93	16.1	7.88	1.514	2.30	-158.6	1.5	
1123	1.05	8.00	16.4	7.78	1.513	2.19	-155.1	1.4	
1128	1.25	8.01	16.3	7.72	1.512	2.13	-152.9	1.9	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C038-PZM043	1130	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 + 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 GW	Project Number:	18022-7M-1
Well Number:	C037-PZM038	Date:	3-25-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	12.11	Flow Rate (mL/min)	151
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	49	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
1144	0.0	12.11	17.2	11.62	2.232	4.67	-286.6	0.7	
1149	0.2	12.11	16.8	11.83	2.312	3.43	-293.6	0.7	
1154	0.4	12.11	17.2	11.89	2.359	2.86	-300.5	0.7	
1159	0.6	12.11	17.3	11.93	2.410	2.45	-309.7	0.6	
1204	0.8	12.11	17.0	11.96	2.426	2.24	-316.6	0.7	
1209	1.0	12.11	17.0	11.98	2.436	2.09	-321.1	0.6	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C037-PZM038	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 + 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 GW	Project Number:	180227m-1-2
Well Number:	C039-PZM042	Date:	3/25/19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	8.08	Flow Rate (mL/min)	167
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	47	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
13.28	0.0	8.08	14.2	11.79	3.125	3.53	-260.2	6.7	
1333	0.25	8.06	14.3	11.86	3.135	2.95	-286.5	2.9	
1338	0.50	8.06	14.4	11.90	3.142	2.64	-301.6	6.5	
1343	0.70	8.06	14.6	11.92	3.142	2.44	-311.5	14.0	
1348	0.90	8.06	14.5	11.93	3.151	2.30	-318.7	15.3	
1353	1.10	8.06	14.6	11.94	3.144	2.19	-323.2	16.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C039-PZM042	1400	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 + 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 GW	Project Number:	180227m-1-2
Well Number:	C039-PZM007	Date:	3-25-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	5.21	Flow Rate (mL/min)	151
Product Thickness (ft):	NA	Length of time Purged (min)	30
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
1247	0.0	5.21	13.6	10.87	2.977	6.66	-101.0	2.8	
1252	0.2	5.21	13.3	10.77	2.986	5.04	-134.0	3.9	
1257	0.4	5.21	13.1	10.75	2.982	4.22	-155.7	4.4	
1302	0.60	5.21	12.9	10.74	2.979	3.56	-173.2	4.7	
1307	0.8	5.21	12.8	10.74	2.984	3.33	-179.9	4.2	
1312	1.00	5.21	12.8	10.73	2.980	3.06	-187.8	4.5	
1317	1.20	5.21	12.8	10.72	2.987	2.85	-193.8	3.6	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C039-PZM007	1320	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 GW	Project Number:	180227M-1-2
Well Number:	C041-PZM036	Date:	3-25-19
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)	151
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	51	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
1416	0.0	14.53	15.7	11.45	1.569	4.57	-250.2	12.0	
1421	0.2	14.52	15.7	11.42	1.532	3.25	-278.9	11.5	
1426	0.4	14.51	15.7	11.39	1.532	2.63	-290.3	9.6	
1431	0.6	14.51	15.7	11.37	1.533	2.23	-298.1	9.6	
1436	0.8	14.50	15.7	11.37	1.534	2.01	-304.8	7.0	
1441	1.0	14.50	15.7	11.36	1.536	1.88	-304.0	6.7	
1446	1.2	14.50	15.7	11.35	1.535	1.79	-305.3	6.3	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C041-PZM036	1450	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 GW	Project Number:	180227M-1-2
Well Number:	C041-PZM001	Date:	3-25-19
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)	189
Product Thickness (ft):	NA	Length of time Purged (min)	30
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
1454	0.0	11.73	13.2	9.77	0.693	5.74	-166.9	2.4	
1459	0.25	11.73	13.1	9.26	0.683	5.30	-156.9	2.4	
1504	0.50	11.73	13.1	8.93	0.681	5.13	-141.0	1.8	
1509	0.75	11.73	12.9	8.75	0.683	5.00	-131.8	1.8	
1514	1.00	11.73	12.8	8.57	0.680	4.93	-119.5	1.3	
1519	1.25	11.73	12.7	8.43	0.680	4.85	-111.3	1.2	
1524	1.50	11.73	12.6	8.35	0.681	4.81	-106.8	1.2	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C041-PZM001	1530	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 GW	Project Number:	180227M-1-2
Well Number:	C030-PZM015	Date:	3-28-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	11.80	Flow Rate (mL/min)	303
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	27.5	Condition of Pad/Cover:	None/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
1342	0.0	11.79	15.0	12.14	2.658	4.35	-75.2	3.8	
1347	0.4	11.82	14.9	12.18	2.685	2.69	-118.7	3.2	
1352	0.8	11.87	14.7	12.19	2.698	2.13	-139.4	2.6	
1357	1.2	11.90	14.9	12.18	2.697	1.92	-147.6	2.3	
1402	1.6	11.93	14.8	12.18	2.692	1.75	-155.5	2.4	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C030-PZM015	1410	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

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: CO 103 - P2MXXX	Date: 3/28/19
Well Diameter (in): 2	~~One~~ Well Volume (gal): —
Depth to Product (ft): N/A	QED Controller Settings: —
Depth to Water (ft): 12.95	Flow Rate (mL/min) 227
Product Thickness (ft): N/A	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
1020	~~1.8~~ 0	12.95	14.1	11.55	0.625	3.78	-61.7	2.6	
1025	~~60.3~~	—	14.2	11.45	0.562	2.68	-56.9	1.4	
1030	0.6	—	14.1	11.42	0.580	2.24	-52.4	1.1	
1035	0.9	—	14.1	11.41	0.583	2.21	-49.6	0.8	
1040	1.2	—	14.2	11.42	0.596	2.16	-48.2	0.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO 103-P2MXXX	1042	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: TCV

Comments: VOC & NAPTH probe stopped working

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:	CO30-PZM060	Date:	3-28-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	13.25	Flow Rate (mL/min)	303
Product Thickness (ft):	NA	Length of time Purged (min)	35
Depth to Bottom (ft):	72'	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
1412	0.0	13.25	14.9	~~14.9~~ 9.38	9.590	1.78	-232.6	14.2	
1417	0.4	13.28	15.3	8.64	9.673	1.60	-210.6	11.5	
1422	0.8	13.30	15.1	8.22	9.780	1.56	-201.3	7.8	
1427	1.2	13.32	15.3	7.95	9.874	1.52	-201.5	6.9	
1432	1.6	13.29	15.0	7.80	9.851	1.51	-197.2	9.5	
1437	2.0	13.28	15.1	7.71	9.868	1.50	-193.4	6.6	
1442	2.4	13.27	15.2	7.64	9.856	1.48	-189.5	6.0	
1447	2.8	13.27	15.4	7.57	9.899	1.46	-188.9	5.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO30-PZM060	1450	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:	CHAGN	Project Number:	180227M-1-2
Well Number:	C0101-PzmXXX	Date:	3-28-19
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)	114
Product Thickness (ft):	NA	Length of time Purged (min)	5
Depth to Bottom (ft):	13.45	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
1140	0.0	13.23	12.4	9.55	1.305	6.37	27.6	12.1	
1145	0.15	13.27	13.0	8.84	1.302	5.98	27.6	12.4	
	⊘								
			Sampled	due	to	low	water		
							NOT	stabile	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0101-PzmXXX	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: 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 GW	Project Number:	180227M-1-2
Well Number:	C0104-PZMXXX	Date:	3-28-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	N.A	QED Controller Settings:	—
Depth to Water (ft):	13.35	Flow Rate (mL/min)	303
Product Thickness (ft):	NA	Length of time Purged (min)	20
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
1156	0.0	13.35	13.0	10.89	1.350	8.24	-11.1	3.4	
1201	0.4	13.75	13.0	11.31	1.407	7.45	-12.4	1.4	
1206	0.8	13.98	13.1	11.44	1.419	7.21	-12.0	1.3	
1211	1.2	14.19	13.3	11.49	1.419	6.95	-11.9	1.3	
1216	1.6	14.35	13.2	11.52	1.424	6.71	-12.1	1.2	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0104-PZMXXX	1220	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 GW	Project Number:	180227m-1-2
Well Number:	C0102-PZMXXX	Date:	3-28-19
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)	151
Product Thickness (ft):	NA	Length of time Purged (min)	30
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
922	0.0	12.46	13.5	11.36	1.722	3.85	45.4	9.1	
927	0.2	12.45	13.3	11.47	1.776	2.80	-70.3	5.5	
932	0.4	—	13.3	11.55	1.789	2.29	-66.3	4.4	
937	0.6	—	14.0	11.60	1.783	1.90	-93.9	5.5	
942	0.8	—	13.9	11.64	1.801	1.85	-108.7	8.0	
947	1.0	—	13.9	11.65	1.798	1.79	-116.1	6.4	
952	1.2	—	14.2	11.67	1.790	1.71	-126.1	6.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0102-PZMXXX	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: 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:	C058-PZM001	Date:	3-27-19
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)	157
Product Thickness (ft):	NA	Length of time Purged (min)	30
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
1411	0.0	13.47	12.9	11.24	2.057	5.55	2.8	4.5	
1416	0.20	13.50	12.8	11.60	2.090	3.22	11.1	5.4	
1421	0.40	13.54	12.4	11.65	2.136	2.89	10.5	7.9	
1426	0.60	13.57	12.4	11.66	2.192	2.78	10.4	4.6	
1431	0.80	13.61	12.7	11.70	2.202	2.64	8.6	2.7	
1436	1.00	13.66	12.0	11.75	2.277	2.58	7.7	2.0	
1441	1.20	13.66	12.0	11.80	2.298	2.47	5.6	1.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C058-PZM001	1445	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

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-PZP001	Date:	3-27-19
Well Diameter (in):	2	One Well Volume (gal):	
Depth to Product (ft):	NA	QED Controller Settings:	
Depth to Water (ft):	14.88	Flow Rate (mL/min)	189
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	19	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
1458	0.0	14.88	13.2	11.35	3.546	5.06	5.6	5.1	
1503	0.25	14.88	13.1	11.34	3.556	2.82	1.3	1.8	
1508	0.50	14.88	13.2	11.34	3.559	2.28	-1.6	1.9	
1513	0.75	14.88	13.2	11.32	3.500	2.06	-3.6	2.1	
1518	1.00	14.88	13.4	11.28	3.146	2.26	-6.6	1.0	
1523	1.25	14.88	13.4	11.30	3.094	2.34	-7.9	0.8	
1528	1.50	14.88	13.4	11.31	3.054	2.37	-9.0	0.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C060-PZP001	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: LLD

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 GW	Project Number:	180227m-1-2
Well Number:	C055-PZM000	Date:	3-27-19
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)	85
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	17.10	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
1253	0.0	14.55	13.9	12.24	2.064	9.13	-42.5	32.8	
1258	0.15	15.07	13.6	12.19	2.062	9.12	-40.1	11.8	
1303	0.30	15.88	13.3	12.19	2.059	9.12	-39.2	12.7	
1308	0.45	16.56	14.7	12.13	2.042	9.20	-37.5	65.2	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C055-PZM000	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: 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 GW	Project Number:	180227m-1-2
Well Number:	CO26-PZM007	Date:	3-27-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	11.74	Flow Rate (mL/min)	151
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	19.32	Condition of Pad/Cover:	None / poor

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
1326	0.0	11.74	15.7	9.85	1.042	7.14	28.3	13.8	
1331	0.2	11.75	15.6	9.50	1.040	6.62	29.7	14.3	
1336	0.4	11.76	15.6	9.29	1.040	6.38	30.5	18.5	
1341	0.6	11.79	15.3	9.15	1.040	6.25	31.2	17.2	
1346	0.8	11.82	15.5	9.22	1.040	6.05	23.6	16.0	
1351	1.00	11.82	15.8	9.27	1.051	5.89	14.7	15.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO26-PZM007	1355	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 GW	Project Number:	180227M-1-2
Well Number:	C057-PZP002	Date:	3-27-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	15.12	Flow Rate (mL/min)	216
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	17.90	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
1108	0.0	15.12	10.6	12.14	2.312	7.47	-22.5	10.3	
1113	0.25	15.11	9.9	12.22	2.434	5.64	-15.5	2.4	
1118	0.55	15.11	9.6	12.29	2.471	4.94	-12.6	2.1	
1123	0.90	15.11	9.8	12.31	2.474	4.77	-11.8	1.7	
1128	1.15	15.11	10.0	12.33	2.484	4.57	-11.9	1.4	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C057-PZP002	1130	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: LVP

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 GW	Project Number:	180227M-1-2
Well Number:	C056-PZP001	Date:	3-27-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.99	Flow Rate (mL/min)	129
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	19.0	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
1201	0.0	14.99	12.8	11.57	3.837	6.05	22.7	2.6	
1206	0.2	14.99	12.9	11.65	3.998	3.41	17.0	3.8	
1211	0.4	14.99	12.9	11.68	4.024	2.82	12.7	3.1	
1216	0.55	14.99	12.9	11.70	4.043	2.41	8.3	2.4	
1221	0.70	14.99	13.0	11.70	4.048	2.11	3.3	2.2	
1226	0.85	14.99	13.1	11.70	4.039	1.97	0.6	1.9	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C056-PZP001	1230	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 GW	Project Number:	180227m-1.2
Well Number:	CO59-P2R002	Date:	3-27-19
Well Diameter (in):	2	One Well Volume (gal):	
Depth to Product (ft):	NA	QED Controller Settings:	
Depth to Water (ft):	15.79	Flow Rate (mL/min)	157
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	19.00	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
1019	0.0	15.79	10.6	11.45	2.285	6.67	-18.3	5.5	
1024	0.2	15.79	10.0	11.37	2.214	5.64	-11.2	2.0	
1029	0.4	15.76	9.9	11.34	2.218	4.89	-4.3	1.1	
1034	0.6	15.76	10.1	11.35	2.233	4.40	-0.7	1.2	
1039	0.8	15.76	10.0	11.42	2.277	4.12	1.2	1.3	
1044	1.0	15.76	10.1	11.48	2.301	3.94	2.6	1.1	
1049	1.2	15.76	10.5	11.57	2.337	3.72	2.7	1.2	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO59-P2R002	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 + 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 GW	Project Number:	180227m-1-2
Well Number:	CO24-PZM007	Date:	3-27-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.25	Flow Rate (mL/min)	157
Product Thickness (ft):	NA	Length of time Purged (min)	25
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
859	0.0	14.25	7.1	8.92	3.243	4.92	195.5	2.2	
904	0.2	14.33	7.0	9.36	3.094	3.80	190.4	2.4	
909	0.4	14.36	7.4	9.57	3.047	3.08	183.7	3.9	
914	0.6	14.37	7.4	9.64	3.075	2.66	178.3	3.3	
919	0.8	14.38	7.5	9.68	3.088	2.50	175.3	5.7	
924	1.00	14.40	7.7	9.68	3.117	2.33	169.5	10.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO24-PZM007	930	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 + Warsh

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:	180227M4-2
Well Number:	C023-PZM008	Date:	3-27-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.68	Flow Rate (mL/min)	189
Product Thickness (ft):	NA	Length of time Purged (min)	30
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
936	0.0	14.68	11.5	10.56	5.039	5.90	130.1	3.4	
941	0.25	14.68	10.7	11.08	5.683	3.52	75.2	2.2	
946	0.50	14.68	10.4	11.21	5.876	2.66	42.8	1.4	
951	0.75	14.68	10.2	11.26	5.948	2.27	25.2	1.2	
956	1.00	14.68	10.5	11.28	5.976	2.05	13.1	1.0	
1001	1.25	14.68	10.6	11.28	5.994	*1.96	7.2	1.0	
1006	1.50	14.68	10.8	11.29	6.030	1.84	-2.0	1.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C023-PZM008	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	
		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 Quarterly	Project Number: 180227
Well Number: CO24-PZM007	Date: 6/21/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): -	QED Controller Settings:
Depth to Water (ft): 14.50	Flow Rate (mL/min) 310
Product Thickness (ft): -	Length of time Purged (min)
Depth to Bottom (ft): 22	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
0950	0		17.4	7.98	3.754	6.11	37.3		
0955	.3		16.2	9.29	3.658	3.19	-40.8		
1000	.6		16.6	9.46	3.729	2.63	-65.2		
1005	.9		16.6	9.59	3.780	2.29	-82.9		
1010	1.2		16.5	9.61	3.801	2.08	-92.9		
1015	1.5		16.0	9.63	3.814	2.00	-97.6		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO24-PZM007	1020	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: LMA

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 Quarterly	Project Number: 180207
Well Number: CO23-PZM005	Date: 6/21/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 14.82	Flow Rate (mL/min) 310
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 21.5	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
0912	0		18.9	11.40	5.905	5.55	-99.6		
0917	.3		19.1	11.28	4.938	3.35	-111.9		
0922	.6		18.9	11.31	4.653	2.73	-125.0		
0927	.9		18.8	11.33	4.585	2.37	-133.8		
0932	1.2		18.9	11.34	4.560	2.18	-137.2		
0937	1.5		18.8	11.35	4.563	2.07	-139.5		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO23-PZM005	0942	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: LMA

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 Quarterly	Project Number: 180227
Well Number: C060-PZM001	Date: 6/21/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): -	QED Controller Settings:
Depth to Water (ft): 15.01	Flow Rate (mL/min) 300
Product Thickness (ft): -	Length of time Purged (min)
Depth to Bottom (ft): 19	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
0830	0		19.8	10.47	3.052	8.31	-45.8		
0835	.3		19.1	11.18	2.961	4.93	-64.9		
0840	.6		18.8	11.19	2.987	3.79	-57.9		
0845	.9		18.8	11.20	2.843	3.32	-56.14		
0850	1.2		19.0	11.22	2.876	3.12	-59.3		
0855	1.5		18.9	11.32	2.918	2.99	-62.0		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C060-PZM001	0900	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: LMG

Comments:
VOC mph

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 Quarterly	Project Number: 180223
Well Number: C057-PZM002	Date: 6/20/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): -	QED Controller Settings:
Depth to Water (ft): 15.81	Flow Rate (mL/min) 300
Product Thickness (ft): -	Length of time Purged (min)
Depth to Bottom (ft): 18	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
1320	0		28.2	11.99	1.795	7.30	-87.6		
1325	.3		24.9	12.01	1.754	6.09	-90.3		
1330	.6		24.8	11.96	1.770	5.36	-92.4		
1335	.9		25.4	11.77	1.776	4.84	-89.2		
1340	1.2								purged dry
1345	1.5								

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C057-PZM002	1345	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: LMG

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 Quarterly	Project Number: 150227
Well Number: C026-PZM009	Date: 6/20/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 11.77	Flow Rate (mL/min) 250
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 19	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
1435	0		21.0	11.59	3.503	5.64	-54.0		
1440	.3		20.5	11.44	3.410	3.64	-74.2		
1445	.6		20.1	11.24	2.092	2.96	-98.3		
1450	.9		20.0	11.40	2.051	2.62	-102.2		
1455	1.2		20.0	11.49	2.386	2.47	-105.2		
1500	1.5		19.8	11.56	2.632	2.35	-108.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C026-PZM009	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: LMG

Comments:
VOC raph

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 Quarterly	Project Number: 180357
Well Number: C056-PZM001	Date: 6/20/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 15.10	Flow Rate (mL/min) 300
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 19.5	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
1054	0		21.3	11.68	3.821	6.23	-90.2		
1059	.3		19.7	11.57	3.751	3.80	-108.6		
1104	.6		20.0	11.62	3.473	2.95	-123.9		
1109	.9		20.5	11.65	3.427	2.56	-132.8		
1114	1.2		20.5	11.65	3.429	2.38	-138.0		
1119	1.5		20.4	11.65	3.423	2.16	-140.8		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C056-PZM001	1124	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: LMG

Comments:
VC mph

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 Quarterly	Project Number: 180229
Well Number: C058-PZM001	Date: 6/20/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 13.48	Flow Rate (mL/min) 300
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 19	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
1222	0		25.0	11.92	3.623	5.03	-70.2		
1227	.3		25.2	11.87	3.616	3.31	-88.7		
1232	.6		24.6	11.89	3.596	2.83	-99.4		
1237	.9		24.4	11.86	3.513	2.46	-106.0		
1242	1.2		23.9	11.83	3.467	2.26	-109.3		
1247	1.5		21.4	11.80	3.435	2.12	-111.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C058-PZM001	1252	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: LMG

Comments:
VOC rmph

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 Quarterly	Project Number: 180229
Well Number: 0059-PZMOD	Date: 10/20/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): -	QED Controller Settings:
Depth to Water (ft): 15.91	Flow Rate (mL/min) 300
Product Thickness (ft): -	Length of time Purged (min)
Depth to Bottom (ft): 19	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
1005	0		23.6	11.91	2.925	6.55	-203.9		
1010	.3		20.5	11.95	3.047	3.49	-234.6		
1015	.6		20.2	11.97	3.097	3.18	-229.2		
1020	.9		20.1	11.92	3.000	2.97	-222.5		
1025	1.2		20.8	11.92	2.964	2.90	-217.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
0059-PZMOD	1030	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: LMG

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 Quarterly	Project Number: 180229
Well Number: C041-PZM036	Date: 6/20/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 13.33	Flow Rate (mL/min) 300
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 51	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
0923	0		21.8	11.04	1.443	3.82	-279.8		
0928	.3		21.8	11.11	1.402	2.63	-290.8		
0933	.6		21.9	11.13	1.506	2.20	-299.0		
0938	.9		21.7	11.13	1.511	2.00	-303.3		
0943	1.2		21.6	11.12	1.511	1.89	-305.1		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C041-PZM036	0948	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: LMG

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: COA Quarterly	Project Number: 180222
Well Number: ~~C042 PZM~~ C041-PZM001	Date: 6/20/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 12.42	Flow Rate (mL/min) 300
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 16	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
0841	0		23.3	7.37	1.151	7.47	-9.9		
0846	.3		23.5	7.75	1.109	4.94	-30.1		
0851	.6		23.9	7.81	1.102	3.67	-48.9		
0856	.9		24.0	7.83	1.096	3.21	-77.0		
0901	1.2		24.1	7.83	1.086	2.93	-93.1		
0906	1.5		24.3	7.82	1.082	2.66	-109.9		
0911	1.8		24.2	7.83	1.078	2.48	-118.0		
0916	2.1		24.2	7.82	1.073	2.39	-126.2		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C041-PZM001	0921	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: LMG

Comments: VOC graph

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: CSA Quarterly	Project Number: 180229
Well Number: CO36-PZMO43	Date: 6/19/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 7.09	Flow Rate (mL/min) 275
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 53	Condition of Pad/Cover: /

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C) ± 0.1	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	~~2.0~~ 0		24.2	11.22	1.899	4.09	-144.3		
1440	.3		21.5	11.30	2.138	2.38	-193.6		
1445	.6		21.7	11.27	2.100	1.93	-205.8		
1450	.9		21.7	11.31	2.095	1.71	-216.3		
1455	1.2		21.7	11.31	2.090	1.65	-219.1		
1500	1.5		21.8	11.34	2.094	1.59	-223.4		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO36-PZMO43	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: LMA

Comments: NO sheen

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 Quarterly	Project Number: 180227
Well Number: C036-PZM008	Date: 6/19/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 6.36	Flow Rate (mL/min) 300
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 14	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
1350	0		22.2	11.92	1.727	5.82	-154.7		
1355	.3		21.2	11.75	1.779	3.59	-179.6		
1400	.6		21.2	11.59	1.662	2.73	-185.8		
1405	.9		21.7	11.45	1.329	2.44	-179.8		
1410	1.2		21.8	11.32	1.099	2.64	-161.1		
1415	1.5		21.7	11.30	1.064	2.72	-152.2		
1420	1.8		21.8	11.26	1.059	2.72	-145.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C036-PZM008	1425	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: LMG

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 Quarterly	Project Number: 180227
Well Number: C038-PZM0006	Date: 6/19/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): -	QED Controller Settings:
Depth to Water (ft): 6.12	Flow Rate (mL/min) 300
Product Thickness (ft): -	Length of time Purged (min)
Depth to Bottom (ft): 11.0	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
1143	0		22.8	10.57	2.718	6.29	-196.9		
1148	.3		21.1	10.49	2.650	3.28	-236.2		
1153	.6		21.3	10.46	2.630	2.50	-254.0		
1158	.9		21.1	10.51	2.633	2.14	-259.5		
1203	1.2		21.1	10.46	2.606	1.93	-261.3		
1208	1.5		21.4	10.40	2.594	1.79	-260.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C038-PZM0006	1213	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: LMG

Comments:
VOC+H2O

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 Quarterly	Project Number: 180229
Well Number: C038-PZM043	Date: 6/19/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 3.88	Flow Rate (mL/min) 300
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 50	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
1218	0		21.1	8.90	1.588	4.14	-203.3		
1223	.3		20.7	7.76	1.464	2.42	-195.3		
1228	.6		20.5	7.62	1.464	1.98	-192.4		
1233	.9		20.2	7.57	1.462	1.78	-191.1		
1238	1.2		20.0	7.57	1.463	1.70	-191.3		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C038-PZM043	1243	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: LMG

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: COD Quarterly	Project Number: 180227
Well Number: CO27-PZMW46	Date: 10/19/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 7.38	Flow Rate (mL/min) 300
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 52	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
1031	0		21.9	9.36	1.129	4.41	-196.7		
1036	.3		21.4	7.94	1.108	2.40	-230.3		
1041	.6		20.8	7.62	1.105	1.96	-200.6		
1046	.9		20.6	7.46	1.102	1.75	-196.0		
1051	1.2		20.5	7.41	1.102	1.62	-195.3		
1056	1.5		20.9	7.40	1.102	1.54	-198.5		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO27-PZMW46	1101	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: LMG

Comments:
VOC Trip

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: LSA Quarterly	Project Number: 150229
Well Number: ~~C027-PZM012~~ C027-PZM012	Date: 6/19/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 3.99	Flow Rate (mL/min) 300
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 17.5	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
0953	0		17.5	11.39	1.689	6.03	-213.1		
0958	.3		20.0	11.39	1.634	3.34	-249.0		
1003	.6		20.4	11.36	1.609	2.66	-262.0		
1008	.9		20.1	11.31	1.567	2.33	-267.8		
1013	1.2		20.3	11.34	1.528	2.09	-275.1		
1018	1.5		20.4	11.36	1.511	2.05	-279.4		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C027-PZM012	1023	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: LMG

Comments:
VOC dup

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: COM Quarterly	Project Number: 180227
Well Number: C040-PZM008	Date: 6/19/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 6.94	Flow Rate (mL/min) 300
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 18	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
0904	0		18.2	8.54	3.187	7.29	-15.0		
0909	.3		20.1	7.87	3.241	4.69	-3.8		
0914	.6		20.3	7.69	3.241	3.72	-3.0		
0919	.9		20.5	7.64	3.203	3.23	-22.2		
0924	1.2		20.6	7.63	3.217	2.88	-53.4		
0929	1.5		20.6	7.64	3.233	2.61	-63.1		
0934	1.8		20.6	7.65	3.249	2.42	-69.5		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C040-PZM008	0939	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: LMG

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 Quarterly	Project Number: 180227
Well Number: C039-PZM007	Date: 6/18/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 6.72	Flow Rate (mL/min): 300
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 18	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
1315	0		21.6	11.22	2.983	5.19	-201.8		
1320	.3		21.8	11.21	2.994	3.94	-234.1		
1325	.6		21.9	11.19	2.988	3.10	-254.7		
1330	.9		21.6	11.24	3.005	2.68	-265.8		
1335	1.2		20.9	11.11	3.000	2.45	-264.0		
1340	1.5			11.02	3.002	2.27	-263.2		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C039-PZM007	1345	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: LMG

Comments: Turb inoperable
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: CAA Quarterly	Project Number: 180227
Well Number: C042 - PZM004	Date: 6/18/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 7.92	Flow Rate (mL/min) 300
Product Thickness (ft): -	Length of time Purged (min)
Depth to Bottom (ft): 16	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
1425	0		18.2	9.68	1.159	6.13	-174.8		
1430	.3		19.2	8.68	1.135	3.41	-201.8		
1435	.6		18.9	8.38	1.139	2.81	-199.8		
1440	.9		19.0	8.22	1.133	2.48	-206.9		
1445	1.2		19.9	8.25	1.125	2.20	-224.9		
1450	1.5		20.1	8.33	1.125	2.09	-233.5		
1455	1.8		20.1	8.31	1.120	2.00	-241.8		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C042-PZM004	1500	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: LMG

Comments: hub inoperable
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 Quarterly	Project Number: 180227
Well Number: C039-PZM042	Date: 6/18/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 8.23	Flow Rate (mL/min) 300
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 46.5	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
1350	0		17.9	11.92	2.944	4.21	-294.0		
1355	.3		20.1	11.88	2.978	2.80	-310.3		
1400	.6		20.0	11.90	2.987	2.31	-320.6		
1405	.9		20.1	11.90	2.981	2.06	-327.6		
1410	1.2		20.0	11.90	2.974	1.96	-330.5		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C039-PZM042	1415	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: LMG

Comments: turb inoperable
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: LOA Quarterly	Project Number: 180229
Well Number: CO37-PZM038	Date: 6/18/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 12.23	Flow Rate (mL/min) 300
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 51	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
1132	0		21.1	11.99	2.064	6.12	-285.1		
1137	.3		20.4	11.85	2.227	3.81	-301.9		
1142	.6		20.5	11.81	2.280	3.00	-307.1		
1147	.9		20.4	11.85	2.310	2.56	-309.6		
1152	1.2		20.2	11.78	2.319	2.33	-309.4		
1157	1.5		20.2	11.77	2.318	2.19	-309.2		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO37-PZM038	1202	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: LMG

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 Quarterly	Project Number: 180225
Well Number: CO2-PZM006	Date: 10/18/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): --	QED Controller Settings:
Depth to Water (ft): 14.61	Flow Rate (mL/min) 325
Product Thickness (ft): -	Length of time Purged (min)
Depth to Bottom (ft): 19	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
0955	0		22.2	7.75	1.008	6.27	-89.0	3.5	
1000	.3		21.6	7.96	0.986	4.46	-123.1	*	
1005	.6		22.5	8.06	0.999	3.63	-137.6		
1010	.9		22.7	7.94	1.005	3.11	-151.7		
1015	1.2		22.8	7.85	1.009	2.80	-174.1		
1020	1.5		22.7	7.88	1.004	2.54	-226.3		
1025	1.8		23.0	7.79	1.001	2.32	240.5		
1030	2.1		23.2	7.81	1.003	2.19	254.4		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO2-PZM006	1035	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: LMG

Comments: turb inoperable ORP dn stb. bc VOC + mph

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 Quarterly	Project Number: 180228
Well Number: C018-PZM006	Date: 6/18/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 12.03	Flow Rate (mL/min): 310
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 20	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
1426	0		21.2	7.94	1.617	5.24	-185.3	283.0	
1431	.3		22.8	7.02	1.655	3.08	-157.4	21.7	
1436	.6		25.9	6.98	1.665	2.48	-154.7	28.0	
1441	.9		26.0	6.91	1.662	2.89	-127.6	*	
1446	1.2		25.9	6.84	1.651	3.77	-110.9		
1451	1.4		26.0	6.84	1.647	4.38	-106.5		
~~1456~~									

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C018-PZM006	6/18/19	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: LMG

Comments: turb not working
VOC smell purged dry

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: CSA Quarterly	Project Number: 180227
Well Number: CO103-PZMxxx	Date: 6/17/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 12.89	Flow Rate (mL/min): 320
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 20.8	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
0852	0		18.5	12.09	3.197	10.68	4.8	36.1	
0857	.3		18.3	11.88	1.633	4.63	-19.7	45.2	
0902	.6		18.2	11.75	1.343	3.69	-17.4	56.0	
0907	.9		17.9	11.76	1.307	3.15	-17.4	73.3	
0912	1.2		17.9	11.71	1.287	2.87	-15.3	88.5	
0917	1.5		18.1	11.69	1.252	2.73	-14.9	99.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO103-PZMxxx	0922	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: LMG

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 Quarterly	Project Number: 150227
Well Number: C0104 - PZMxxx	Date: 6/17/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 12.88	Flow Rate (mL/min): 300
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 19.1	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
0930	0		18.1	10.75	2.861	7.65	34.8	1.8	
0935	.3		17.9	10.54	2.790	7.16	41.0	1.9	
0940	.6		18.1	10.21	2.629	7.29	45.5	12.5	
0945	.9		18.0	10.25	2.536	7.63	44.6	26.2	
0950	1.2		12.8	10.35	2.549	7.50	43.6	4.8	
0955	1.5		17.9	10.45	2.546	7.20	42.0	5.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0104-PZMxxx	1000	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: LMG

Comments:
VOC 9 mph

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: CSA Quarterly	Project Number: 180225
Well Number: CO102-PZMxxx	Date: 6/19/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 12.37	Flow Rate (mL/min) 305
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 19.5	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
1037	0		18.9	12.08	1,833	6.98	-29.8	3.9	
1042	.3		19.7	11.95	1,851	4.36	-49.2	7.9	
1047	.6		19.8	11.95	1,859	3.40	-64.6	16.5	
1052	.9		19.9	11.96	1,861	2.95	-74.1	23.8	
1057	1.2		20.0	11.96	1,862	2.65	-81.4	32.0	
1102	1.5		19.9	11.96	1,823	2.44	-87.4	41.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO102-PZMxxx	1102	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: LMG

Comments:
VOC's 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: COA Quarterly	Project Number: 180227
Well Number: C030 - P2M015	Date: 6/17/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 11.93	Flow Rate (mL/min) 300
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 28	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
1150	0		18.6	12.12	2.640	7.02	-42.1	7.5	
1155	.3		19.4	11.92	2.722	4.00	-50.1	7.6	
1200	.6		19.6	11.96	2.728	3.26	-71.0	20.9	
1205	.9		19.1	11.96	2.734	2.78	-78.8	49.2	
1210	1.2		19.3	11.98	2.727	2.48	-86.2	134.2	
1215	1.5		19.4	11.99	2.730	2.31	-90.7	195.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C030-P2M015	1220	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: LMG

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 Quarterly	Project Number: 180227
Well Number: C030-PZM060	Date: 6/17/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 13.69	Flow Rate (mL/min) 300
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 23	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
1230	0		20.8	8.18	10.123	4.53	-215.2	94.0	
1235	.3		20.3	7.50	10.091	2.92	-149.0	104.0	
1240	.6		20.1	7.29	10.080	2.43	-163.9	86.4	
1245	.9		20.6	7.23	10.096	2.23	-158.7	53.0	
1250	1.2		20.2	7.18	10.082	2.08	-153.1	45.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C030-PZM060	1255	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: LMG

Comments:
VOC w/ 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 Quarterly	Project Number: 180227
Well Number: C093-PZMxxx	Date: 6/17/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 10.42	Flow Rate (mL/min) 315
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 20	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
1336	0		18.6	8.79	0.540	5.59	-76.9	6.5	
1341	.3		20.1	8.61	0.450	4.20	-205.3	15.3	
1346	.6		19.8	8.80	0.460	3.32	-314.1	26.1	
1351	.9		19.7	10.10	0.853	2.79	-399.6	54.3	
1356	1.2		19.4	11.56	1.382	2.26	-446.6	53.3	
1401	1.5		19.2	11.66	1.497	2.14	-447.9	61.2	
1406	1.8		19.2	11.74	1.601	1.96	-449.8	76.9	
1411									

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C093-PZMxxx	1411	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: LMG

Comments:
VOC + map

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:	Project Number:
Well Number: C028-PZM010	Date: 9/26/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 11.56	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 61.55	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
0840		12.00	21.0	8.72	0.839	8.69	125.1	15.8	
0845		12.04	20.3	9.51	0.807	7.18	69.4	16.3	
0850		12.05	19.9	9.65	0.810	6.54	-9.4	18.1	
0855		12.07	19.7	9.80	0.815	6.10	-76.0	19.9	
0900		12.09	19.4	9.98	0.823	5.73	-114.6	28.4	
0905		12.11	19.3	10.15	0.833	5.43	-140.9	32.5	
0910		12.13	19.2	10.20	0.838	5.26	-150.7	35.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C028-PZM010	0915	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: JMB

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:	Project Number:
Well Number: C028-PZM048	Date: 9/26/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 11.11	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 22.12	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
0925		11.11	23.2	8.83	8.628	7.03	-20.9	11.0	
0930		11.12	22.9	8.50	9.374	6.74	4.7	17.5	
0935		11.12	22.9	8.44	9.561	6.71	18.2	27.1	
0940		11.13	22.8	8.41	9.620	6.70	27.2	36.6	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C028-PZ048	0945	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: JMB

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:	Project Number:
Well Number: COO-MW5	Date: 9/26/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 11.51	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 17.74	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
0954		11.56	20.9	10.97	6.897	6.95	-13.8	27.9	
0959		11.56	21.2	11.44	5.782	5.97	-59.4	15.9	
1004		11.56	21.0	11.56	5.682	5.51	-73.4	22.0	
1009		11.56	21.0	11.57	5.855	5.27	-78.9	32.3	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COO-MW5	1014	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: JMB

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:	Project Number:
Well Number: COO-MWI	Date: 9/26/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 11.49	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 53.73	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
1025		11.48	19.3	11.79	1.838	6.70	-80.7	14.8	
1030		11.50	18.6	11.63	1.847	5.65	-90.0	15.2	
1035		11.50	18.3	11.65	1.991	5.45	-82.1	15.1	
1040		11.50	18.1	11.83	2.752	5.19	-75.9	17.3	
1045		11.51	18.2	11.88	3.980	4.95	-61.1	27.5	
1050		11.52	18.2	11.92	4.090	4.80	-59.2	36.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COO-MWI	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: JMB

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:	Project Number:
Well Number: CON-MW5	Date: 9/26/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 10.94	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 17.75	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
1109		10.96	19.2	11.91	4.681	6.58	-16.0	33.7	
1114		10.97	18.7	11.81	4.876	5.59	-8.9	28.3	
1119		11.00	18.1	11.82	4.884	6.27	-11.3	35.7	
1124		11.00	18.2	11.83	4.889	4.99	-13.6	44.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CON-MW5	1129	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: JMB

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 Resources Engineers and Consultants

Project Name:	Project Number:
Well Number: CON-MWI	Date: 9/26/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 10.93	Flow Rate (mL/min)
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 52.80	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
1143		10.94	17.8	12.08	2.696	6.47	-22.1	13.0	
1148		10.94	17.3	11.86	2.699	5.65	-17.5	16.5	
1153		10.95	17.1	11.82	2.733	5.22	-22.0	19.7	
1158		10.95	17.1	11.84	3.210	4.92	-24.6	28.4	
1203		10.95	17.1	11.86	3.710	4.72	-22.6	37.7	
1208		10.95	17.1	11.89	3.736	4.57	-21.6	51.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CON-MWI	1213	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: JMB

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:	Project Number:
Well Number: C036-PZM008	Date: 9/26/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 6.00	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 14.17	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
1238		6.15	23.1	11.91	2.367	7.00	17.3	19.8	
1243		6.28	23.4	11.62	2.087	5.87	22.5	26.6	
1248		6.49	23.4	11.28	1.757	5.27	24.4	46.6	
1253		6.55	23.5	11.19	1.478	5.15	24.0	60.2	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C036-PZM008	1258	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: JMB

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:	Project Number:
Well Number: C036-PZM043	Date: 9/26/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 6.85	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 51.99	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
1309		7.08	19.5	11.47	2.426	6.63	21.0	139.3	
1314		7.20	18.9	11.24	2.420	5.56	30.8	284.1	
1319		7.20	18.8	11.24	2.417	5.13	27.1	343.8	
1324		7.20	18.9	11.25	2.400	4.85	23.6	75.3	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C036-PZM043	1329	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: JMB

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:	Project Number:
Well Number: COK-MW5	Date: 9/27/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 5.68	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 17.21	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
0758		5.68	16.2	9.30	1.881	9.11	38.5	10.2	
0803		5.71	16.2	10.45	1.745	7.57	-177.4	9.8	
0808		5.72	16.2	10.60	1.757	6.78	-226.3	11.1	
0813		5.73	16.3	10.64	1.793	6.24	-249.6	11.6	
0818		5.73	16.3	10.67	1.825	5.81	-265.0	12.8	
0823		5.73	16.4	10.65	1.844	5.56	-272.9	14.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COK-MW5	0828	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: JMB

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:	Project Number:
Well Number: COK-MW1	Date: 9/27/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 8.70	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 51.38	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
0836		8.75	16.3	9.80	1.764	6.88	-188.7	8.2	
0841		8.76	16.0	9.31	1.756	5.90	-237.1	10.0	
0846		8.76	16.0	9.20	1.760	5.30	-276.2	14.2	
0851		8.76	16.0	9.15	1.761	4.89	-292.5	19.0	
0856		8.76	15.9	9.13	1.762	4.45	-304.2	20.0	
0901		8.76	16.0	9.11	1.763	4.12	-311.7	31.7	
0906		8.76	16.0	9.11	1.765	3.85	-316.6	39.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COK-MW1	0911	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: JMB

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:	Project Number:
Well Number: C038-PZM043	Date: 9/27/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 6.84	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 49.60	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
0929		7.95	18.0	8.78	1.517	6.09	-126.4	16.7	
0934		8.23	17.8	7.93	1.492	4.92	-154.3	15.7	
0939		8.40	17.7	7.70	1.488	4.44	-161.1	16.2	
0944		8.54	17.6	7.58	1.484	4.14	-164.5	23.4	
0949		8.59	17.6	7.53	1.480	3.92	-166.1	31.4	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C038-PZM043	0954	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: JMB

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:	Project Number:
Well Number: C038-PZM006	Date: 9/27/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 5.89	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 15.70	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
1006		5.94	20.0	9.38	2.196	5.60	-175.2	32.1	
1011		5.96	20.4	9.92	2.180	4.54	-236.0	75.0	
1016		5.97	20.9	9.96	2.196	4.01	-261.1	52.7	
1021		5.97	21.1	9.98	2.203	3.66	-279.9	73.3	
1026		5.97	21.1	9.99	2.210	3.42	-289.1	68.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C038-PZM006	1031	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: JMB

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:	Project Number:
Well Number: COQ-MW1	Date: 9/27/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 6.51	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 52.64	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
1047		6.56	18.0	10.50	1.800	6.03	-136.2	18.1	
1052		6.58	17.3	10.65	1.853	4.91	-208.7	11.2	
1057		6.58	17.1	10.69	1.883	4.34	-252.7	21.2	
1102		6.58	17.2	10.71	1.888	3.91	-282.5	49.6	
1107		6.58	17.2	10.72	1.896	3.72	-297.0	68.7	
1112		6.58	17.2	10.73	1.912	3.47	-310.9	120.8	
1117		6.58	17.2	10.72	1.905	3.33	-318.6	135.4	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COQ-MW1	1122	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: JMB

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:	Project Number:
Well Number: COP-MWI	Date: 9/27/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 8.32	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 53.58	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
1137		8.57	17.9	9.18	1.141	5.93	-118.1	150.6	
1142		8.60	17.1	8.07	1.105	4.66	-166.0	1112.0	
1147		8.60	17.2	7.64	1.098	4.15	-163.4	1078.6	
1152		8.60	17.2	7.39	1.101	3.78	-159.9	1125.3	
1157		8.60	17.1	7.25	1.103	3.50	-158.5	1155.9	
1202		8.61	17.1	7.17	1.103	3.28	-156.8	804.3	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COP-MWI	1207	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: JMB

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:	Project Number:
Well Number: C040 - PZM008	Date: 9/27/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 6.70	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 17.60	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
1240		6.75	21.0	7.95	3.203	6.02	-14.2	19.9	
1245		6.76	20.2	8.05	3.103	4.68	-189.0	35.0	
1250		6.77	20.2	8.38	3.144	4.06	-259.8	36.0	
1255		6.77	20.2	8.62	3.191	3.45	-288.9	30.8	
1300		6.77	20.1	8.78	3.232	2.95	-308.5	14.5	
1305		6.79	20.1	8.97	3.294	2.38	-323.9	12.3	
1310		6.81	20.1	9.14	3.358	1.93	-334.7	10.1	
1315		6.82	20.1	9.24	3.387	1.72	-340.1	11.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C040-PZM008	1320	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: JMB

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:	Project Number:
Well Number: C042-P2M004	Date: 9/27/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 8.60	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 16.35	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
1333		8.98	19.1	9.05	1.222	3.61	-156.1	10.2	
1338		9.35	19.8	8.50	1.189	2.81	-202.7	17.9	
1343		10.10	19.9	8.67	1.174	2.52	-266.2	25.4	
1348		10.80	19.7	9.18	1.150	2.34	-300.4	34.5	
1353		10.86	19.6	9.16	1.173	2.23	-297.2	42.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C042-P2M004	1358	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C0104-PZM	Date: 9/30/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 12.50	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 19.27	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
0815		12.61	19.7	5.79	6.047	9.62	254.8	16.6	
0820		12.75	20.4	7.67	7.331	9.14	198.3	6.7	
0825		12.85	21.0	8.29	8.488	8.89	179.6	7.7	
0830		12.94	21.2	8.53	9.194	8.72	173.7	9.1	
0835		13.03	21.2	8.66	9.816	8.49	170.4	11.1	
0840		13.04	21.2	8.75	8.815	8.30	168.4	14.4	
0845		13.04	21.2	8.81	9.234	8.12	167.2	17.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0104-PZM	0850	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COF-MW5	Date: 9/30/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 13.60	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 38.14	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
0904		13.62	17.7	12.43	9.166	8.74	46.6	7.2	
0909		13.62	17.1	12.63	11.584	7.31	-1.7	34.0	
0914		13.62	17.1	12.70	12.257	6.76	-19.0	60.8	
0919		13.62	17.0	12.72	12.484	6.37	-26.8	102.5	
0924		13.62	17.1	12.71	12.574	6.08	-30.5	126.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COF-MW5	0929	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COG - MW5	Date: 9/30/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 12.88	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 37.74	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
0944		12.88	18.4	12.61	6.934	7.97	-3.1	7.1	
0949		12.88	17.6	12.42	7.248	6.82	1.4	9.8	
0954		12.88	17.6	12.38	7.532	6.24	-0.4	21.3	
0959		12.89	17.6	12.37	7.583	5.86	-3.0	27.1	
1004		12.89	17.5	12.36	7.583	5.62	-4.7	38.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COG - MW5	1009	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C030-PZM015	Date: 9/30/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 11.44	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 27.84	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
1027		11.44	18.6	12.43	3.745	7.21	1.3	9.3	
1027		11.44	18.5	12.20	3.712	6.29	7.1	16.9	
1032		11.44	18.4	12.15	3.671	5.78	7.4	46.8	
1037		11.44	18.4	12.13	3.652	5.49	7.3	85.2	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C030-PZM015	1042	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C030-PZM060	Date: 9/30/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 13.20	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 23.10	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
1051		13.35	18.9	9.82	13.338	6.81	-249.4	10.4	
1056		13.36	18.0	8.24	13.543	5.34	-234.7	11.2	
1101		13.43	17.9	7.89	13.542	4.58	-220.7	14.4	
1106		13.43	17.8	7.70	13.534	4.10	-212.3	39.0	
1111		13.43	17.7	7.61	13.542	3.83	-205.8	53.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C030-PZM060	1116	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COH-MW5	Date: 9/30/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 12.93	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 39.01	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
1130		12.95	19.1	11.70	2.468	5.22	-276.6	17.1	
1135		12.95	18.6	12.04	3.195	4.67	-313.8	40.9	
1140		12.95	18.5	12.13	3.353	4.40	-316.0	56.4	
1145		12.95	18.4	12.17	3.374	4.29	-313.7	74.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COH-MW5	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: JMB

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:	Project Number:
Well Number: COI-MWS	Date: 9/30/09
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 12.48	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 35.64	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
1209		12.48	21.0	11.66	5.548	5.79	-70.0	29.4	
1214		12.48	20.5	11.43	7.970	5.08	-115.7	29.3	
1219		12.49	20.4	11.45	8.095	4.82	-132.5	35.7	
1224		12.50	20.4	11.48	7.955	4.63	-139.7	42.6	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COI-MWS	1229	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: JMB

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:	Project Number:
Well Number: COT-MW5	Date: 9/30/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 13.05	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 27.91	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
1257		13.05	18.5	11.48	3,490	6.33	-69.2	28.8	
~~1302~~		13.05	17.9	11.64	3,417	5.73	-77.7	30.5	
1307		13.05	18.0	11.66	3,373	5.42	-85.5	39.7	
1312		13.05	18.0	11.67	3,247	5.22	-89.1	53.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COT-MW5	1317	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COB-MW5	Date: 10/1/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 13.29	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 24.65	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
0806		13.29	17.4	11.83	7.308	9.05	[illegible]4	38.0	
0811		13.29	16.8	12.14	8.554	8.11	-52.5	21.6	
0816		13.29	16.7	12.22	8.360	7.61	-80.8	25.8	
0821		13.29	16.7	12.24	8.616	7.27	-96.5	33.3	
0826		13.29	16.7	12.25	8.764	7.08	-109.1	45.5	
0831		13.29	16.8	12.28	8.847	6.81	-119.0	79.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COB-MW5	0836	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COC-MWS	Date: 10/1/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 13.37	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 38.42	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
0853		13.37	18.7	12.65	2.900	8.04	-70.7	31.5	
0858		13.37	18.5	12.36	2.812	7.26	-66.2	28.6	
0903		13.37	18.4	12.30	2.810	6.83	-72.8	35.7	
0908		13.37	18.4	12.28	2.811	6.57	-78.3	60.2	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COC-MWS	0913	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C0103-PZM	Date: 10/1/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 12.44	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 20.60	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
0928		12.56	19.0	12.62	4.393	7.79	-76.8	13.9	
0933		12.57	19.0	12.31	3.727	6.92	-70.7	18.3	
0938		12.57	19.3	12.16	2.462	6.54	-74.8	33.9	
0943		12.57	19.4	12.07	1.780	6.33	-76.4	46.8	
0948		12.57	19.5	12.00	1.530	6.24	-76.9	58.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0103-PZM	0953	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: JMB

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:	Project Number:
Well Number: C0101 - PMWZM	Date: 9/30/19 - 10/1/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 11.98	Flow Rate (mL/min) 400 → 25C
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 14.60	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
1241		12.78	23.5	10.07	5.974	5.75	-38.3	24.4	
1246			dewatered						
1251									
1256									

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0101 - PZM	10/1/19 1005	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COD-MW5	Date: 10/1/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 12.74	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 30.94	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
1039		12.74	20.1	12.27	2.246	8.03	-43.1	41.9	
1044		12.74	19.5	11.96	2.226	7.00	-46.8	32.9	
1049		12.74	19.5	11.96	2.224	6.55	-59.9	47.0	
1054		12.74	19.3	11.96	2.221	6.26	-63.2	71.6	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COD-MW5	1059	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C0102-PZM	Date: 10/1/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 11.84	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 19.33	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
1115		11.84	21.2	12.20	2.309	7.69	-55.6	20.5	
1120		11.84	19.7	11.92	2.241	6.74	-43.7	16.9	
1125		11.84	19.7	11.86	2.206	6.38	-47.4	23.5	
1130		11.84	19.5	11.86	2.217	6.00	-52.5	29.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0102-PZM	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COE-MW5	Date: 10/1/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 13.01	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 27.80	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
1147		13.01	18.6	11.97	1.900	7.38	-51.9	46.5	
1152		13.01	17.8	11.60	1.816	6.53	-41.1	53.2	
1157		13.01	17.7	11.58	1.886	6.13	-46.6	91.1	
1202		13.01	17.8	11.57	1.920	5.87	-52.2	121.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COE-MW5	1207	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COA-MW5	Date: 10/1/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 14.67	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 37.76	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
1224		14.67	20.0	12.11	1.890	7.37	-52.8	51.1	
1229		14.67	19.4	11.76	1.878	6.49	-54.9	97.1	
1234		14.67	19.2	11.73	1.873	6.05	-73.4	247.8	
1239		14.67	19.2	11.73	1.872	5.78	-87.2	352.9	
1244		14.67	19.1	11.74	1.874	5.58	-99.0	403.3	
1249		14.67	19.2	11.74	1.875	5.41	-108.2	429.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COA-MW5	1254	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: TMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COM-MW5	Date: 10/2/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 6.92	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 17.71	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
0809	[illegible]	7.00	17.5	11.79	5.674	8.67	-7.6	37.5	
0814		7.03	17.8	11.94	5.975	7.86	-86.4	27.1	
0819		7.04	17.9	12.05	6.251	7.31	-157.1	25.2	
0824		7.04	18.2	12.07	6.359	6.98	-191.8	19.5	
0829		7.04	18.3	12.10	6.479	6.75	-211.6	15.9	
0834		7.05	18.4	12.12	6.632	6.49	-233.3	15.7	
0839		7.05	18.5	12.15	6.770	6.27	-253.8	33.3	
0844		7.05	18.6	12.18	6.887	6.10	-263.0	26.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COM-MW5	0849	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COM-MW1	Date: 10/2/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 9.51	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 52.90	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
0855		9.51	17.3	11.45	1.435	7.26	-155.9	9.6	
0900		9.51	17.0	10.84	1.305	6.53	-247.5	13.9	
0905		9.51	17.0	10.72	1.291	6.18	-292.2	24.2	
0910		9.51	17.1	10.68	1.285	5.93	-312.6	50.0	
0915		9.51	17.1	10.66	1.280	5.70	-324.4	78.9	
0920		9.51	17.0	10.64	1.278	5.52	-331.2	126.4	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COM-MW1	0925	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C039 - P2M007	Date:
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 6.70	Flow Rate (mL/min)
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 17.98	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
0940		7.40	19.1	11.63	2.755	7.09	-169.2	14.7	
0945		7.50	19.1	11.56	2.820	6.08	-334.6	23.5	
0950		7.61	19.8	11.56	2.839	5.53	-364.7	57.1	
0955		7.63	20.3	11.51	2.871	5.18	-380.6	85.2	
1000		7.65	20.4	11.48	3.004	4.90	-389.3	99.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C039 - P2M007	1005	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C039-PZM042	Date: 10/2/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 7.79	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 46.00	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
1010		7.82	18.2	12.07	3.350	5.70	-336	21.7	
1015		7.85	17.8	11.94	3.344	5.16	-367.1	96.9	
1020		7.85	17.8	11.91	3.386	4.81	-388.6	177.6	
1025		7.85	17.7	11.84	3.127	4.61	-392.3	205.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C039-PZM042	1030	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:		Project Number:	
Well Number:	C003-PZM005	Date:	10/2/19
Well Diameter (in):		One Well Volume (gal):	
Depth to Product (ft):		QED Controller Settings:	
Depth to Water (ft):	2.06	Flow Rate (mL/min)	400
Product Thickness (ft):		Length of time Purged (min)	
Depth to Bottom (ft):	16.45	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
1046		2.10	20.8	9.92	0.759	6.10	-113.7	104.2	
1051		2.10	20.4	8.83	0.797	5.31	-171.4	56.3	
1056		2.10	20.6	8.24	0.909	4.87	-213.9	95.5	
1101		2.10	20.7	8.01	0.954	4.54	-222.0	167.3	
1106		2.10	20.8	7.89	0.972	4.32	-227.5	172.7	
1111		2.10	20.9	7.80	0.984	4.12	-229.4	227.6	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C003-PZM005	1116	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COT - MW5	Date: 10/2/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 10.59	Flow Rate (mL/min)
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 23.37	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
1129		10.59	20.5	11.60	2.110	5.72	-221.0	51.6	
1134		10.59	19.7	11.45	2.143	4.80	-295.0	61.8	
1139		10.59	19.7	11.41	2.006	4.36	-320.6	109.7	
1144		10.59	19.8	11.21	1.644	4.07	-330.3	174.0	
1149		10.59	19.8	11.13	1.544	3.90	-337.3	216.4	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COT - MW5	1154	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C041-PZM036	Date: 10/2/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 13.06	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 50.23	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
1218		13.09	21.4	11.17	1.743	6.04	-166.4	116.5	
1223		13.09	20.4	10.88	1.797	5.01	-255.8	89.9	
1228		13.09	20.3	11.00	1.827	4.58	-285.3	103.5	
1233		13.09	20.0	11.02	1.835	4.23	-305.3	133.4	
1238		13.09	20.3	11.00	1.834	4.07	-315.6	164.4	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C041-PZM036	1243	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C041-PZM001	Date: 10/2/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 12.39	Flow Rate (mL/min) 400 → 350
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 16.01	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
1247		12.46	25.4	8.51	1.390	4.91	-142.8	12.8	
1252		12.49	25.3	8.29	1.388	4.24	-160.5	11.9	
1257		12.49	25.5	7.91	1.408	3.27	-211	11.6	
1302		12.50	25.6	7.82	1.408	3.38	-252.1	15.2	
1307		12.50	26.6	7.73	1.391	3.02	-271.8	20.5	
1312		12.51	25.7	7.68	1.390	2.63	-281.7	22.6	
1317		12.51	25.7	7.64	1.372	2.39	-286.3	30.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C041-PZM001	1322	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: JMB

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:	Project Number:
Well Number: C0100-PZM	Date: 10/7/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 10.48	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 17.19	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
0814		10.68	19.5	6.31	1.379	8.87	-108.1	28.1	
0819		10.95	19.5	6.85	1.184	5.90	-255.7	30.9	
0824		11.05	19.8	6.90	1.161	4.00	-265.1	30.4	
0829		11.20	19.8	6.94	1.132	2.86	-272.8	15.4	
0834		11.30	19.7	6.94	1.120	2.27	-277.1	9.3	
0839		11.41	19.7	6.93	1.117	1.87	-281.6	6.9	
0844		11.43	19.7	6.92	1.116	1.63	-284.5	4.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0100-PZM	0849	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: JMB

Comments: Initial black (DNAPL?) material came up when pumping began result: determined by DNAPL

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C093-PZM	Date: 10/7/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 10.74	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 19.51	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
0905		11.21	19.3	11.00	1.509	2.79	-415.8	4.5	
0910		11.28	18.6	11.53	2.163	1.23	-447.1	15.3	
0915		11.28	18.5	11.56	2.381	1.05	-452.1	9.4	
0920		11.28	18.5	11.58	2.453	1.00	-454.5	10.4	
0925		11.28	18.4	11.60	2.510	0.98	-456.7	13.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C093-PZM	0930	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C018 - P2M006	Date: 10/7/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 12.12	Flow Rate (mL/min) 400 → 350
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 30.05	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
0946		13.65	21.5	8.01	2.237	1.37	-205.7	36.6	
0951		13.89	22.1	7.01	2.264	1.06	-122.4	39.3	
0956		14.21	21.6	6.73	2.319	1.09	-168.9	41.8	
1001		14.45	21.8	6.64	2.386	1.13	-167.6	43.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C018-P2M006	1006	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COU-MW5	Date: 10/7/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 13.28	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 24.10	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
1023		13.28	22.2	7.41	1.674	4.07	-71.1	40.0	
1028		13.28	20.3	7.58	1.505	2.59	-137.6	72.0	
1033		13.28	20.5	7.62	1.454	2.17	-157.9	162.0	
1038		13.29	20.6	7.62	1.420	1.95	-171.6	206.4	
1043		13.29	20.6	7.62	1.374	1.81	-183.0	287.3	
1048			20.6	7.61	1.351	1.74	-190.4	294.3	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COU-MW5	1048 1053	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: JMB

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:	Project Number:
Well Number: C002- PZM-041	Date: 10/7/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 15.40	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 52.00	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
1113		15.60	22.5	6.94	2.696	4.35	-108.4	200.e	
1118		15.65	21.2	6.70	2.793	3.18	-117.9	306.8	
1123		15.67	21.0	6.67	2.782	2.68	-125.0	324.1	
1128		15.70	20.8	6.66	2.771	2.36	-130.7	330.7	
1133		15.72	20.6	6.65	2.760	2.18	-134.6	439.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C002- PZM041	1138	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C002-PZM006	Date: 10/9/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 14.80	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 18.80	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
1150		14.82	22.6	7.23	1.192	3.62	-109.9	127.8	
1155		14.82	22.8	7.79	1.205	2.49	-201.8	5.25	
1200		14.83	22.9	7.79	1.173	2.15	-241.8	293.4	
1205		14.83	23.0	7.89	1.162	1.92	-259.3	229.6	
1210		14.83	23.1	7.84	1.162	1.77	-279.2	167.1	
1215		14.83	23.2	7.83	1.171	1.65	-288.4	126.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C002-PZM006	1220	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COY-MWS	Date: 10/7/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 12.39	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 22.60	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
1243		12.39	19.3	11.19	1.081	4.76	-225.1	50.8	
1248		12.39	19.1	11.20	1.187	3.38	-257.6	51.4	
1253		12.39	19.1	11.22	1.266	2.69	-310.5	62.7	
1258		12.39	19.1	11.24	1.295	2.40	-339.1	76.6	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COY-MWS	1303	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: CO2-MW5	Date: 10/7/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 13.53	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 23.66	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
1322		13.53	20.8	9.15	1.512	4.70	-142.8	38.1	
1327		13.53	19.8	8.05	1.467	3.41	-190.4	45.0	
1332		13.53	19.7	7.72	1.451	2.78	-202.0	58.3	
1337		13.53	19.8	7.64	1.343	2.39	-242.6	67.7	
1342		13.53	19.8	7.64	1.324	2.12	-256.8	62.9	
1347		13.53	19.9	7.61	1.315	1.91	-269.4	70.2	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO2-MW5	1352	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: TMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COX-MW5	Date: 10/7/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 14.34	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 24.26	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
1408		14.44	24.1	7.33	2.900	4.13	-144.8	81.4	
1413		14.45	23.7	6.92	2.815	2.72	-157.2	102.3	
1418		14.45	23.6	6.97	2.732	2.18	-176.1	121.9	
1423		14.46	23.5	7.02	2.742	1.92	-188.5	120.1	
1428		14.46	23.6	7.03	2.716	1.74	-194.5	82.3	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COX-MW5	1433	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C016-PZM006	Date: 10/8/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft):	Flow Rate (mL/min) 400
Product Thickness (ft): 11.70	Length of time Purged (min)
Depth to Bottom (ft): 18.20	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
0805		11.74	18.3	9.42	0.912	9.12	-59.2	20.6	
0810		11.75	18.2	10.95	1.068	6.64	-206.1	20.6	
0815		11.75	18.2	11.07	1.238	5.71	-244.6	21.1	
0820		11.76	18.2	11.13	1.355	5.10	-255.3	23.5	
0825		11.76	18.3	11.14	1.372	4.71	-262.4	23.8	
0830		11.76	18.3	11.14	1.353	4.45	-265.1	36.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C016-PZM006	0835	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: JWB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C088-PZM	Date: 10/8/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 13.05	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 28.55	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
0853		13.05	18.9	10.26	0.593	7.55	-138.8	23.3	
0858		13.05	16.7	9.93	0.620	5.42	-202.8	72.1	
0903		13.05	16.7	9.76	0.630	4.66	-209.2	265.1	
0908		13.05	16.8	9.71	0.630	4.20	-215.5	516.7	
0913		13.05	16.8	9.64	0.633	3.89	-221.1	826.9	
0918		13.05	16.7	9.68	0.634	3.68	-226.3	984.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C088-PMZ	0923	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COW-MW5	Date: 10/8/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 12.92	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 22.76	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
0938		12.92	19.2	9.86	1.08	6.88	-175.1	18.0	
0943		12.92	19.4	10.63	1.076	4.80	-248.4	15.5	
0948		12.92	19.8	10.83	1.066	4.05	-265.4	18.0	
0953		12.92	19.8	10.96	1.040	3.66	-274.6	20.0	
0958		12.92	19.8	11.05	1.042	3.43	-281.7	23.3	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COW-MW5	1003	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: JMB

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:	Project Number:
Well Number: COV - MWI	Date: 10/8/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 12.02	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 52.17	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
1016		12.04	18.4	10.19	0.935	6.83	-179.9	19.3	
1021		12.05	17.9	9.58	0.923	4.92	-205.7	24.5	
1026		12.05	17.9	9.51	0.927	4.12	-215.4	35.5	
1031		12.05	17.9	9.52	0.945	3.68	-224.0	63.2	
1036		12.06	17.8	9.53	0.945	3.41	-229.7	96.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COV - MWI	1041	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COR-MW1	Date: 10/8/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): - *	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): - *	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
1057			21.9	9.47	0.837	6.55	-108.0	13.8	
1102			21.5	9.58	0.824	4.49	-153.0	13.5	
1107			20.9	9.66	0.847	3.78	-162.2	14.1	
1112			20.8	9.62	0.864	3.37	-173.8	17.4	
1117			20.6	9.67	0.863	3.14	-179.2	22.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COR-MW1	1122	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: JMB

Comments: * did not use DTW meter because there was significant DNAPL contamination. Placed tubing above + pumped before taking measurements

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COS- MWS	Project Number:
Well Number:	Date: 10/8/14
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 13.57	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 23.71	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
1134		13.57	18.1	11.31	1.356	6.45	-149.0	35.0	
1139		13.57	18.0	11.26	1.486	4.73	-182.1	28.7	
1144		13.57	18.0	11.28	1.533	4.00	-187.2	23.8	
1149		13.57	18.0	11.30	1.550	3.62	-196.4	23.2	
1154		13.57	17.9	11.32	1.566	3.40	-208.7	33.3	
1159		13.57	17.9	11.34	1.570	3.23	-216.5	38.4	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COS-MWS	1204	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C0121-PZM	Date: 10/8/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 10.76	Flow Rate (mL/min) 350
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 17.64	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
1225		10.76	17.1	11.89	3.109	6.66	-247.3	27.8	
1230		10.76	17.0	11.67	3.211	5.23	-276.0	21.7	
1235		10.76	17.0	11.69	3.222	4.49	-287.3	18.0	
1240		10.76	17.0	11.71	3.233	4.05	-300.3	16.7	
1245		10.76	17.0	11.73	3.240	3.70	-304.2	16.9	
1250		10.76	16.9	11.75	3.253	3.52	-309.2	16.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0121-PZM	1255	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: JMB

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:	Project Number:
Well Number: C024 - PZM007	Date: 10/8/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 14.43	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 22.15	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
1312		14.20	19.7	11.03	3.236	6.44	-98.0	16.8	
1317		14.55	19.5	10.45	3.496	4.70	-130.2	17.9	
1322		14.90	19.2	10.62	3.886	4.12	-172.8	21.0	
1327		14.95	18.8	10.07	3.949	3.70	-213.5	25.4	
1332		15.00	18.6	10.30	4.198	3.44	-204.1	34.1	
1337		15.00	18.5	9.95	4.374	3.26	-195.2	25.8	
1342		15.01	18.4	9.83	4.379	3.12	-193.4	20.4	
1347		15.01	18.4	9.77	4.402	3.01	-194.5	18.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C024-PZM007	1352	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COBB-MWS	Date: 10/9/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 15.18	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 27.80	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
0806		15.18	17.0	9.50	2.912	8.71	-51.1	70.0	
0811		15.18	17.1	10.90	3.161	6.70	-141.3	34.2	
0816		15.18	17.1	11.03	3.511	5.73	-162.0	36.6	
0821		15.18	17.2	11.08	3.785	5.20	-172.1	61.9	
0826		15.18	17.2	11.11	3.988	4.81	-179.2	80.5	
0831		15.18	17.2	11.13	4.096	4.55	-184.8	109.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COBB-MWS	0836	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

~~Project Name~~:	C056-PZM001	Project Number:	
Well Number:	C056-PZM001	Date:	10/9/19
Well Diameter (in):		One Well Volume (gal):	
Depth to Product (ft):		QED Controller Settings:	
Depth to Water (ft):	15.02	Flow Rate (mL/min)	400
Product Thickness (ft):		Length of time Purged (min)	
Depth to Bottom (ft):	19.15	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
0850		15.03	18.6	11.51	3.729	6.99	-130.9	20.3	
0855		15.03	19.2	11.56	3.700	5.55	-169.4	16.8	
0900		15.03	19.4	11.58	3.438	4.79	-173.7	16.8	
0905		15.03	19.5	11.57	3.392	4.37	-170.2	18.8	
0910		15.03	19.5	11.57	3.370	4.10	-168.4	21.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
~~C056-PZM080~~ C056-PZM001	0915	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: CODD-MW5	Date: 10/9/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 13.34	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 28.74	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
0926		13.34	17.5	9.66 ~~8.80~~	9.981	6.17	-52.3	54.0	
0931		13.34	17.5	10.02	6.905	4.83	-166.3	105.9	
0936		13.34	17.7	10.26	5.340	4.30	-184.2	140.1	
0941		13.34	17.6	10.12	4.861	3.96	-173.0	162.4	
0946		13.34	17.8	10.13	4.762	3.74	-170.4	180.9	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CODD-MW5	0951	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:	Project Number:
Well Number: COAA-MW5	Date: 10/9/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 9.74	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 25.21	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
1029		9.74	18.2	11.42	3.962	6.54	-104.5	49.6	
1034		9.74	17.9	11.28	3.954	5.20	-135.2	38.4	
1039		9.74	17.9	11.28	3.955	4.53	-155.2	46.4	
1044		9.74	17.9	11.30	3.952	4.13	-164.1	72.1	
1049		9.74	18.0	11.31	3.960	3.86	-170.9	94.4	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COAA-MW5	1054	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COCC-MWS	Date: 10/9/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 15.04	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 28.44	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
1114		15.04	18.0	11.53	4.074	6.92	-97.9	74.0	
1119		15.04	17.7	11.44	4.031	5.33	-194.9	41.3	
1124		15.04	17.7	11.44	4.030	4.51	-172.0	56.8	
1129		15.04	17.7	11.44	4.029	4.15	-180.5	74.9	
1134		15.04	17.7	11.45	4.031	3.88	-185.8	93.2	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COCC-MWS	1139	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COFF-MWS	Date: 10/9/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 13.86	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 28.71	Condition of Pad/Cover: /

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C) ± 0.1	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
12 32		13.86	16.4	11.69	4.468	5.60	-233.0	86.4	
12 37		13.86	16.3	12.07	4.185	4.60	-281.4	37.1	
12 42		13.86	16.3	12.13	4.242	4.06	-284.5	24.1	
12 47		13.86	16.3	12.15	4.269	3.77	-279.3	23.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COFF-MWS	1252	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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C058-PZM001	Date: 10/9/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 13.40	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 19.25	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
1306		13.56	17.7	12.17	4.343	5.60	-132.2	19.1	
1311		13.65	17.9	12.09	3.925	4.66	-166.1	14.8	
1316		13.78	17.9	11.99	3.559	4.13	-172.9	14.7	
1321		13.85	17.9	11.93	3.441	3.87	-174.0	16.5	
1326		13.93	17.9	11.89	3.450	3.68	-175.3	15.9	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C058-PZM001	1331	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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: C055-PZM000	Date: 10/9/19 - 10/10/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 14.16	Flow Rate (mL/min) 400 → 250
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 17.10	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
1003		15.23	19.7	12.24	3.331	5.95	-170.6	91.7	
1008		16.30	20.9	12.09	2.968	4.77	-177.5	26.8	
1013			dewatered						
1018									

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C055-PZM000	10/10/19 0808	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: JMB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: COGG-MW5	Date: 10/10/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 12.04	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 27.85	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
0819		12.04	18.0	11.26	2.810	5.51	-75.2	25.7	
0824		12.04	18.0	11.86	3.323	6.78	-144.0	24.7	
0829		12.04	18.0	11.92	3.711	5.64	-176.8	26.5	
0834		12.04	18.0	11.93	3.860	5.35	-186.6	30.6	
0839		12.04	18.0	11.94	3.952	4.97	-191.9	35.3	
0844		12.04	18.0	11.95	4.008	4.67	-196.4	42.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COGG-MW5	0849	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: JMB

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:	Project Number:
Well Number: C035-PZM013	Date: 10/10/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 10.02	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 24.49	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
0903		10.16	19.0	12.00	2.233	7.13	-206.0	20.3	
0908		10.18	18.6	11.96	2.192	5.50	-265.2	70.0	
0913		10.18	18.5	11.93	2.187	4.87	-279.9	141.5	
0918		10.18	18.4	11.93	2.192	4.49	-286.8	198.4	
0923		10.18	18.3	11.93	2.193	4.21	-291.9	203.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C035-PZM013	0928	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: JMB

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:	Project Number:
Well Number: SW18-PZM008	Date: 10/10/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 12.35	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 20.38	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
0947		12.35	18.8	11.65	1.684	7.07	-95.4	26.6	
0952		12.35	19.0	11.71	1.455	5.48	-119.1	23.7	
0957		12.35	19.1	11.73	1.444	4.78	-130.1	32.8	
1002		12.35	19.2	11.74	1.452	4.39	-137.6	48.0	
1007		12.35	19.2	11.75	1.466	4.12	-142.8	67.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
SW18-PZM008	1012	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: JMB

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:	Project Number:
Well Number: CO 59- PZM002	Date: 10/10/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 15.77	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 19.02	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
1030		15.82	19.1	12.18	3.485	6.73	-86.8	15.5	
1035		15.82	19.1	12.01	3.258	5.26	-106.9	14.9	
1040		15.82	19.1	11.99	3.168	4.60	-114.4	14.9	
1045		15.82	19.1	12.04	3.280	4.38	-114.8	15.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO59-PZM002	1050	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: TMB

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:	Project Number:
Well Number: C057-PZM002	Date: 10/10/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 15.70	Flow Rate (mL/min) 400 → 250
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 17.95	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
1124		15.81	20.1	12.31	2.071	7.31	-71.9	24.9	
1129		16.26	18.1	11.93	1.868	~~6.75~~	-67.5	12.9	
1134		16.50	18.6	11.94	1.879	5.58	-77.0	14.0	
1139		16.70	18.6	11.96	1.936	5.10	-104.5	14.1	
1144		16.98	18.4	11.98	1.954	4.67	-128.4	13.7	
1149		17.30	18.5	11.99	1.985	4.38	-150.2	13.7	
1154		17.80	18.6	11.99	1.984	4.32	-157.4	14.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C057-PZM002	1159	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: JMB

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:	Project Number:
Well Number: C0120 - PZM009	Date: 10/10/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 13.98	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 22.03	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
1245		14.15	20.2	12.41	5.457	7.48	-151.9	16.1	
1250		14.20	18.7	12.23	5.565	5.59	-201.7	20.7	
1255		14.25	18.8	12.23	5.621	5.08	-210.3	24.2	
1300		14.30	18.6	12.23	5.727	4.62	-218.9	25.7	
1305		14.33	18.5	12.21	5.705	4.26	-228.3	30.4	
1310		14.33	18.4	12.13	5.614	4.03	-224.1	31.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0120 - PZM009	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: JMB

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)

23.15

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Project Number:
Well Number: CP02-PZM007	Date: 10/11/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 21.72	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 28.80	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
0803		21.72	17.0	5.44	2.430	8.81	134.1	19.3	
0808		21.72	17.1	6.43	2.152	6.57	74.7	38.1	
0813		21.72	17.1	7.02	2.043	5.64	58.9	73.7	
0818		21.72	17.2	7.51	1.964	5.01	50.3	110.0	
0823		21.74	17.2	7.79	1.932	4.61	43.0	82.0	
0828		21.74	17.2	7.98	1.905	4.27	28.8	123.4	
0833		21.74	17.2	8.09	1.873	4.05	8.3	118.1	
0838		21.74	17.2	8.17	1.859	3.86	-20.8	138.0	
0843		21.74	17.3	8.21	1.847	3.71	-49.9	152.7	
0848		21.74	17.3	8.25	1.832	3.56	-79.2	194.2	
0853		21.74	17.4	8.26	1.826	3.51	-89.0	191.6	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CP02-PZM007	0858	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: JMB

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:	Project Number:
Well Number: CP21-PZM004	Date: 10/11/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 14.67	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 22.32	Condition of Pad/Cover: /

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet) 14.67	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
0913		~~22.32~~	18.2	8.45	1.897	7.26	-185.8	136.6	
0918		14.68	18.8	9.41	2.043	4.99	-280.4	77.6	
0923		14.68	19.0	9.47	2.070	3.96	-340.9	46.9	
0928		14.68	19.1	9.52	2.032	3.20	-371.7	49.0	
0933		14.68	19.0	9.55	2.018	2.57	-386.2	59.7	
0938		14.68	19.1	9.56	2.055	2.18	-392.5	66.8	
0943		14.68	19.1	9.54	2.055	1.90	-396.2	76.2	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CP21-PZM004	0948	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: JMB

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:	Project Number:
Well Number: C023 - PZM008	Date: 10/11/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 14.73	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 22.16	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
1008		14.74	18.6	10.89	4.854	4.61	-260.8	31.2	
1013		14.74	18.9	11.04	4.725	3.39	-305.6	45.0	
1018		14.74	19.2	10.64	4.216	2.86	-282.6	41.7	
1023		14.74	19.2	10.69	4.272	2.60	-276.1	48.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C023-PZM008	1028	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: JMB

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:	Project Number:
Well Number: C060-PZM001	Date: 10/11/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 14.81	Flow Rate (mL/min) 400
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 18.99	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
1049		14.86	20.5	10.93	3.173	5.73	-156.3	100.0	
1054		14.86	19.2	11.00	2.968	4.19	-188.5	19.7	
1059		14.86	19.4	10.82	2.925	3.53	-187.2	23.4	
1104		14.86	19.5	11.09	2.977	3.22	-201.0	26.5	
1109		14.86	19.5	11.14	3.012	3.02	-204.3	29.9	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C060-PZM001	1114	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: JMB

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:	Project Number:
Well Number: COL-MW5	Date: 10/11/19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 5.80	Flow Rate (mL/min)
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 17.79	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
1220		5.80	18.1	11.92	2.158	7.05	-285.1	20.6	
1225		5.80	17.6	11.73	2.103	5.37	-318.3	16.9	
1230		5.80	17.6	11.68	2.036	4.66	-329.3	21.0	
1235		5.80	17.6	11.66	2.035	4.13	-338.4	18.8	
1240		5.80	17.5	11.65	2.034	3.91	-342.8	17.6	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COL-MW5	1245	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: JMB

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	Project Number: 190275
Well Number: C0030-P2M0160	Date: 12/20/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): -	QED Controller Settings:
Depth to Water (ft): 14.02	Flow Rate (mL/min) 400
Product Thickness (ft): -	Length of time Purged (min)
Depth to Bottom (ft): 73.1	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
1050	0.1	14.02	14.2	7.98	9.114	7.01	-265.4		
1055	.6	14.03	14.1	7.20	9.446	4.54	-207.9		
1100	1.1	14.04	14.1	7.17	9.464	4.09	-204.4		
1105	1.6		14.3	7.17	9.454	3.73	-203.3		
1110	2.1		14.1	7.18	9.437	3.46	-203.0		
1115	2.6		14.1	7.19	9.395	3.26	-203.2		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0030-P2M0160	1120	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: LMG

Comments: VOC naph
DRO GRO PCB

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA	Project Number: 190275m
Well Number: CO 030-PZM015	Date: 12/20/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 12.11	Flow Rate (mL/min) 400
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 27.6	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
0950	0	12.11	11.1	12.29	2.670	9.89	-100.6		
0955	0.5	12.11	14.7	12.20	2.885	6.85	-223.1		
1000	1	12.11	14.6	12.22	2.913	5.01	-238.7		
1005	1.5		14.7	12.22	2.926	4.35	-244.4		
1010	2		14.9	12.22	2.931	3.90	-249.0		
1015	2.5		15.1	12.22	2.928	3.60	-252.9		
1020	3		15.2	12.22	2.940	3.33	-255.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO 030-PZM015	1025	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: JMG

Comments:
VOC naph
TRO GRO PCB

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)

TABLE 1
INSTRUMENT CALIBRATION LOG

Project Name COA Im GW Date 12/20/19
Weather Sunny 20s

Calibrated by LMG Instrument YSI Pro
Serial Number_____

Parameters	Morning Calibration	Morning Temperature	End of Day Calibration Check*	End of Day Temperature
Specific 4.49 Conductance Standard #1	4.50	24° F		
Specific ~~Conductance~~ Standard #2				
pH (7)	7.01			
pH (4)	4.00			
pH(10)	10.01			
ORP 240 mV Zobel Soltuion	240.0			
Dissolved Oxygen 100% water saturated air mg/L				
Dissolved Oxygen Zero Dissolved Oxygen Solution mg/L				
Barometric Pressure mm Hg	31.00 in Hg	NA		NA
Turbidity Standard #1				
Turbidity Standard #2				
Turbidity Standard #3				

* For each Parameter, chose one standard as your check standard. If possible, choose the one that is closest to the ambient measurement value.

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C027-PZM012	Date: 12-19-19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): no L/O	QED Controller Settings:
Depth to Water (ft): 5.32	Flow Rate (mL/min) 200
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 17.64	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
1155	0.25	5.35	13.5	11.36	1.730	7.76	-232.7		
1200	0.5	5.32	13.7	11.34	1.765	4.71	-292.8		
1205	0.75	5.32	13.5	11.36	1.776	3.67	-317.5		
1210	1.0	5.32	13.7	11.36	1.783	3.15	-329.2		
1215	1.25	5.32	14.0	11.35	1.786	2.78	-339.6		
1220	1.5	5.32	14.0	11.34	1.792	2.55	-345.8		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C027-PZM012	1225	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: TCV

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 Sampling	Project Number: 190275M-1-2
Well Number: CO26-PZM010	Date: 12-19-19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): no 40	QED Controller Settings:
Depth to Water (ft): 12.83	Flow Rate (mL/min) 200
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 22.16	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
1101	0.25	12.87	17.8	8.89	12.132	6.60	-122.8		
1106	0.5	12.86	18.1	8.51	11.513	4.24	-80.2		
1111	0.75	12.86	17.9	8.74	3.291	3.96	-65.0		
1116	1.0	12.86	18.0	8.71	2.464	3.62	-47.5		
1121	1.25	12.86	18.2	8.69	2.347	3.33	-41.3		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO26-PZM010	1126	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: CO24-PZM048	Date: 12-19-19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): ND 40	QED Controller Settings:
Depth to Water (ft): 13.46	Flow Rate (mL/min) 250
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 60.94	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
1007	0.33	13.84	16.7	10.81	0.812	6.93	-149.2		
1012	0.67	13.81	16.9	10.94	0.810	4.78	-238.0		
1017	1.0	13.80	16.8	10.97	0.824	3.67	-258.1		
1022	1.33	13.79	16.9	10.97	0.841	3.16	-268.5		
1027	1.67	13.79	16.9	10.92	0.855	2.79	-277.4		
1032	2.0	13.79	16.8	10.90	0.876	2.65	-28.8		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO24-PZM048	1037	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA Im Sampling	Project Number: 190275M-1-2
Well Number: C069-PZM005	Date: 12-19-19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 11.70	Flow Rate (mL/min)
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 16.10	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

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C069-PZM005	0746	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C066-PZM005	Date: 12-18-19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 11.37	Flow Rate (mL/min)
Product Thickness (ft):	Length of time Purged (min) 10
Depth to Bottom (ft): 16.61	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

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C066-PZM005	1627	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: CO64-PZM005	Date: 12-18-19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 11.79	Flow Rate (mL/min)
Product Thickness (ft):	Length of time Purged (min) 10
Depth to Bottom (ft): 16.61	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

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO64-PZM005	1616	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA DM Sampling	Project Number: 190275M-1-2
Well Number: C072-PZM005	Date: 12-18-19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 11.74	Flow Rate (mL/min)
Product Thickness (ft):	Length of time Purged (min) 10
Depth to Bottom (ft): 16.19	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

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C072-PZM005	1600	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: TCV

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 Sampling	Project Number: 190275M-1-2
Well Number: C065-PZM005	Date: 12-18-19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 11.68	Flow Rate (mL/min)
Product Thickness (ft):	Length of time Purged (min) 10
Depth to Bottom (ft): 16.54	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

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C065-PZM005	1551	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C071-PZM006	Date: 12-18-19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 11.09	Flow Rate (mL/min)
Product Thickness (ft):	Length of time Purged (min) 10
Depth to Bottom (ft): 16.01	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

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C071-PZM006	1539	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: TCV

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 Sampling	Project Number: 190275M-1-2
Well Number: C070 - PZM005	Date: 12-18-19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 12.05	Flow Rate (mL/min)
Product Thickness (ft):	Length of time Purged (min) 10
Depth to Bottom (ft): 15.52	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

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C070 - PZM005	1512	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C067-PZM006	Date: 12-18-19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 11.07	Flow Rate (mL/min)
Product Thickness (ft):	Length of time Purged (min) 10
Depth to Bottom (ft): 16.49	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

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C067-PZM006	1421	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: TCV

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 Sampling	Project Number: 190275M-1-2
Well Number: C063-PZM007	Date: 12-18-19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 10.00	Flow Rate (mL/min)
Product Thickness (ft):	Length of time Purged (min) 10
Depth to Bottom (ft): 16.51	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

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C063-PZM007	1235	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 140275M-1-2
Well Number: C064-PZM006	Date: 12-18-19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 15.94	Flow Rate (mL/min)
Product Thickness (ft):	Length of time Purged (min) 10
Depth to Bottom (ft): 16.42	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

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C064-PZM006	1213	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C061-PZM007	Date: 12-18-19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 9.87	Flow Rate (mL/min)
Product Thickness (ft):	Length of time Purged (min) 10
Depth to Bottom (ft): 16.41	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

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C061-PZM007	1114	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: TCV

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 Sampling	Project Number: 190275M-1-2
Well Number: C062-PZM007	Date: 12-18-19
Well Diameter (in):	One Well Volume (gal):
Depth to Product (ft): no L/D	QED Controller Settings:
Depth to Water (ft): 0.34	Flow Rate (mL/min)
Product Thickness (ft): —	Length of time Purged (min) 10
Depth to Bottom (ft): 11.80	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

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C062-PZM007	1051	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: TCV

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 Sampling	Project Number: 190275-M-1-2
Well Number: C048-PZM044	Date: 12-17-19
Well Diameter (in): 6	One Well Volume (gal):
Depth to Product (ft): no 4/0	QED Controller Settings:
Depth to Water (ft): 6.19	Flow Rate (mL/min)
Product Thickness (ft): —	Length of time Purged (min) 10
Depth to Bottom (ft): 46.3	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
1357	1.0		15.3	10.02	1.523	3.25	-352.0		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C048-PZM044	1402	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C047-PZM046	Date: 12-17-19
Well Diameter (in): 6	One Well Volume (gal): 55.5
Depth to Product (ft): no 4/0	QED Controller Settings:
Depth to Water (ft): 6.22	Flow Rate (mL/min)
Product Thickness (ft): -	Length of time Purged (min) 10
Depth to Bottom (ft): 44.0	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
1315	1.1		14.6	12.19	5.032	3.22	-417.6		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C047-PZM046	1320	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA In Sampling	Project Number: 190275M-1-2
Well Number: C046-PZM047	Date: 12-17-19
Well Diameter (in): 6	One Well Volume (gal):
Depth to Product (ft): no 4/0	QED Controller Settings:
Depth to Water (ft): 5.50	Flow Rate (mL/min)
Product Thickness (ft): —	Length of time Purged (min) 10
Depth to Bottom (ft): 46.30	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
1230	1.0		15.1	7.82	2.542	3.13	-278.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C046-PZM047	1235	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275m-1-2
Well Number: C045-PZM047	Date: 12-17-19
Well Diameter (in): 6	One Well Volume (gal): 61.3
Depth to Product (ft): no NAPL	QED Controller Settings:
Depth to Water (ft): 5.12	Flow Rate (mL/min)
Product Thickness (ft): —	Length of time Purged (min) 10
Depth to Bottom (ft): 46.80	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
1141	1.5		15.3	6.82	2.559	3.57	-164.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
~~C046-PZM047~~ C045-PZM047	1146	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C044-PZM048	Date: 12-17-19
Well Diameter (in): 6	One Well Volume (gal): 64.3
Depth to Product (ft): no L/O	QED Controller Settings:
Depth to Water (ft): 3.55	Flow Rate (mL/min)
Product Thickness (ft): —	Length of time Purged (min) 10
Depth to Bottom (ft): 47.30	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
1057	0.9		13.5	9.52	2.331	4.22	-235.2		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C044-PZM048	1102 ~~1057~~	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA Im Sampling	Project Number: 190275M-1-2
Well Number: C043-PZM048	Date: 12-17-19
Well Diameter (in): 6	One Well Volume (gal): 563
Depth to Product (ft): no 40	QED Controller Settings:
Depth to Water (ft): 2.89	Flow Rate (mL/min)
Product Thickness (ft): –	Length of time Purged (min) 10
Depth to Bottom (ft): 41.19	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
1010	0.9		15.7	9.26	1.361	4.43	-192.1		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C043-PZM048	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	
		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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C027-PZM046	Date: 12-19-19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): no 40	QED Controller Settings:
Depth to Water (ft): 9.18	Flow Rate (mL/min) 250
Product Thickness (ft): -	Length of time Purged (min)
Depth to Bottom (ft): 51.50	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
1244	0.33	9.27	13.7	11.42	2.073	5.87	-243.1		
1249	0.67	9.23	13.8	11.41	2.085	3.99	-283.3		
1254	1.0	9.21	14.0	11.41	2.093	3.20	-302.4		
1259	1.33	9.21	14.0	11.41	2.097	2.70	-319.8		
1304	1.67	9.21	14.0	11.41	2.097	2.44	-332.5		
1309	2.0	9.21	13.9	11.41	2.100	2.27	-335.1		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C027-PZM046	1314	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: TCV

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 Sampling	Project Number: 190275M-1-2
Well Number: C029-PZM051	Date: 12-19-19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): no 40	QED Controller Settings:
Depth to Water (ft): 14.55	Flow Rate (mL/min) 250
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 64.82	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
1445	0.33	14.60	14.1	12.16	7.431	6.48	-223.5		
1450	0.67	14.56	14.8	12.28	7.261	4.28	-275.6		
1455	1.0	14.55	14.6	12.34	7.267	3.34	-292.4		
1500	1.33	14.55	14.7	12.34	7.241	2.81	-302.2		
1505	1.67	14.55	14.7	12.16	6.914	2.53	-307.6		
1510	2.0	14.56	14.6	10.86	9.178	2.31	-282.6		
1515	2.33	14.56	14.6	9.43	11.594	2.19	-223.5		
1520	2.67	14.56	14.6	8.97	12.150	2.10	-229.5		
1525	3.0	14.57	14.6	8.69	12.318	2.03	-253.0		
1530	3.33	14.57	14.5	8.59	12.427	1.97	-259.0		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C029-PZM051	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C029-PZM010	Date: 12-19-19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): no 40	QED Controller Settings:
Depth to Water (ft): 15.77	Flow Rate (mL/min) 200
Product Thickness (ft): -	Length of time Purged (min)
Depth to Bottom (ft): 24.82	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
1355	0.25	15.80	14.0	12.24	3.713	6.72	-213.3		
1400	0.5	15.78	14.0	12.27	3.747	4.43	-227.9		
1405	0.75	15.77	14.2	12.28	3.754	3.45	-230.7		
1410	1.0	15.77	14.2	12.29	3.755	2.97	-234.0		
1415	1.25	15.77	14.2	12.29	3.753	2.70	-235.7		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C029-PZM010	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C040-PZM008	Date: 12-16-19
Well Diameter (in): 2	One Well Volume (gal): 1,82
Depth to Product (ft): no 4/0	QED Controller Settings:
Depth to Water (ft): 6.41	Flow Rate (mL/min) 200
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 17.57	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
1358	0.25	6.68	13.3	7.67	5.782	6.35	-24.4		
1403	0.25	6.68	13.3	7.68	5.780	4.85	-39.0		
1408	0.25	6.69	13.2	7.66	5.793	3.92	-48.5		
1413	0.25	6.69	13.3	7.66	5.813	3.52	-51.9		
1418	0.25	6.69	13.3	7.66	5.855	3.20	-56.2		
1423	0.25	6.70	13.5	7.67	5.903	2.98	-61.2		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C040-PZM008	1428	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C042-PZM004	Date: 12-16-19
Well Diameter (in): 2	One Well Volume (gal): 1.49
Depth to Product (ft): no N/D	QED Controller Settings:
Depth to Water (ft): 7.21	Flow Rate (mL/min) 250
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 16.38	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
1313	0.33	7.40	15.0	9.04	3.787	6.40	-100.2		
1318	0.33	7.90	14.6	8.41	3.792	4.17	-98.8		
1323	0.33	8.21	14.3	8.16	3.765	3.54	-100.0		
1328	0.33	8.61	14.2	8.02	3.770	3.21	-98.6		
1333	0.33	8.98	14.2	7.93	3.792	3.04	-95.8		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C042-PZM004	1338	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C039-PZM007	Date: 12-16-19
Well Diameter (in): 2	One Well Volume (gal): 1.93
Depth to Product (ft): no 4/0	QED Controller Settings:
Depth to Water (ft): 6.12	Flow Rate (mL/min) 200
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 17.93	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
1228	0.25	6.62	12.4	11.09	7.046	5.93	-269.1		
1233	0.25	6.94	12.6	11.05	7.052	4.02	-302.6		
1238	0.25	6.94	12.5	10.98	7.001	3.35	-310.0		
1243	0.25	7.02	12.6	10.96	6.993	2.96	-315.9		
1248	0.25	7.05	12.5	10.95	6.973	2.73	-319.1		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C039-PZM007	1253	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: TCV

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 Sampling	Project Number: 190275M-1-2
Well Number: C039-PZM042	Date: 12-16-19
Well Diameter (in): 2	One Well Volume (gal): 6.09
Depth to Product (ft): no 40	QED Controller Settings:
Depth to Water (ft): 8.62	Flow Rate (mL/min) 200
Product Thickness (ft): -	Length of time Purged (min)
Depth to Bottom (ft): 45.96	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
1147	0.25	8.73	12.9	11.79	6.714	7.60	-249.3		
1152	0.25	8.72	13.5	11.77	6.652	5.03	-351.2		
1157	0.25	8.72	13.7	11.77	6.532	4.04	-371.0		
1202	0.25	8.73	13.9	11.77	6.485	3.43	-382.0		
1207	0.25	8.73	14.0	11.78	6.420	3.11	-385.7		
1212	0.25	8.73	13.9	11.78	6.322	2.82	-387.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C039-PZM042	1217	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: TCV

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

AKM Group Inc.
Earth Resources Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C037-PZM038	Date: 12-16-19
Well Diameter (in): 2	One Well Volume (gal): 5.31
Depth to Product (ft): no H/O	QED Controller Settings:
Depth to Water (ft): 12.77	Flow Rate (mL/min) 200
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 45.35	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
1021	0.25	12.90	13.1	11.83	4.768	7.75	-231.5		
1026	0.25	12.90	13.6	11.80	5.020	5.66	-272.9		
1031	0.25	12.90	13.6	11.80	5.018	4.75	-294.9		
1036	0.25	12.91	13.7	11.81	4.975	4.07	-321.7		
1041	0.25	12.91	14.0	11.80	4.937	3.64	-341.1		
1046	0.25	12.92	13.9	11.81	4.870	3.32	-356.4		
1051	0.25	12.92	14.1	11.81	4.824	3.05	-365.0		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C037-PZM038	1056	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C038-PZM043	Date: 12-13-19
Well Diameter (in): 2	One Well Volume (gal): 6.86
Depth to Product (ft): no 40	QED Controller Settings:
Depth to Water (ft): 7.57	Flow Rate (mL/min) 250
Product Thickness (ft): -	Length of time Purged (min)
Depth to Bottom (ft): 49.63	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
1528	0.33	8.05	14.3	8.38	3.657	5.75	-200.3		
1533	0.67	8.74	14.8	7.69	3.505	3.83	-183.6		
1538	1.00	8.98	14.7	7.48	3.477	2.90	-177.5		
1543	1.33	9.15	14.8	7.37	3.628	2.39	-170.8		
1548	1.67	9.29	14.9	7.30	3.607	2.21	-168.8		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C038-PZM043	1553	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C038-PZM006	Date: 12-13-19
Well Diameter (in): 2	One Well Volume (gal): 1.47
Depth to Product (ft): no t/o	QED Controller Settings:
Depth to Water (ft): 6.71	Flow Rate (mL/min) 200
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 15.73	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
1450	0.25	6.85	14.9	10.39	5.219	5.20	-240.3		
1455	0.50	6.85	14.6	10.38	5.222	3.63	-274.8		
1500	0.75	6.85	14.5	10.37	5.208	2.82	-300.6		
1505	1.00	6.86	14.4	10.37	5.190	2.42	-309.9		
1510	1.25	6.86	14.4	10.37	5.190	2.22	-314.0		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C038-PZM006	1515	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C036-PZM043	Date: 12-13-19
Well Diameter (in): 2	One Well Volume (gal): ~~250~~ 7.21
Depth to Product (ft): no 40	QED Controller Settings:
Depth to Water (ft): 7.85	Flow Rate (mL/min) 250
Product Thickness (ft): –	Length of time Purged (min)
Depth to Bottom (ft): 52.07	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
1353	0.33	8.22	14.6	11.41	4.012	5.24	-90.2		
1354	0.67	8.22	14.6	11.38	4.008	3.53	-221.9		
1403	1.00	8.22	14.7	11.38	4.007	2.85	-239.8		
1408	1.33	8.22	14.7	11.38	4.003	2.48	-257.8		
1413	1.67	8.22	14.8	11.38	4.000	2.25	-271.6		
1418	2.00	8.22	14.9	11.38	4.011	2.10	-283.9		
1423	2.33	8.23	14.9	11.39	4.007	1.99	-292.1		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C036-PZM043	1428	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: TCV

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM Sampling	Project Number: 190275M-1-2
Well Number: C036-PZM004	Date: 12-13-19
Well Diameter (in): 2	One Well Volume (gal): 1.14
Depth to Product (ft): no H/O	QED Controller Settings:
Depth to Water (ft): 7.23	Flow Rate (mL/min) 200
Product Thickness (ft): -	Length of time Purged (min)
Depth to Bottom (ft): 14.20	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
1311	0.25	7.42	15.5	11.71	3.266	5.94	-152.6		
1316	0.50	7.36	14.2	11.71	3.220	3.92	-198.3		
1321	0.75	7.39	13.9	11.73	3.307	3.26	-204.0		
1326	1.00	7.66	14.8	11.71	3.279	2.85	-205.4		
1331	1.25	7.99	14.8	11.69	3.209	2.70	-199.3		
1336	1.50	8.27	14.7	11.68	3.159	2.71	-189.7		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C036-PZM004	1341	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: TCV

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 Sampling	Project Number: 190275M-1-2
Well Number: C041-PZM036	Date: 12-13-19
Well Diameter (in): 2	One Well Volume (gal): 5.91
Depth to Product (ft): no 40	QED Controller Settings:
Depth to Water (ft): 13.99	Flow Rate (mL/min) 200
Product Thickness (ft): -	Length of time Purged (min)
Depth to Bottom (ft): 50.30	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
1210	0.25	14.05	15.0	11.19	3.227	4.89	-214.0		
1215	0.50	14.02	14.8	11.24	3.325	3.38	-264.8		
1220	0.75	14.01	14.8	11.24	3.389	2.67	-311.4		
1225	1.00	14.01	15.1	11.23	3.429	2.35	-332.0		
1230	1.25	14.01	15.1	11.23	3.457	2.14	-343.6		
1235	1.50	14.01	15.0	11.23	3.460	1.99	-349.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C041-PZM036	1240	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: TCV

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 Sampling	Project Number: 190275 M-1-2
Well Number: C041-PZM001	Date: 12-13-19
Well Diameter (in): 2	One Well Volume (gal): 0.57
Depth to Product (ft): no 4/0	QED Controller Settings:
Depth to Water (ft): 12.49	Flow Rate (mL/min) 200
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 16.00	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
1112	0.25	12.59	13.8	7.46	2.305	6.70	110.7		
1117	0.50 ~~0.25~~	12.62	13.5	7.56	2.248	4.52	53.1		
1122	0.75 ~~0.50~~ ~~0.25~~	12.64	13.5	7.58	2.211	3.72	-35.1		
1127	1.00 ~~0.75~~ ~~0.25~~	12.66	13.6	7.61	2.192	3.38	-70.9		
1132	1.25	12.67	13.6	7.64	2.169	3.13	-97.9		
1137	1.50	12.69	13.7	7.66	2.143	2.92	-119.3		
1142	1.75	12.70	13.6	7.72	2.115	2.79	-136.2		
1147	2.00	12.71	13.6	7.75	2.091	2.66	-151.9		
1152	2.25	12.72	13.6	7.77	2.069	2.58	-164.1		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C041-PZM001	1157	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: TCV

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	Project Number: 190275M
Well Number: C026-PZM032	Date: 12/18/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): —	QED Controller Settings:
Depth to Water (ft): 15.89	Flow Rate (mL/min) 450
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 47.58	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
1015	0.1	15.89	13.0	10.54	1.755	8.48	-64.4		
1020	0.6	15.99	12.8	10.14	2.676	6.78	-36.3		
1025	1.1	16.09	12.3	9.60	3.904	5.96	-15.3		
1030	1.6		12.2	8.72	7.046	4.69	12.2		
1035	2.1		10.5	8.57	7.800	4.34	17.2		
1040	2.6		9.0	8.47	7.856	4.10	16.10		
1045	3.1		8.5	8.38	7.942	3.94	15.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C026-PZM032	1050	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: LMG

Comments: VOCs naph
DRO GRO

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA	Project Number: 190275M
Well Number: C026-P2M007	Date: 12/18/19
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): –	QED Controller Settings:
Depth to Water (ft): 12.30	Flow Rate (mL/min) 250
Product Thickness (ft): –	Length of time Purged (min)
Depth to Bottom (ft): 19.43	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
0905	0	12.3	12.9	8.93	0.737	8.[illegible]	-28.0		
0910	0.3	13.3	12.6	8.95	0.606	6.13	-2.3		
0915	0.6	14.3	13.2	9.18	0.655	5.71	2.1		
0920	0.9		14.0	9.65	0.853	5.43	-25.6		
0925	1.2		14.1	9.75	0.900	5.13	-35.5		
0930	1.5		15.1	9.85	0.915	4.90	-44.2		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C026-P2M007	0935	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: JMG

Comments: VOCs, map
G20 D20

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:	190275M-1-2
Well Number:	C058-PZM001	Date:	12-13-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	13.94	Flow Rate (mL/min)	300
Product Thickness (ft):	NA	Length of time Purged (min)	25
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
1357	0.0	14.07	8.79	11.75	3.95	0.0	+29		
1402	0.4	14.15	8.79	11.48	4.07		-169		
1407	0.8	14.18	8.85	11.39	3.86		-163		
1412	1.2	14.20	8.88	11.28	3.75		-163		
1417	1.6	14.22	8.95	11.18	3.74		-162		
1422	2.0	14.23	8.96	11.16	3.69		-164		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C058-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: LVP

Comments: see COC

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW	Project Number:	190275M-1-2
Well Number:	C060-PZP001	Date:	12-13-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	15.38	Flow Rate (mL/min)	300
Product Thickness (ft):	NA	Length of time Purged (min)	20
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
1305	0.0	15.43	9.05	11.53	3.07	0.0	-53		
1310	0.4	15.43	9.29	11.58	2.98		-116		
1315	0.8	15.43	9.35	11.56	2.98		-137		
1320	1.2	15.43	9.34	11.55	2.98		-145		
1325	1.6	15.43	9.28	11.53	2.98		-149		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C060-PZP001	1330	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: See COC

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	CoA GW	Project Number:	190275m-1-2
Well Number:	C057-PZP002	Date:	12-13-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	16.14	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	17.90	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
1219	0.0	16.53	11.58	12.32	1.72	14.33	-32	|	
1224	0.3	17.10	11.02	12.37	1.73	0.0	-76	|	
1229	0.6	17.57	10.39	12.38	1.73	|	-84	|	
1234	0.9	17.60	9.77	12.38	1.74	|	-89	|	
1239	1.20	17.61	9.83	12.39	1.74	|	-97	|	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C057-PZP002	1245	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: See COC

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA 60	Project Number:	190275m-1-2
Well Number:	C059-PZP002	Date:	12-13-19
Well Diameter (in):	2	One Well Volume (gal):	
Depth to Product (ft):	NA	QED Controller Settings:	
Depth to Water (ft):	16.24	Flow Rate (mL/min)	341
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
1149	0.0	16.24	14.08	11.13	2.51	0.0	-30		
1154	0.45	16.24	13.87	10.98	2.53		-75		
1159	0.90	16.24	13.50	10.97	2.53		-76		
1204	1.35	16.24	13.07	11.01	2.55		-73		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C059-PZP002	1210	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: LAP

Comments: See COC

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 610	Project Number:	190275m-1-2
Well Number:	C056-PZP001	Date:	12-13-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	15.44	Flow Rate (mL/min)	300
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	19.15	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
920	0.0	15.49	9.81	11.60	3.83	0.0	-164		
925	0.4	15.49	9.77	11.51	3.91		-182		
930	0.8	15.49	9.77	11.45	3.91		-186		
935	1.2	15.49	9.74	11.43	3.90		-186		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C056-PZP001	940	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: See COC

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW	Project Number:	190275M-1-2
Well Number:	C055-PZM000	Date:	12-13-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.61	Flow Rate (mL/min)	151
Product Thickness (ft):	NA	Length of time Purged (min)	5
Depth to Bottom (ft):	17.10	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
1032	0.0	16.80	10.78	12.43	2.66	2.52	-96		
1037	0.2	16.88	10.89	11.98	2.40	0.0	-100		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C055-PZM000	1038	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: See COC

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW	Project Number:	90275M-1-2
Well Number:	C023-PZM008	Date:	12-13-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	15.08	Flow Rate (mL/min)	300
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	22.15	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
839	0.0	15.08	12.10	11.44	7.52	0.0	-246		
844	0.4	15.08	11.85	11.53	5.33		-255		
849	0.8	15.08	11.49	11.55	4.49		-257		
854	1.2	15.08	11.10	11.56	4.24		-258		
859	1.6	15.08	10.86	11.57	4.22		-259		
904	2.0	15.08	10.62	11.59	4.24		-261		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C023-PZM008	910	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: See COC

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW	Project Number:	190275M-L-2
Well Number:	C024-PZM007	Date:	12-13-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	~~14.00~~ 14.60	Flow Rate (mL/min)	303
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	22.14	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
757	0.0	14.95	19.25	6.74	2.21	0.0	185		
802	0.5	14.98	18.55	8.79	2.40		-53		
807	0.95	15.00	17.45	9.19	2.45		-132		
812	1.40	15.00	16.44	9.28	2.50		-150		
817	1.70	15.00	15.38	9.29	2.54		-158		
822	2.00	15.00	14.65	9.34	2.58		-163		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C024-PZM007	825	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: see COC

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW	Project Number:	190275M-1-2
Well Number:	COØ2-PZM006	Date:	12-12-19
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)	≈ 300
Product Thickness (ft):	NA	Length of time Purged (min)	35
Depth to Bottom (ft):	18.75	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
1446	0.0	14.65	15.44	7.95	0.657	0.0	-97		
1451	0.4	14.65	15.31	8.12	0.160		-129		
1456	0.8	14.65	14.95	8.16	0.480		-124		
1501	1.2	14.65	13.03	8.02	0.962		-146		
1506	1.6	14.65	13.01	7.95	0.987		-199		
1511	2.0	14.65	12.86	7.98	0.985		-214		
1516	2.4	14.65	12.58	8.00	0.982		-205		
1521	2.8	14.65	12.20	7.97	0.972		-201		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COØ2-PZM006	1530	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: See COC

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:	190275M-1-2
Well Number:	C018-PZM006	Date:	12-12-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	11.74	Flow Rate (mL/min)	265
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	20.02	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
1357	0.0	11.95	15.14	7.23	1.78	0.0	-181		
1402	0.35	11.95	15.64	6.91	1.79		-135		
1407	0.70	11.95	15.98	6.86	1.78		-128		
1412	1.05	11.95	16.31	6.83	1.75		-121		
1417	1.40	11.95	16.53	6.81	1.73		-117		
1422	1.75	11.95	16.65	6.81	1.70		-112		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C018-PZM006	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: LLP

Comments: see COC & yellow during sampling (color)

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

AKM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW	Project Number:	190275M-1-2
Well Number:	C093-PZM	Date:	12-12-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	10.32	Flow Rate (mL/min)	300
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	19.50	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
1311	0.0	10.44	12.34	9.45	0.461	0.0	-182		
1316	0.4	10.56	12.70	9.84	0.521		-185		
1321	0.8	10.60	13.02	10.37	0.544		-168		
1326	1.2	10.62	13.32	10.53	0.585		-145		
1331	1.6	10.65	13.65	10.60	0.610		-129		
1336	2.0	10.65	13.90	10.60	0.567		-120		
1341	2.4	10.66	14.13	10.60	0.543		-116		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C093-PZM	1345	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: see coc

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:	190275m-1
Well Number:	CO 102-PZMXXX	Date:	12-12-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	13.41	Flow Rate (mL/min)	300
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	19.34	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	13.41	9.71	11.94	2.21	0.0	-251		
1116	0.4	13.41	9.55	9.55	2.25		-265		
1121	0.8	13.41	9.54	9.54	2.25		-269		
1126	1.2	13.41	9.55	9.55	2.27		-270		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO102-PZMXXX	1140	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: see COC

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:	190275m-1
Well Number:	CO101-PZMXXX	Date:	12-12-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	12.98	Flow Rate (mL/min)	150
Product Thickness (ft):	NA	Length of time Purged (min)	5
Depth to Bottom (ft):	14.64	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
909	0.0	14.05	18.80	10.95	2.17	0.0	-38		
914	0.24	14.60	17.94	11.66	2.07		-231		
~~919~~	Purged	Dry							
*	Returned @ 1210 → purged 5 min then sampled								

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO101-PZMXXX	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: See COC

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:	190275M-1
Well Number:	C0104-PZMXXX	Date:	12-12-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	13.94	Flow Rate (mL/min)	250
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	19.30	Condition of Pad/Cover:	600d / 600d

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
935	0.0	15.03	15.47	9.83	7.40	0.0	-25		
940	0.35	15.85	14.92	9.73	8.03		3		
945	0.75	16.22	14.53	9.68	7.62		16		
950	1.05	16.85	14.03	9.64	6.68		28		
955	1.35	17.08	13.64	9.61	6.61		34		
1000	1.65	17.33	13.17	9.57	6.71		40		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0104-PZMXXX	1005	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: See COC

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:	190275M-1
Well Number:	C0103-PZMXXY	Date:	12-12-19
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.03	Flow Rate (mL/min)	300
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	20.56	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
1019	0.0	14.20	12.19	11.70	3.75	0.0	-225		
1024	0.4	14.23	11.97	10.66	3.29		-229		
1029	0.8	14.25	11.67	10.25	2.62		-229		
1034	1.2	14.26	11.37	10.05	1.79		-213		
1039	1.6	14.26	11.02	9.99	1.60		-210		
1044	2.0	14.26	10.89	9.92	1.57		-204		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0103-PZM	1045	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: See COC

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
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

April 08, 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.: 30285945

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on March 25, 2019. 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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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30285945

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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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: COA IM GW Sampling
Pace Project No.: 30285945

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30285945001	**CO36-PZM008**	Water	03/25/19 09:35	03/25/19 22:00
30285945002	**CO36-PZM043**	Water	03/25/19 10:15	03/25/19 22:00
30285945003	**CO38-PZM006**	Water	03/25/19 10:55	03/25/19 22:00
30285945004	**CO38-PZM043**	Water	03/25/19 11:30	03/25/19 22:00
30285945005	**CO37-PZM038**	Water	03/25/19 12:15	03/25/19 22:00
30285945006	**CO39-PZM007**	Water	03/25/19 13:20	03/25/19 22:00
30285945007	**CO39-PZM042**	Water	03/25/19 14:00	03/25/19 22:00
30285945008	**CO41-PZM036**	Water	03/25/19 14:50	03/25/19 22:00
30285945009	**CO41-PZM001**	Water	03/25/19 15:30	03/25/19 22:00
30285945010	**Trip Blank**	Water	03/25/19 00:01	03/25/19 22:00

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30285945

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30285945001	**CO36-PZM008**	EPA 8260B	LEL	53
30285945002	**CO36-PZM043**	EPA 8260B	LEL	53
30285945003	**CO38-PZM006**	EPA 8260B	LEL	53
30285945004	**CO38-PZM043**	EPA 8260B	LEL	53
30285945005	**CO37-PZM038**	EPA 8260B	LEL	53
30285945006	**CO39-PZM007**	EPA 8260B	LEL	53
30285945007	**CO39-PZM042**	EPA 8260B	LEL	53
30285945008	**CO41-PZM036**	EPA 8260B	LEL	53
30285945009	**CO41-PZM001**	EPA 8260B	LEL	53
30285945010	**Trip Blank**	EPA 8260B	LEL	53

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PROJECT NARRATIVE

Project: COA IM GW Sampling
Pace Project No.: 30285945

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: April 08, 2019

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.

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.

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.: 30285945

Sample: CO36-PZM008 **Lab ID: 30285945001** Collected: 03/25/19 09:35 Received: 03/25/19 22:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**25.2J**	ug/L	50.0	14.2	5		04/04/19 22:16	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/04/19 22:16	107-13-1	
Benzene	**5380**	ug/L	200	48.0	200		04/04/19 19:09	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 22:16	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 22:16	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 22:16	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/04/19 22:16	74-83-9	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/04/19 22:16	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 22:16	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 22:16	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/04/19 22:16	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/04/19 22:16	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/04/19 22:16	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/04/19 22:16	74-87-3	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/04/19 22:16	96-12-8	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 22:16	124-48-1	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 22:16	106-93-4	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/04/19 22:16	74-95-3	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/04/19 22:16	95-50-1	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 22:16	106-46-7	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/04/19 22:16	110-57-6	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/04/19 22:16	75-34-3	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 22:16	107-06-2	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 22:16	75-35-4	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/04/19 22:16	156-59-2	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		04/04/19 22:16	156-60-5	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 22:16	78-87-5	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 22:16	10061-01-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/04/19 22:16	10061-02-6	
Ethylbenzene	**15.3**	ug/L	5.0	1.6	5		04/04/19 22:16	100-41-4	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/04/19 22:16	591-78-6	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/04/19 22:16	74-88-4	
Methylene Chloride	**4.4J**	ug/L	5.0	3.8	5		04/04/19 22:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/04/19 22:16	108-10-1	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 22:16	1634-04-4	
Naphthalene	**248**	ug/L	10.0	4.1	5		04/04/19 22:16	91-20-3	
Styrene	**5.3**	ug/L	5.0	0.85	5		04/04/19 22:16	100-42-5	
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/04/19 22:16	630-20-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 22:16	79-34-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 22:16	127-18-4	
Toluene	**1160**	ug/L	5.0	1.5	5		04/04/19 22:16	108-88-3	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 22:16	71-55-6	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 22:16	79-00-5	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/04/19 22:16	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 22:16	75-69-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/04/19 22:16	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.: 30285945

Sample: CO36-PZM008 **Lab ID: 30285945001** Collected: 03/25/19 09:35 Received: 03/25/19 22:00 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		04/04/19 22:16	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 22:16	75-01-4	
Xylene (Total)	**536**	ug/L	15.0	3.9	5		04/04/19 22:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		5		04/04/19 22:16	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		5		04/04/19 22:16	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		04/04/19 22:16	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		5		04/04/19 22:16	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: CO36-PZM043 **Lab ID: 30285945002** Collected: 03/25/19 10:15 Received: 03/25/19 22:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**14.9J**	ug/L	50.0	14.2	5		04/04/19 22:41	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/04/19 22:41	107-13-1	
Benzene	**22200**	ug/L	200	48.0	200		04/04/19 19:59	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 22:41	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 22:41	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 22:41	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/04/19 22:41	74-83-9	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/04/19 22:41	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 22:41	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 22:41	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/04/19 22:41	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/04/19 22:41	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/04/19 22:41	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/04/19 22:41	74-87-3	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/04/19 22:41	96-12-8	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 22:41	124-48-1	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 22:41	106-93-4	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/04/19 22:41	74-95-3	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/04/19 22:41	95-50-1	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 22:41	106-46-7	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/04/19 22:41	110-57-6	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/04/19 22:41	75-34-3	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 22:41	107-06-2	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 22:41	75-35-4	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/04/19 22:41	156-59-2	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		04/04/19 22:41	156-60-5	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 22:41	78-87-5	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 22:41	10061-01-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/04/19 22:41	10061-02-6	
Ethylbenzene	**76.1**	ug/L	5.0	1.6	5		04/04/19 22:41	100-41-4	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/04/19 22:41	591-78-6	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/04/19 22:41	74-88-4	
Methylene Chloride	**4.2J**	ug/L	5.0	3.8	5		04/04/19 22:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/04/19 22:41	108-10-1	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 22:41	1634-04-4	
Naphthalene	**745**	ug/L	10.0	4.1	5		04/04/19 22:41	91-20-3	
Styrene	**19.6**	ug/L	5.0	0.85	5		04/04/19 22:41	100-42-5	
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/04/19 22:41	630-20-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 22:41	79-34-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 22:41	127-18-4	
Toluene	**4210**	ug/L	200	60.0	200		04/04/19 19:59	108-88-3	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 22:41	71-55-6	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 22:41	79-00-5	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/04/19 22:41	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 22:41	75-69-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/04/19 22:41	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: CO36-PZM043 **Lab ID: 30285945002** Collected: 03/25/19 10:15 Received: 03/25/19 22:00 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		04/04/19 22:41	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 22:41	75-01-4	
Xylene (Total)	**1150**	ug/L	15.0	3.9	5		04/04/19 22:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		5		04/04/19 22:41	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		5		04/04/19 22:41	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		04/04/19 22:41	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		5		04/04/19 22:41	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: CO38-PZM006 **Lab ID: 30285945003** Collected: 03/25/19 10:55 Received: 03/25/19 22:00 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		04/04/19 21:26	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/04/19 21:26	107-13-1	
Benzene	**4660**	ug/L	100	24.0	100		04/04/19 18:19	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 21:26	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 21:26	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 21:26	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/04/19 21:26	74-83-9	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/04/19 21:26	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 21:26	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 21:26	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/04/19 21:26	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/04/19 21:26	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/04/19 21:26	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/04/19 21:26	74-87-3	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/04/19 21:26	96-12-8	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 21:26	124-48-1	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 21:26	106-93-4	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/04/19 21:26	74-95-3	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/04/19 21:26	95-50-1	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 21:26	106-46-7	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/04/19 21:26	110-57-6	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/04/19 21:26	75-34-3	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 21:26	107-06-2	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 21:26	75-35-4	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/04/19 21:26	156-59-2	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		04/04/19 21:26	156-60-5	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 21:26	78-87-5	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 21:26	10061-01-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/04/19 21:26	10061-02-6	
Ethylbenzene	**59.0**	ug/L	5.0	1.6	5		04/04/19 21:26	100-41-4	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/04/19 21:26	591-78-6	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/04/19 21:26	74-88-4	
Methylene Chloride	**5.3**	ug/L	5.0	3.8	5		04/04/19 21:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/04/19 21:26	108-10-1	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 21:26	1634-04-4	
Naphthalene	**1520**	ug/L	10.0	4.1	5		04/04/19 21:26	91-20-3	
Styrene	**48.1**	ug/L	5.0	0.85	5		04/04/19 21:26	100-42-5	
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/04/19 21:26	630-20-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 21:26	79-34-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 21:26	127-18-4	
Toluene	**1100**	ug/L	5.0	1.5	5		04/04/19 21:26	108-88-3	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 21:26	71-55-6	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 21:26	79-00-5	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/04/19 21:26	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 21:26	75-69-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/04/19 21:26	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: CO38-PZM006 **Lab ID: 30285945003** Collected: 03/25/19 10:55 Received: 03/25/19 22:00 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		04/04/19 21:26	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 21:26	75-01-4	
Xylene (Total)	**490**	ug/L	15.0	3.9	5		04/04/19 21:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	78-122		5		04/04/19 21:26	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		5		04/04/19 21:26	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		04/04/19 21:26	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		5		04/04/19 21:26	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: CO38-PZM043 **Lab ID: 30285945004** Collected: 03/25/19 11:30 Received: 03/25/19 22:00 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		04/04/19 17:17	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/04/19 17:17	107-13-1	
Benzene	**0.40J**	ug/L	1.0	0.24	1		04/04/19 17:17	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 17:17	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/04/19 17:17	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 17:17	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/04/19 17:17	74-83-9	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/04/19 17:17	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 17:17	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 17:17	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/04/19 17:17	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/04/19 17:17	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/04/19 17:17	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/04/19 17:17	74-87-3	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/04/19 17:17	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/04/19 17:17	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 17:17	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/04/19 17:17	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/04/19 17:17	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 17:17	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/04/19 17:17	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/04/19 17:17	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/04/19 17:17	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 17:17	75-35-4	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/04/19 17:17	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		04/04/19 17:17	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/04/19 17:17	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/04/19 17:17	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/04/19 17:17	10061-02-6	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 17:17	100-41-4	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/04/19 17:17	591-78-6	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/04/19 17:17	74-88-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/04/19 17:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/04/19 17:17	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/04/19 17:17	1634-04-4	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		04/04/19 17:17	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/04/19 17:17	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		04/04/19 17:17	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 17:17	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 17:17	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		04/04/19 17:17	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/04/19 17:17	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 17:17	79-00-5	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/04/19 17:17	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/04/19 17:17	75-69-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/04/19 17:17	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: CO38-PZM043 **Lab ID: 30285945004** Collected: 03/25/19 11:30 Received: 03/25/19 22:00 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		04/04/19 17:17	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 17:17	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		04/04/19 17:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		04/04/19 17:17	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		1		04/04/19 17:17	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		04/04/19 17:17	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		1		04/04/19 17:17	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: CO37-PZM038 **Lab ID: 30285945005** Collected: 03/25/19 12:15 Received: 03/25/19 22:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**17.3J**	ug/L	50.0	14.2	5		04/04/19 23:06	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/04/19 23:06	107-13-1	
Benzene	**13900**	ug/L	200	48.0	200		04/04/19 19:34	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 23:06	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 23:06	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 23:06	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/04/19 23:06	74-83-9	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/04/19 23:06	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 23:06	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 23:06	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/04/19 23:06	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/04/19 23:06	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/04/19 23:06	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/04/19 23:06	74-87-3	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/04/19 23:06	96-12-8	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 23:06	124-48-1	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 23:06	106-93-4	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/04/19 23:06	74-95-3	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/04/19 23:06	95-50-1	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 23:06	106-46-7	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/04/19 23:06	110-57-6	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/04/19 23:06	75-34-3	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 23:06	107-06-2	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 23:06	75-35-4	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/04/19 23:06	156-59-2	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		04/04/19 23:06	156-60-5	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 23:06	78-87-5	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 23:06	10061-01-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/04/19 23:06	10061-02-6	
Ethylbenzene	**244**	ug/L	5.0	1.6	5		04/04/19 23:06	100-41-4	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/04/19 23:06	591-78-6	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/04/19 23:06	74-88-4	
Methylene Chloride	**4.5J**	ug/L	5.0	3.8	5		04/04/19 23:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/04/19 23:06	108-10-1	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 23:06	1634-04-4	
Naphthalene	**1370**	ug/L	10.0	4.1	5		04/04/19 23:06	91-20-3	
Styrene	**366**	ug/L	5.0	0.85	5		04/04/19 23:06	100-42-5	
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/04/19 23:06	630-20-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 23:06	79-34-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 23:06	127-18-4	
Toluene	**8190**	ug/L	200	60.0	200		04/04/19 19:34	108-88-3	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 23:06	71-55-6	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 23:06	79-00-5	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/04/19 23:06	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 23:06	75-69-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/04/19 23:06	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: CO37-PZM038 **Lab ID: 30285945005** Collected: 03/25/19 12:15 Received: 03/25/19 22:00 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		04/04/19 23:06	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 23:06	75-01-4	
Xylene (Total)	**1930**	ug/L	15.0	3.9	5		04/04/19 23:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	78-122		5		04/04/19 23:06	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		5		04/04/19 23:06	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		04/04/19 23:06	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		5		04/04/19 23:06	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: CO39-PZM007 **Lab ID: 30285945006** Collected: 03/25/19 13:20 Received: 03/25/19 22:00 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		04/04/19 19:46	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/04/19 19:46	107-13-1	
Benzene	**282**	ug/L	1.0	0.24	1		04/04/19 19:46	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 19:46	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/04/19 19:46	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 19:46	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/04/19 19:46	74-83-9	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/04/19 19:46	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 19:46	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 19:46	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/04/19 19:46	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/04/19 19:46	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/04/19 19:46	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/04/19 19:46	74-87-3	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/04/19 19:46	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/04/19 19:46	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 19:46	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/04/19 19:46	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/04/19 19:46	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 19:46	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/04/19 19:46	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/04/19 19:46	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/04/19 19:46	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 19:46	75-35-4	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/04/19 19:46	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		04/04/19 19:46	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/04/19 19:46	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/04/19 19:46	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/04/19 19:46	10061-02-6	
Ethylbenzene	**0.99J**	ug/L	1.0	0.31	1		04/04/19 19:46	100-41-4	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/04/19 19:46	591-78-6	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/04/19 19:46	74-88-4	
Methylene Chloride	**1.0**	ug/L	1.0	0.77	1		04/04/19 19:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/04/19 19:46	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/04/19 19:46	1634-04-4	
Naphthalene	**433**	ug/L	40.0	16.4	20		04/04/19 20:11	91-20-3	
Styrene	**0.55J**	ug/L	1.0	0.17	1		04/04/19 19:46	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		04/04/19 19:46	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 19:46	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 19:46	127-18-4	
Toluene	**9.9**	ug/L	1.0	0.30	1		04/04/19 19:46	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/04/19 19:46	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 19:46	79-00-5	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/04/19 19:46	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/04/19 19:46	75-69-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/04/19 19:46	96-18-4	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: CO39-PZM007 **Lab ID: 30285945006** Collected: 03/25/19 13:20 Received: 03/25/19 22:00 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		04/04/19 19:46	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 19:46	75-01-4	
Xylene (Total)	**4.7**	ug/L	3.0	0.78	1		04/04/19 19:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	78-122		1		04/04/19 19:46	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		1		04/04/19 19:46	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		04/04/19 19:46	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		1		04/04/19 19:46	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: CO39-PZM042 **Lab ID: 30285945007** Collected: 03/25/19 14:00 Received: 03/25/19 22:00 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		04/04/19 21:01	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/04/19 21:01	107-13-1	
Benzene	**1290**	ug/L	50.0	12.0	50		04/04/19 17:54	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 21:01	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/04/19 21:01	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 21:01	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/04/19 21:01	74-83-9	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/04/19 21:01	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 21:01	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 21:01	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/04/19 21:01	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/04/19 21:01	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/04/19 21:01	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/04/19 21:01	74-87-3	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/04/19 21:01	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/04/19 21:01	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 21:01	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/04/19 21:01	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/04/19 21:01	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 21:01	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/04/19 21:01	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/04/19 21:01	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/04/19 21:01	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 21:01	75-35-4	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/04/19 21:01	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		04/04/19 21:01	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/04/19 21:01	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/04/19 21:01	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/04/19 21:01	10061-02-6	
Ethylbenzene	**12.3**	ug/L	1.0	0.31	1		04/04/19 21:01	100-41-4	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/04/19 21:01	591-78-6	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/04/19 21:01	74-88-4	
Methylene Chloride	**0.86J**	ug/L	1.0	0.77	1		04/04/19 21:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/04/19 21:01	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/04/19 21:01	1634-04-4	
Naphthalene	**1280**	ug/L	100	41.0	50		04/04/19 17:54	91-20-3	
Styrene	**16.4**	ug/L	1.0	0.17	1		04/04/19 21:01	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		04/04/19 21:01	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 21:01	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 21:01	127-18-4	
Toluene	**377**	ug/L	1.0	0.30	1		04/04/19 21:01	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/04/19 21:01	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 21:01	79-00-5	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/04/19 21:01	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/04/19 21:01	75-69-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/04/19 21:01	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: CO39-PZM042 **Lab ID: 30285945007** Collected: 03/25/19 14:00 Received: 03/25/19 22:00 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		04/04/19 21:01	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 21:01	75-01-4	
Xylene (Total)	**117**	ug/L	3.0	0.78	1		04/04/19 21:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	78-122		1		04/04/19 21:01	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		1		04/04/19 21:01	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		1		04/04/19 21:01	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		1		04/04/19 21:01	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: CO41-PZM036 **Lab ID: 30285945008** Collected: 03/25/19 14:50 Received: 03/25/19 22:00 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		04/05/19 01:11	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/05/19 01:11	107-13-1	
Benzene	**224000**	ug/L	1000	240	1000		04/04/19 22:29	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/05/19 01:11	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/05/19 01:11	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 01:11	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/05/19 01:11	74-83-9	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/05/19 01:11	78-93-3	
Carbon disulfide	**1.8J**	ug/L	5.0	1.6	5		04/05/19 01:11	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/05/19 01:11	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/05/19 01:11	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/05/19 01:11	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/05/19 01:11	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/05/19 01:11	74-87-3	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/05/19 01:11	96-12-8	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/05/19 01:11	124-48-1	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/05/19 01:11	106-93-4	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/05/19 01:11	74-95-3	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/05/19 01:11	95-50-1	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/05/19 01:11	106-46-7	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/05/19 01:11	110-57-6	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/05/19 01:11	75-34-3	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/05/19 01:11	107-06-2	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 01:11	75-35-4	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/05/19 01:11	156-59-2	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		04/05/19 01:11	156-60-5	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/05/19 01:11	78-87-5	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/05/19 01:11	10061-01-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/05/19 01:11	10061-02-6	
Ethylbenzene	**520**	ug/L	5.0	1.6	5		04/05/19 01:11	100-41-4	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/05/19 01:11	591-78-6	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/05/19 01:11	74-88-4	
Methylene Chloride	**4.9J**	ug/L	5.0	3.8	5		04/05/19 01:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/05/19 01:11	108-10-1	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/05/19 01:11	1634-04-4	
Naphthalene	**382**	ug/L	10.0	4.1	5		04/05/19 01:11	91-20-3	
Styrene	**308**	ug/L	5.0	0.85	5		04/05/19 01:11	100-42-5	
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/05/19 01:11	630-20-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/05/19 01:11	79-34-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 01:11	127-18-4	
Toluene	**71800**	ug/L	500	150	500		04/04/19 22:04	108-88-3	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/05/19 01:11	71-55-6	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/05/19 01:11	79-00-5	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/05/19 01:11	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/05/19 01:11	75-69-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/05/19 01:11	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: CO41-PZM036 **Lab ID: 30285945008** Collected: 03/25/19 14:50 Received: 03/25/19 22:00 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		04/05/19 01:11	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 01:11	75-01-4	
Xylene (Total)	**11300**	ug/L	1500	390	500		04/04/19 22:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		5		04/05/19 01:11	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	80-120		5		04/05/19 01:11	17060-07-0	
Toluene-d8 (S)	92	%.	80-120		5		04/05/19 01:11	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		5		04/05/19 01:11	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.: 30285945

Sample: CO41-PZM001 **Lab ID: 30285945009** Collected: 03/25/19 15:30 Received: 03/25/19 22:00 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		04/04/19 17:41	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/04/19 17:41	107-13-1	
Benzene	**1.7**	ug/L	1.0	0.24	1		04/04/19 17:41	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 17:41	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/04/19 17:41	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 17:41	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/04/19 17:41	74-83-9	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/04/19 17:41	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 17:41	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 17:41	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/04/19 17:41	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/04/19 17:41	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/04/19 17:41	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/04/19 17:41	74-87-3	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/04/19 17:41	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/04/19 17:41	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 17:41	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/04/19 17:41	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/04/19 17:41	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 17:41	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/04/19 17:41	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/04/19 17:41	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/04/19 17:41	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 17:41	75-35-4	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/04/19 17:41	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		04/04/19 17:41	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/04/19 17:41	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/04/19 17:41	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/04/19 17:41	10061-02-6	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 17:41	100-41-4	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/04/19 17:41	591-78-6	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/04/19 17:41	74-88-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/04/19 17:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/04/19 17:41	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/04/19 17:41	1634-04-4	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		04/04/19 17:41	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/04/19 17:41	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		04/04/19 17:41	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 17:41	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 17:41	127-18-4	
Toluene	**0.60J**	ug/L	1.0	0.30	1		04/04/19 17:41	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/04/19 17:41	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 17:41	79-00-5	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/04/19 17:41	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/04/19 17:41	75-69-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/04/19 17:41	96-18-4	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: CO41-PZM001 **Lab ID: 30285945009** Collected: 03/25/19 15:30 Received: 03/25/19 22:00 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		04/04/19 17:41	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 17:41	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		04/04/19 17:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		04/04/19 17:41	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		1		04/04/19 17:41	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		04/04/19 17:41	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		04/04/19 17:41	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: Trip Blank **Lab ID: 30285945010** Collected: 03/25/19 00:01 Received: 03/25/19 22:00 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		04/04/19 16:27	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/04/19 16:27	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		04/04/19 16:27	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 16:27	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/04/19 16:27	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 16:27	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/04/19 16:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		04/04/19 16:27	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 16:27	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 16:27	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/04/19 16:27	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/04/19 16:27	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/04/19 16:27	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/04/19 16:27	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		04/04/19 16:27	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/04/19 16:27	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 16:27	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/04/19 16:27	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/04/19 16:27	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 16:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		04/04/19 16:27	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/04/19 16:27	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/04/19 16:27	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 16:27	75-35-4	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/04/19 16:27	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		04/04/19 16:27	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/04/19 16:27	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/04/19 16:27	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/04/19 16:27	10061-02-6	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 16:27	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.66	1		04/04/19 16:27	591-78-6	
Iodomethane	ND	ug/L	1.0	0.67	1		04/04/19 16:27	74-88-4	
Methylene Chloride	**1.7**	ug/L	1.0	0.77	1		04/04/19 16:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		04/04/19 16:27	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/04/19 16:27	1634-04-4	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		04/04/19 16:27	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/04/19 16:27	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		04/04/19 16:27	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 16:27	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 16:27	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		04/04/19 16:27	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/04/19 16:27	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 16:27	79-00-5	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/04/19 16:27	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/04/19 16:27	75-69-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/04/19 16:27	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30285945

Sample: Trip Blank **Lab ID: 30285945010** Collected: 03/25/19 00:01 Received: 03/25/19 22:00 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		04/04/19 16:27	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 16:27	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		04/04/19 16:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		04/04/19 16:27	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		1		04/04/19 16:27	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		04/04/19 16:27	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		04/04/19 16:27	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30285945

QC Batch: 336980 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30285945001, 30285945002, 30285945003, 30285945004, 30285945005, 30285945006, 30285945007, 30285945008, 30285945009, 30285945010

METHOD BLANK: 1639972 Matrix: Water
Associated Lab Samples: 30285945001, 30285945002, 30285945003, 30285945004, 30285945005, 30285945006, 30285945007, 30285945008, 30285945009, 30285945010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	04/04/19 16:02	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	04/04/19 16:02	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	04/04/19 16:02	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	04/04/19 16:02	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	04/04/19 16:02	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	04/04/19 16:02	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	04/04/19 16:02	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	04/04/19 16:02	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	04/04/19 16:02	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	04/04/19 16:02	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	04/04/19 16:02	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	04/04/19 16:02	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	04/04/19 16:02	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	04/04/19 16:02	
2-Hexanone	ug/L	10.0 U	10.0	0.66	04/04/19 16:02	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	04/04/19 16:02	
Acetone	ug/L	10.0 U	10.0	2.8	04/04/19 16:02	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	04/04/19 16:02	
Benzene	ug/L	1.0 U	1.0	0.24	04/04/19 16:02	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	04/04/19 16:02	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	04/04/19 16:02	
Bromoform	ug/L	1.0 U	1.0	0.32	04/04/19 16:02	
Bromomethane	ug/L	1.0 U	1.0	0.49	04/04/19 16:02	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	04/04/19 16:02	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	04/04/19 16:02	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	04/04/19 16:02	
Chloroethane	ug/L	1.0 U	1.0	0.55	04/04/19 16:02	
Chloroform	ug/L	1.0 U	1.0	0.30	04/04/19 16:02	
Chloromethane	ug/L	1.0 U	1.0	0.68	04/04/19 16:02	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	04/04/19 16:02	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	04/04/19 16:02	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	04/04/19 16:02	
Dibromomethane	ug/L	1.0 U	1.0	0.40	04/04/19 16:02	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	04/04/19 16:02	
Iodomethane	ug/L	50.0 U	50.0	0.67	04/04/19 16:02	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	04/04/19 16:02	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	04/04/19 16:02	
Naphthalene	ug/L	2.0 U	2.0	0.82	04/04/19 16:02	
Styrene	ug/L	1.0 U	1.0	0.17	04/04/19 16:02	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	04/04/19 16:02	

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.: 30285945

METHOD BLANK: 1639972 Matrix: Water

Associated Lab Samples: 30285945001, 30285945002, 30285945003, 30285945004, 30285945005, 30285945006, 30285945007, 30285945008, 30285945009, 30285945010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.30	04/04/19 16:02	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	04/04/19 16:02	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	04/04/19 16:02	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	04/04/19 16:02	
Trichloroethene	ug/L	1.0 U	1.0	0.39	04/04/19 16:02	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	04/04/19 16:02	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	04/04/19 16:02	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	04/04/19 16:02	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	04/04/19 16:02	
1,2-Dichloroethane-d4 (S)	%.	96	80-120		04/04/19 16:02	
4-Bromofluorobenzene (S)	%.	100	78-122		04/04/19 16:02	
Dibromofluoromethane (S)	%.	99	80-120		04/04/19 16:02	
Toluene-d8 (S)	%.	98	80-120		04/04/19 16:02	

LABORATORY CONTROL SAMPLE: 1639973

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	19.1	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	70-130	
1,1,2-Trichloroethane	ug/L	20	18.5	93	70-130	
1,1-Dichloroethane	ug/L	20	18.2	91	68-121	
1,1-Dichloroethene	ug/L	20	18.1	91	63-129	
1,2,3-Trichloropropane	ug/L	20	18.6	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.6	98	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	19.5	98	70-130	
1,2-Dichlorobenzene	ug/L	20	19.1	95	70-130	
1,2-Dichloroethane	ug/L	20	17.4	87	67-117	
1,2-Dichloropropane	ug/L	20	17.5	88	69-121	
1,4-Dichlorobenzene	ug/L	20	18.4	92	70-130	
2-Butanone (MEK)	ug/L	20	15.8	79	59-128	
2-Hexanone	ug/L	20	19.7	99	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.5	98	63-126	
Acetone	ug/L	20	18.0	90	37-150	
Acrylonitrile	ug/L	20	16.6	83	62-128	
Benzene	ug/L	20	18.3	91	70-130	
Bromochloromethane	ug/L	20	20.1	100	59-137	
Bromodichloromethane	ug/L	20	18.9	94	70-130	
Bromoform	ug/L	20	18.0	90	65-130	
Bromomethane	ug/L	20	24.2	121	45-148	
Carbon disulfide	ug/L	20	18.4	92	55-123	
Carbon tetrachloride	ug/L	20	18.4	92	69-126	
Chlorobenzene	ug/L	20	18.9	94	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.: 30285945

LABORATORY CONTROL SAMPLE: 1639973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	24.0	120	68-146	
Chloroform	ug/L	20	17.4	87	69-116	
Chloromethane	ug/L	20	19.7	99	56-129	
cis-1,2-Dichloroethene	ug/L	20	17.5	87	66-118	
cis-1,3-Dichloropropene	ug/L	20	18.1	91	70-130	
Dibromochloromethane	ug/L	20	18.8	94	70-130	
Dibromomethane	ug/L	20	18.4	92	70-130	
Ethylbenzene	ug/L	20	18.1	91	70-130	
Iodomethane	ug/L	20	18.0J	90	10-175	
Methyl-tert-butyl ether	ug/L	20	18.1	90	70-130	
Methylene Chloride	ug/L	20	18.7	93	65-124	
Naphthalene	ug/L	20	20.6	103	69-135	
Styrene	ug/L	20	19.0	95	70-130	
Tetrachloroethene	ug/L	20	19.5	97	70-130	
Toluene	ug/L	20	19.5	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	64-123	
trans-1,3-Dichloropropene	ug/L	20	18.6	93	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	18.6	93	37-119	
Trichloroethene	ug/L	20	18.6	93	70-130	
Trichlorofluoromethane	ug/L	20	22.8	114	64-163	
Vinyl acetate	ug/L	20	19.8	99	45-129	
Vinyl chloride	ug/L	20	23.6	118	70-130	
Xylene (Total)	ug/L	60	55.8	93	70-130	
1,2-Dichloroethane-d4 (S)	%.			96	80-120	
4-Bromofluorobenzene (S)	%.			97	78-122	
Dibromofluoromethane (S)	%.			100	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1639974 1639975

Parameter	Units	30285945004 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	15.7	14.7	79	73	52-123	7	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	18.2	16.7	91	84	67-127	9	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.3	16.0	87	80	55-118	8	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	17.2	16.1	86	80	60-117	7	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	17.3	16.1	86	81	68-118	7	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	17.2	16.0	86	80	62-126	7	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	17.7	16.5	89	83	56-129	7	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	17.2	16.0	86	80	46-130	7	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	17.4	16.8	87	84	69-124	4	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	18.1	15.9	90	80	66-116	12	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	16.4	15.6	82	78	67-117	5	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	16.5	15.1	83	75	61-128	9	30	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30285945

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1639974			1639975							
Parameter	Units	30285945004 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	17.6	15.8	88	79	68-116	11	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	15.3	16.7	76	84	63-175	9	30	
2-Hexanone	ug/L	10.0 U	20	20	17.8	19.7	89	98	65-151	10	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	17.7	19.1	88	96	66-149	8	30	
Acetone	ug/L	10.0 U	20	20	17.5	18.3	88	92	10-175	5	30	
Acrylonitrile	ug/L	4.0 U	20	20	14.1	15.6	70	78	42-165	10	30	
Benzene	ug/L	0.40J	20	20	17.9	16.4	88	80	67-119	9	30	
Bromochloromethane	ug/L	1.0 U	20	20	18.3	17.0	91	85	64-124	7	30	
Bromodichloromethane	ug/L	1.0 U	20	20	16.7	15.4	84	77	67-126	8	30	
Bromoform	ug/L	1.0 U	20	20	15.9	14.9	79	75	43-114	6	30	
Bromomethane	ug/L	1.0 U	20	20	21.7	23.9	108	119	10-164	10	30	
Carbon disulfide	ug/L	1.0 U	20	20	17.7	16.5	88	83	37-135	6	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	17.0	15.9	85	79	60-137	7	30	
Chlorobenzene	ug/L	1.0 U	20	20	17.6	16.2	88	81	68-119	8	30	
Chloroethane	ug/L	1.0 U	20	20	21.0	23.1	105	115	54-169	10	30	
Chloroform	ug/L	1.0 U	20	20	16.2	14.8	81	74	69-113	9	30	
Chloromethane	ug/L	1.0 U	20	20	18.2	18.7	91	93	43-159	3	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.4	14.5	82	72	65-121	12	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.7	15.5	84	77	61-120	8	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.0	15.5	85	77	56-121	9	30	
Dibromomethane	ug/L	1.0 U	20	20	16.6	16.0	83	80	56-133	4	30	
Ethylbenzene	ug/L	1.0 U	20	20	17.2	16.0	86	80	69-127	7	30	
Iodomethane	ug/L	50.0 U	20	20	15.4J	19.0J	77	95	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	16.7	17.5	84	88	70-130	5	30	
Methylene Chloride	ug/L	1.0 U	20	20	16.6	15.0	83	75	49-144	10	30	
Naphthalene	ug/L	2.0 U	20	20	17.2	16.3	86	82	60-136	5	30	
Styrene	ug/L	1.0 U	20	20	17.5	16.0	88	80	65-120	9	30	
Tetrachloroethene	ug/L	1.0 U	20	20	18.6	16.9	93	84	64-123	9	30	
Toluene	ug/L	1.0 U	20	20	18.2	16.2	90	80	70-130	11	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.8	15.8	89	79	66-119	12	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.8	15.4	84	77	52-117	9	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	16.4	16.2	82	81	13-100	1	30	
Trichloroethene	ug/L	1.0 U	20	20	18.2	16.9	91	85	63-125	7	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	21.7	21.8	108	109	43-186	1	30	
Vinyl acetate	ug/L	10.0 U	20	20	17.3	18.7	87	93	35-150	7	30	
Vinyl chloride	ug/L	1.0 U	20	20	21.8	22.4	109	112	60-133	3	30	
Xylene (Total)	ug/L	3.0 U	60	60	52.1	48.2	86	79	69-128	8	30	
1,2-Dichloroethane-d4 (S)	%.						98	98	80-120			
4-Bromofluorobenzene (S)	%.						98	96	78-122			
Dibromofluoromethane (S)	%.						100	101	80-120			
Toluene-d8 (S)	%.						98	100	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.: 30285945

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30285945

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30285945001	**CO36-PZM008**	EPA 8260B	336980		
30285945002	**CO36-PZM043**	EPA 8260B	336980		
30285945003	**CO38-PZM006**	EPA 8260B	336980		
30285945004	**CO38-PZM043**	EPA 8260B	336980		
30285945005	**CO37-PZM038**	EPA 8260B	336980		
30285945006	**CO39-PZM007**	EPA 8260B	336980		
30285945007	**CO39-PZM042**	EPA 8260B	336980		
30285945008	**CO41-PZM036**	EPA 8260B	336980		
30285945009	**CO41-PZM001**	EPA 8260B	336980		
30285945010	**Trip Blank**	EPA 8260B	336980		

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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-1-2

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# : 30285945

30285945

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	Resid	Pace Project No./ Lab I.D.
1	C036-PZM008	WT	G			3/25/19	935		3				3						X	001	
2	C036-PZM043	WT	G				1015		3				3						X	002	Some bottles
3	C038-PZM006	WT	G				1055		3				3						X	003	Say 3/24/19
4	C038-PZM043	WT	G				1130		3				3						X	004	but are all
5	C037-PZM038	WT	G				1215		3				3						X	005	from 3/25/19
6	C039-PZM007	WT	G				1320		3				3						X	006	Couldnt change
7	C039-PZM042	WT	G				1400		3				3						X	007	because wet
8	C041-PZM036	WT	G				1450		3				3						X	008	Tried calling
9	C041-PZM001	WT	G				1530		3				3						X	009	but operator
10	Trip Blanks	WT	G				—		4				4						X	010	couldnt hear
11																					Mee
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]	3/25/19	1609	David L Hillegonn Pace	3/25/19	1609				
	David L Hillegonn Pace	3/25/19	1900	RDS Pace	3-25-19	1910		Y		
	RDS Pace	3-25-19	2200	Ben Martin	3-25-19	2200	2.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Liza Perrin

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 3-25-19

*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 # 30285945

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label BLM
LIMS Login BLM

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 2.1 °C Correction Factor: 0 °C Final Temp: 2.1 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A Date and Initials of person examining contents: BLM 3-26-19

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 CO36-PZM008, CO36-PZM043, CO38-PZM006, and CO38-PZM043 all have a date of 3-24-19.
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 BLM Date/time of preservation; Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad 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

April 08, 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.: 30286167

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2019. 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.: 30286167

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.: 30286167

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30286167001	**Trip Blank**	Water	03/26/19 00:01	03/26/19 23:00
30286167002	**CO27-PZM046**	Water	03/26/19 09:55	03/26/19 23:00
30286167003	**CO27-PZM012**	Water	03/26/19 10:30	03/26/19 23:00
30286167004	**CO40-PZM008**	Water	03/26/19 11:05	03/26/19 23:00
30286167005	**CO42-PZM004**	Water	03/26/19 11:40	03/26/19 23:00
30286167006	**CO02-PZM006**	Water	03/26/19 13:45	03/26/19 23:00
30286167007	**CO93-PZMXXX**	Water	03/26/19 14:40	03/26/19 23:00
30286167008	**CO18-PZM006**	Water	03/26/19 15:30	03/26/19 23:00

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30286167

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30286167001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30286167002	**CO27-PZM046**	EPA 8260B	LEL	53	PASI-PA
30286167003	**CO27-PZM012**	EPA 8260B	LEL	53	PASI-PA
30286167004	**CO40-PZM008**	EPA 8260B	LEL	53	PASI-PA
30286167005	**CO42-PZM004**	EPA 8260B	LEL	53	PASI-PA
30286167006	**CO02-PZM006**	EPA 8260B	LEL	53	PASI-PA
30286167007	**CO93-PZMXXX**	EPA 8260B	LEL	53	PASI-PA
30286167008	**CO18-PZM006**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286167

Sample: Trip Blank **Lab ID: 30286167001** Collected: 03/26/19 00:01 Received: 03/26/19 23:00 Matrix: Water

Comments: • One vial contained headspace.

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		04/04/19 16:52	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/04/19 16:52	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 16:52	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 16:52	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/04/19 16:52	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 16:52	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/04/19 16:52	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/04/19 16:52	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 16:52	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/04/19 16:52	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/04/19 16:52	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/04/19 16:52	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 16:52	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/04/19 16:52	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/04/19 16:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/04/19 16:52	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		04/04/19 16:52	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/04/19 16:52	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		04/04/19 16:52	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 16:52	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/04/19 16:52	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 16:52	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/04/19 16:52	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 16:52	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 16:52	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/04/19 16:52	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/04/19 16:52	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/04/19 16:52	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/04/19 16:52	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/04/19 16:52	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/04/19 16:52	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 16:52	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/04/19 16:52	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/04/19 16:52	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/04/19 16:52	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		04/04/19 16:52	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/04/19 16:52	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 16:52	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		04/04/19 16:52	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/04/19 16:52	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/04/19 16:52	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/04/19 16:52	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 16:52	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		04/04/19 16:52	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/04/19 16:52	156-59-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286167

Sample: Trip Blank **Lab ID: 30286167001** Collected: 03/26/19 00:01 Received: 03/26/19 23:00 Matrix: Water

Comments: • One vial contained headspace.

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		04/04/19 16:52	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		04/04/19 16:52	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/04/19 16:52	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/04/19 16:52	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		04/04/19 16:52	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	80-120		1		04/04/19 16:52	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		04/04/19 16:52	2037-26-5	
Dibromofluoromethane (S)	104	%.	80-120		1		04/04/19 16:52	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286167

Sample: CO27-PZM046 **Lab ID: 30286167002** Collected: 03/26/19 09:55 Received: 03/26/19 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		04/05/19 00:46	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/05/19 00:46	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/05/19 00:46	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/05/19 00:46	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/05/19 00:46	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 00:46	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/05/19 00:46	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/05/19 00:46	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/05/19 00:46	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/05/19 00:46	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/05/19 00:46	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/05/19 00:46	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/05/19 00:46	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/05/19 00:46	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/05/19 00:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/05/19 00:46	108-10-1	
Acetone	**35.6J**	ug/L	50.0	14.2	5		04/05/19 00:46	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/05/19 00:46	107-13-1	
Benzene	**191000**	ug/L	2000	480	2000		04/04/19 21:39	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/05/19 00:46	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/05/19 00:46	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 00:46	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/05/19 00:46	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 00:46	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/05/19 00:46	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/05/19 00:46	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/05/19 00:46	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/05/19 00:46	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/05/19 00:46	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/05/19 00:46	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/05/19 00:46	74-95-3	
Ethylbenzene	**552**	ug/L	5.0	1.6	5		04/05/19 00:46	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/05/19 00:46	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/05/19 00:46	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		04/05/19 00:46	75-09-2	
Naphthalene	**14100**	ug/L	4000	1640	2000		04/04/19 21:39	91-20-3	
Styrene	**141**	ug/L	5.0	0.85	5		04/05/19 00:46	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 00:46	127-18-4	
Toluene	**35100**	ug/L	2000	600	2000		04/04/19 21:39	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/05/19 00:46	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/05/19 00:46	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/05/19 00:46	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 00:46	75-01-4	
Xylene (Total)	**7360**	ug/L	6000	1560	2000		04/04/19 21:39	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/05/19 00:46	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/05/19 00:46	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286167

Sample: CO27-PZM046 **Lab ID: 30286167002** Collected: 03/26/19 09:55 Received: 03/26/19 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		04/05/19 00:46	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/05/19 00:46	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/05/19 00:46	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		5		04/05/19 00:46	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	80-120		5		04/05/19 00:46	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		5		04/05/19 00:46	2037-26-5	
Dibromofluoromethane (S)	105	%.	80-120		5		04/05/19 00:46	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286167

Sample: CO27-PZM012 **Lab ID: 30286167003** Collected: 03/26/19 10:30 Received: 03/26/19 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		04/04/19 21:51	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 21:51	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 21:51	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 21:51	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/04/19 21:51	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 21:51	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/04/19 21:51	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/04/19 21:51	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 21:51	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/04/19 21:51	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 21:51	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 21:51	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 21:51	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/04/19 21:51	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/04/19 21:51	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/04/19 21:51	108-10-1	
Acetone	**16.7J**	ug/L	50.0	14.2	5		04/04/19 21:51	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/04/19 21:51	107-13-1	
Benzene	**3630**	ug/L	100	24.0	100		04/04/19 18:44	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 21:51	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 21:51	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 21:51	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/04/19 21:51	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 21:51	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 21:51	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/04/19 21:51	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/04/19 21:51	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/04/19 21:51	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/04/19 21:51	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 21:51	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/04/19 21:51	74-95-3	
Ethylbenzene	**35.2**	ug/L	5.0	1.6	5		04/04/19 21:51	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/04/19 21:51	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 21:51	1634-04-4	
Methylene Chloride	**4.1J**	ug/L	5.0	3.8	5		04/04/19 21:51	75-09-2	
Naphthalene	**316**	ug/L	10.0	4.1	5		04/04/19 21:51	91-20-3	
Styrene	**32.8**	ug/L	5.0	0.85	5		04/04/19 21:51	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 21:51	127-18-4	
Toluene	**854**	ug/L	5.0	1.5	5		04/04/19 21:51	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/04/19 21:51	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 21:51	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/04/19 21:51	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 21:51	75-01-4	
Xylene (Total)	**308**	ug/L	15.0	3.9	5		04/04/19 21:51	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/04/19 21:51	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 21:51	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286167

Sample: CO27-PZM012 **Lab ID: 30286167003** Collected: 03/26/19 10:30 Received: 03/26/19 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		04/04/19 21:51	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/04/19 21:51	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/04/19 21:51	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		5		04/04/19 21:51	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		5		04/04/19 21:51	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		04/04/19 21:51	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		04/04/19 21:51	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286167

Sample: CO40-PZM008 **Lab ID: 30286167004** Collected: 03/26/19 11:05 Received: 03/26/19 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		04/04/19 20:36	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/04/19 20:36	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 20:36	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 20:36	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/04/19 20:36	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 20:36	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/04/19 20:36	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/04/19 20:36	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 20:36	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/04/19 20:36	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/04/19 20:36	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/04/19 20:36	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 20:36	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/04/19 20:36	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/04/19 20:36	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/04/19 20:36	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		04/04/19 20:36	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/04/19 20:36	107-13-1	
Benzene	**40.5**	ug/L	1.0	0.24	1		04/04/19 20:36	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 20:36	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/04/19 20:36	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 20:36	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/04/19 20:36	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 20:36	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 20:36	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/04/19 20:36	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/04/19 20:36	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/04/19 20:36	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/04/19 20:36	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/04/19 20:36	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/04/19 20:36	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 20:36	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/04/19 20:36	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/04/19 20:36	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/04/19 20:36	75-09-2	
Naphthalene	**16.0**	ug/L	2.0	0.82	1		04/04/19 20:36	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/04/19 20:36	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 20:36	127-18-4	
Toluene	**4.7**	ug/L	1.0	0.30	1		04/04/19 20:36	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/04/19 20:36	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/04/19 20:36	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/04/19 20:36	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 20:36	75-01-4	
Xylene (Total)	**2.8J**	ug/L	3.0	0.78	1		04/04/19 20:36	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/04/19 20:36	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/04/19 20:36	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286167

Sample: CO40-PZM008 **Lab ID: 30286167004** Collected: 03/26/19 11:05 Received: 03/26/19 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		04/04/19 20:36	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/04/19 20:36	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/04/19 20:36	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		04/04/19 20:36	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		1		04/04/19 20:36	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		04/04/19 20:36	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		1		04/04/19 20:36	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286167

Sample: CO42-PZM004 **Lab ID: 30286167005** Collected: 03/26/19 11:40 Received: 03/26/19 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		04/04/19 18:06	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/04/19 18:06	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 18:06	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 18:06	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/04/19 18:06	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 18:06	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/04/19 18:06	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/04/19 18:06	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 18:06	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/04/19 18:06	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/04/19 18:06	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/04/19 18:06	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/04/19 18:06	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/04/19 18:06	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/04/19 18:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/04/19 18:06	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		04/04/19 18:06	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/04/19 18:06	107-13-1	
Benzene	**1.1**	ug/L	1.0	0.24	1		04/04/19 18:06	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 18:06	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/04/19 18:06	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 18:06	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/04/19 18:06	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 18:06	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/04/19 18:06	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/04/19 18:06	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/04/19 18:06	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/04/19 18:06	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/04/19 18:06	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/04/19 18:06	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/04/19 18:06	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 18:06	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/04/19 18:06	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/04/19 18:06	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/04/19 18:06	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		04/04/19 18:06	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/04/19 18:06	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/04/19 18:06	127-18-4	
Toluene	**1.4**	ug/L	1.0	0.30	1		04/04/19 18:06	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/04/19 18:06	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/04/19 18:06	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/04/19 18:06	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/04/19 18:06	75-01-4	
Xylene (Total)	**1.4J**	ug/L	3.0	0.78	1		04/04/19 18:06	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/04/19 18:06	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/04/19 18:06	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286167

Sample: CO42-PZM004 **Lab ID: 30286167005** Collected: 03/26/19 11:40 Received: 03/26/19 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		04/04/19 18:06	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/04/19 18:06	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/04/19 18:06	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		04/04/19 18:06	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		1		04/04/19 18:06	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		04/04/19 18:06	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		1		04/04/19 18:06	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286167

Sample: CO02-PZM006 **Lab ID: 30286167006** Collected: 03/26/19 13:45 Received: 03/26/19 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		04/04/19 23:31	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 23:31	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 23:31	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 23:31	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/04/19 23:31	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 23:31	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/04/19 23:31	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/04/19 23:31	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 23:31	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/04/19 23:31	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 23:31	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 23:31	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 23:31	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/04/19 23:31	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/04/19 23:31	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/04/19 23:31	108-10-1	
Acetone	**29.3J**	ug/L	50.0	14.2	5		04/04/19 23:31	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/04/19 23:31	107-13-1	
Benzene	**127000**	ug/L	1000	240	1000		04/04/19 20:24	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 23:31	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 23:31	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 23:31	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/04/19 23:31	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 23:31	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 23:31	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/04/19 23:31	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/04/19 23:31	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/04/19 23:31	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/04/19 23:31	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 23:31	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/04/19 23:31	74-95-3	
Ethylbenzene	**252**	ug/L	5.0	1.6	5		04/04/19 23:31	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/04/19 23:31	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 23:31	1634-04-4	
Methylene Chloride	**4.3J**	ug/L	5.0	3.8	5		04/04/19 23:31	75-09-2	
Naphthalene	**231**	ug/L	10.0	4.1	5		04/04/19 23:31	91-20-3	
Styrene	**3.0J**	ug/L	5.0	0.85	5		04/04/19 23:31	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 23:31	127-18-4	
Toluene	**86.0**	ug/L	5.0	1.5	5		04/04/19 23:31	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/04/19 23:31	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 23:31	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/04/19 23:31	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 23:31	75-01-4	
Xylene (Total)	**206**	ug/L	15.0	3.9	5		04/04/19 23:31	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/04/19 23:31	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 23:31	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286167

Sample: CO02-PZM006 **Lab ID: 30286167006** Collected: 03/26/19 13:45 Received: 03/26/19 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		04/04/19 23:31	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/04/19 23:31	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/04/19 23:31	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		5		04/04/19 23:31	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%.	80-120		5		04/04/19 23:31	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		04/04/19 23:31	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		5		04/04/19 23:31	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286167

Sample: CO93-PZMXXX **Lab ID: 30286167007** Collected: 03/26/19 14:40 Received: 03/26/19 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		04/04/19 23:56	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 23:56	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 23:56	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 23:56	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/04/19 23:56	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 23:56	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/04/19 23:56	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/04/19 23:56	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 23:56	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/04/19 23:56	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 23:56	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 23:56	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/04/19 23:56	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/04/19 23:56	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/04/19 23:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/04/19 23:56	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		04/04/19 23:56	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/04/19 23:56	107-13-1	
Benzene	**162000**	ug/L	1000	240	1000		04/04/19 20:49	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 23:56	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 23:56	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 23:56	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/04/19 23:56	74-83-9	
Carbon disulfide	**9.9**	ug/L	5.0	1.6	5		04/04/19 23:56	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/04/19 23:56	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/04/19 23:56	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/04/19 23:56	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/04/19 23:56	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/04/19 23:56	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 23:56	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/04/19 23:56	74-95-3	
Ethylbenzene	**752**	ug/L	5.0	1.6	5		04/04/19 23:56	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/04/19 23:56	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 23:56	1634-04-4	
Methylene Chloride	**4.0J**	ug/L	5.0	3.8	5		04/04/19 23:56	75-09-2	
Naphthalene	**1670**	ug/L	10.0	4.1	5		04/04/19 23:56	91-20-3	
Styrene	**832**	ug/L	5.0	0.85	5		04/04/19 23:56	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 23:56	127-18-4	
Toluene	**42500**	ug/L	1000	300	1000		04/04/19 20:49	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/04/19 23:56	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/04/19 23:56	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/04/19 23:56	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/04/19 23:56	75-01-4	
Xylene (Total)	**9840**	ug/L	3000	780	1000		04/04/19 20:49	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/04/19 23:56	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/04/19 23:56	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286167

Sample: CO93-PZMXXX **Lab ID: 30286167007** Collected: 03/26/19 14:40 Received: 03/26/19 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		04/04/19 23:56	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/04/19 23:56	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/04/19 23:56	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		04/04/19 23:56	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		5		04/04/19 23:56	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		5		04/04/19 23:56	2037-26-5	
Dibromofluoromethane (S)	104	%.	80-120		5		04/04/19 23:56	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286167

Sample: CO18-PZM006 **Lab ID: 30286167008** Collected: 03/26/19 15:30 Received: 03/26/19 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		04/05/19 00:21	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/05/19 00:21	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/05/19 00:21	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/05/19 00:21	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/05/19 00:21	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 00:21	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/05/19 00:21	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/05/19 00:21	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/05/19 00:21	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/05/19 00:21	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/05/19 00:21	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/05/19 00:21	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/05/19 00:21	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/05/19 00:21	78-93-3	
2-Hexanone	**3.6J**	ug/L	50.0	3.3	5		04/05/19 00:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/05/19 00:21	108-10-1	
Acetone	**94.0**	ug/L	50.0	14.2	5		04/05/19 00:21	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/05/19 00:21	107-13-1	
Benzene	**338000**	ug/L	2000	480	2000		04/04/19 21:14	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/05/19 00:21	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/05/19 00:21	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 00:21	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/05/19 00:21	74-83-9	
Carbon disulfide	**1.7J**	ug/L	5.0	1.6	5		04/05/19 00:21	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/05/19 00:21	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/05/19 00:21	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/05/19 00:21	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/05/19 00:21	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/05/19 00:21	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/05/19 00:21	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/05/19 00:21	74-95-3	
Ethylbenzene	**63.5**	ug/L	5.0	1.6	5		04/05/19 00:21	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/05/19 00:21	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/05/19 00:21	1634-04-4	
Methylene Chloride	**4.8J**	ug/L	5.0	3.8	5		04/05/19 00:21	75-09-2	
Naphthalene	**221**	ug/L	10.0	4.1	5		04/05/19 00:21	91-20-3	
Styrene	**3.3J**	ug/L	5.0	0.85	5		04/05/19 00:21	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 00:21	127-18-4	
Toluene	**5360**	ug/L	2000	600	2000		04/04/19 21:14	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/05/19 00:21	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/05/19 00:21	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/05/19 00:21	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 00:21	75-01-4	
Xylene (Total)	**1480**	ug/L	15.0	3.9	5		04/05/19 00:21	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/05/19 00:21	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/05/19 00:21	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286167

Sample: CO18-PZM006 **Lab ID: 30286167008** Collected: 03/26/19 15:30 Received: 03/26/19 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		04/05/19 00:21	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/05/19 00:21	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/05/19 00:21	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		5		04/05/19 00:21	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		5		04/05/19 00:21	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		5		04/05/19 00:21	2037-26-5	
Dibromofluoromethane (S)	105	%.	80-120		5		04/05/19 00:21	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30286167

QC Batch: 336980 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30286167001, 30286167002, 30286167003, 30286167004, 30286167005, 30286167006, 30286167007, 30286167008

METHOD BLANK: 1639972 Matrix: Water
Associated Lab Samples: 30286167001, 30286167002, 30286167003, 30286167004, 30286167005, 30286167006, 30286167007, 30286167008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	04/04/19 16:02	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	04/04/19 16:02	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	04/04/19 16:02	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	04/04/19 16:02	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	04/04/19 16:02	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	04/04/19 16:02	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	04/04/19 16:02	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	04/04/19 16:02	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	04/04/19 16:02	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	04/04/19 16:02	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	04/04/19 16:02	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	04/04/19 16:02	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	04/04/19 16:02	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	04/04/19 16:02	
2-Hexanone	ug/L	10.0 U	10.0	0.66	04/04/19 16:02	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	04/04/19 16:02	
Acetone	ug/L	10.0 U	10.0	2.8	04/04/19 16:02	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	04/04/19 16:02	
Benzene	ug/L	1.0 U	1.0	0.24	04/04/19 16:02	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	04/04/19 16:02	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	04/04/19 16:02	
Bromoform	ug/L	1.0 U	1.0	0.32	04/04/19 16:02	
Bromomethane	ug/L	1.0 U	1.0	0.49	04/04/19 16:02	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	04/04/19 16:02	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	04/04/19 16:02	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	04/04/19 16:02	
Chloroethane	ug/L	1.0 U	1.0	0.55	04/04/19 16:02	
Chloroform	ug/L	1.0 U	1.0	0.30	04/04/19 16:02	
Chloromethane	ug/L	1.0 U	1.0	0.68	04/04/19 16:02	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	04/04/19 16:02	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	04/04/19 16:02	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	04/04/19 16:02	
Dibromomethane	ug/L	1.0 U	1.0	0.40	04/04/19 16:02	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	04/04/19 16:02	
Iodomethane	ug/L	50.0 U	50.0	0.67	04/04/19 16:02	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	04/04/19 16:02	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	04/04/19 16:02	
Naphthalene	ug/L	2.0 U	2.0	0.82	04/04/19 16:02	
Styrene	ug/L	1.0 U	1.0	0.17	04/04/19 16:02	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	04/04/19 16:02	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30286167

METHOD BLANK: 1639972 Matrix: Water
Associated Lab Samples: 30286167001, 30286167002, 30286167003, 30286167004, 30286167005, 30286167006, 30286167007, 30286167008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.30	04/04/19 16:02	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	04/04/19 16:02	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	04/04/19 16:02	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	04/04/19 16:02	
Trichloroethene	ug/L	1.0 U	1.0	0.39	04/04/19 16:02	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	04/04/19 16:02	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	04/04/19 16:02	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	04/04/19 16:02	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	04/04/19 16:02	
1,2-Dichloroethane-d4 (S)	%.	96	80-120		04/04/19 16:02	
4-Bromofluorobenzene (S)	%.	100	78-122		04/04/19 16:02	
Dibromofluoromethane (S)	%.	99	80-120		04/04/19 16:02	
Toluene-d8 (S)	%.	98	80-120		04/04/19 16:02	

LABORATORY CONTROL SAMPLE: 1639973

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	19.1	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	70-130	
1,1,2-Trichloroethane	ug/L	20	18.5	93	70-130	
1,1-Dichloroethane	ug/L	20	18.2	91	68-121	
1,1-Dichloroethene	ug/L	20	18.1	91	63-129	
1,2,3-Trichloropropane	ug/L	20	18.6	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.6	98	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	19.5	98	70-130	
1,2-Dichlorobenzene	ug/L	20	19.1	95	70-130	
1,2-Dichloroethane	ug/L	20	17.4	87	67-117	
1,2-Dichloropropane	ug/L	20	17.5	88	69-121	
1,4-Dichlorobenzene	ug/L	20	18.4	92	70-130	
2-Butanone (MEK)	ug/L	20	15.8	79	59-128	
2-Hexanone	ug/L	20	19.7	99	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.5	98	63-126	
Acetone	ug/L	20	18.0	90	37-150	
Acrylonitrile	ug/L	20	16.6	83	62-128	
Benzene	ug/L	20	18.3	91	70-130	
Bromochloromethane	ug/L	20	20.1	100	59-137	
Bromodichloromethane	ug/L	20	18.9	94	70-130	
Bromoform	ug/L	20	18.0	90	65-130	
Bromomethane	ug/L	20	24.2	121	45-148	
Carbon disulfide	ug/L	20	18.4	92	55-123	
Carbon tetrachloride	ug/L	20	18.4	92	69-126	
Chlorobenzene	ug/L	20	18.9	94	70-130	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30286167

LABORATORY CONTROL SAMPLE: 1639973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	24.0	120	68-146	
Chloroform	ug/L	20	17.4	87	69-116	
Chloromethane	ug/L	20	19.7	99	56-129	
cis-1,2-Dichloroethene	ug/L	20	17.5	87	66-118	
cis-1,3-Dichloropropene	ug/L	20	18.1	91	70-130	
Dibromochloromethane	ug/L	20	18.8	94	70-130	
Dibromomethane	ug/L	20	18.4	92	70-130	
Ethylbenzene	ug/L	20	18.1	91	70-130	
Iodomethane	ug/L	20	18.0J	90	10-175	
Methyl-tert-butyl ether	ug/L	20	18.1	90	70-130	
Methylene Chloride	ug/L	20	18.7	93	65-124	
Naphthalene	ug/L	20	20.6	103	69-135	
Styrene	ug/L	20	19.0	95	70-130	
Tetrachloroethene	ug/L	20	19.5	97	70-130	
Toluene	ug/L	20	19.5	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	64-123	
trans-1,3-Dichloropropene	ug/L	20	18.6	93	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	18.6	93	37-119	
Trichloroethene	ug/L	20	18.6	93	70-130	
Trichlorofluoromethane	ug/L	20	22.8	114	64-163	
Vinyl acetate	ug/L	20	19.8	99	45-129	
Vinyl chloride	ug/L	20	23.6	118	70-130	
Xylene (Total)	ug/L	60	55.8	93	70-130	
1,2-Dichloroethane-d4 (S)	%.			96	80-120	
4-Bromofluorobenzene (S)	%.			97	78-122	
Dibromofluoromethane (S)	%.			100	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1639974 1639975

Parameter	Units	30285945004 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	15.7	14.7	79	73	52-123	7	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	18.2	16.7	91	84	67-127	9	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.3	16.0	87	80	55-118	8	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	17.2	16.1	86	80	60-117	7	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	17.3	16.1	86	81	68-118	7	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	17.2	16.0	86	80	62-126	7	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	17.7	16.5	89	83	56-129	7	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	17.2	16.0	86	80	46-130	7	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	17.4	16.8	87	84	69-124	4	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	18.1	15.9	90	80	66-116	12	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	16.4	15.6	82	78	67-117	5	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	16.5	15.1	83	75	61-128	9	30	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30286167

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1639974 1639975

Parameter	Units	30285945004 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	17.6	15.8	88	79	68-116	11	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	15.3	16.7	76	84	63-175	9	30	
2-Hexanone	ug/L	10.0 U	20	20	17.8	19.7	89	98	65-151	10	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	17.7	19.1	88	96	66-149	8	30	
Acetone	ug/L	10.0 U	20	20	17.5	18.3	88	92	10-175	5	30	
Acrylonitrile	ug/L	4.0 U	20	20	14.1	15.6	70	78	42-165	10	30	
Benzene	ug/L	0.40J	20	20	17.9	16.4	88	80	67-119	9	30	
Bromochloromethane	ug/L	1.0 U	20	20	18.3	17.0	91	85	64-124	7	30	
Bromodichloromethane	ug/L	1.0 U	20	20	16.7	15.4	84	77	67-126	8	30	
Bromoform	ug/L	1.0 U	20	20	15.9	14.9	79	75	43-114	6	30	
Bromomethane	ug/L	1.0 U	20	20	21.7	23.9	108	119	10-164	10	30	
Carbon disulfide	ug/L	1.0 U	20	20	17.7	16.5	88	83	37-135	6	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	17.0	15.9	85	79	60-137	7	30	
Chlorobenzene	ug/L	1.0 U	20	20	17.6	16.2	88	81	68-119	8	30	
Chloroethane	ug/L	1.0 U	20	20	21.0	23.1	105	115	54-169	10	30	
Chloroform	ug/L	1.0 U	20	20	16.2	14.8	81	74	69-113	9	30	
Chloromethane	ug/L	1.0 U	20	20	18.2	18.7	91	93	43-159	3	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.4	14.5	82	72	65-121	12	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.7	15.5	84	77	61-120	8	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.0	15.5	85	77	56-121	9	30	
Dibromomethane	ug/L	1.0 U	20	20	16.6	16.0	83	80	56-133	4	30	
Ethylbenzene	ug/L	1.0 U	20	20	17.2	16.0	86	80	69-127	7	30	
Iodomethane	ug/L	50.0 U	20	20	15.4J	19.0J	77	95	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	16.7	17.5	84	88	70-130	5	30	
Methylene Chloride	ug/L	1.0 U	20	20	16.6	15.0	83	75	49-144	10	30	
Naphthalene	ug/L	2.0 U	20	20	17.2	16.3	86	82	60-136	5	30	
Styrene	ug/L	1.0 U	20	20	17.5	16.0	88	80	65-120	9	30	
Tetrachloroethene	ug/L	1.0 U	20	20	18.6	16.9	93	84	64-123	9	30	
Toluene	ug/L	1.0 U	20	20	18.2	16.2	90	80	70-130	11	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.8	15.8	89	79	66-119	12	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.8	15.4	84	77	52-117	9	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	16.4	16.2	82	81	13-100	1	30	
Trichloroethene	ug/L	1.0 U	20	20	18.2	16.9	91	85	63-125	7	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	21.7	21.8	108	109	43-186	1	30	
Vinyl acetate	ug/L	10.0 U	20	20	17.3	18.7	87	93	35-150	7	30	
Vinyl chloride	ug/L	1.0 U	20	20	21.8	22.4	109	112	60-133	3	30	
Xylene (Total)	ug/L	3.0 U	60	60	52.1	48.2	86	79	69-128	8	30	
1,2-Dichloroethane-d4 (S)	%.						98	98	80-120			
4-Bromofluorobenzene (S)	%.						98	96	78-122			
Dibromofluoromethane (S)	%.						100	101	80-120			
Toluene-d8 (S)	%.						98	100	80-120			

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30286167

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

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30286167

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30286167001	**Trip Blank**	EPA 8260B	336980		
30286167002	**CO27-PZM046**	EPA 8260B	336980		
30286167003	**CO27-PZM012**	EPA 8260B	336980		
30286167004	**CO40-PZM008**	EPA 8260B	336980		
30286167005	**CO42-PZM004**	EPA 8260B	336980		
30286167006	**CO02-PZM006**	EPA 8260B	336980		
30286167007	**CO93-PZMXXX**	EPA 8260B	336980		
30286167008	**CO18-PZM006**	EPA 8260B	336980		

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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:	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

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# : 30286167

30286167

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	Other	Analysis Test (Y/N)	VOC + NAPH by 8260	Resi	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			3/26/19	—		2				2						X		001
2	C027-PZM046	WT	G				955		3				3						X		002
3	C027-PZM012	WT	G				1030		3				3						X		003
4	C040-PZM008	WT	G				1105		3				3						X		004
5	C042-PZM004	WT	G				1140		3				3						X		005
6	C002-PZM006	WT	G				1345		3				3						X		006
7	C093-PZMXXX	WT	G				1440		3				3						X		007
8	C018-PZM006	WT	G				1530		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 pkg	[signature]	3/26/19	1600	David L Hillegonn / Pace	3/26/19	1617				
	David L Hillegonn / Pace	3/26/19	1955	RDS Pace	3-26-19	2000		Y		
	RDS Pace	3-26-19	2300	Ben Munton	3-26-19	2300	0.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perm

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 3/26/19

*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 4 026rev.00; 21 Feb 2007

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Enviroanalytics Project # 30286167

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label BLM
LIMS Login BLM

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 0.5 °C Correction Factor: 0 °C Final Temp: 0.5 °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: BLM 3-27-19
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: BLM / Date/time of preservation / Lot # of added preservative
Headspace in VOA Vials (>6mm):	✓			17. One TripBlank vial has headspace
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad 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

April 08, 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.: 30286371

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2019. 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.: 30286371

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.: 30286371

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30286371001	**Trip Blank**	Water	03/27/19 00:01	03/27/19 23:45
30286371002	**CO24-PZM007**	Water	03/27/19 09:30	03/27/19 23:45
30286371003	**CO23-PZM008**	Water	03/27/19 10:15	03/27/19 23:45
30286371004	**CO59-PZP002**	Water	03/27/19 10:55	03/27/19 23:45
30286371005	**CO57-PZP002**	Water	03/27/19 11:30	03/27/19 23:45
30286371006	**CO56-PZP001**	Water	03/27/19 12:30	03/27/19 23:45
30286371007	**CO55-PZM000**	Water	03/27/19 13:15	03/27/19 23:45
30286371008	**CO26-PZM007**	Water	03/27/19 13:55	03/27/19 23:45
30286371009	**CO58-PZM001**	Water	03/27/19 14:45	03/27/19 23:45
30286371010	**CO60-PZP001**	Water	03/27/19 15:35	03/27/19 23:45

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30286371

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30286371001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30286371002	**CO24-PZM007**	EPA 8260B	LEL	53	PASI-PA
30286371003	**CO23-PZM008**	EPA 8260B	LEL	53	PASI-PA
30286371004	**CO59-PZP002**	EPA 8260B	LEL	53	PASI-PA
30286371005	**CO57-PZP002**	EPA 8260B	LEL	53	PASI-PA
30286371006	**CO56-PZP001**	EPA 8260B	LEL	53	PASI-PA
30286371007	**CO55-PZM000**	EPA 8260B	LEL	53	PASI-PA
30286371008	**CO26-PZM007**	EPA 8260B	LEL	53	PASI-PA
30286371009	**CO58-PZM001**	EPA 8260B	LEL	53	PASI-PA
30286371010	**CO60-PZP001**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: Trip Blank **Lab ID: 30286371001** Collected: 03/27/19 00:01 Received: 03/27/19 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		04/05/19 17:27	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 17:27	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 17:27	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 17:27	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/05/19 17:27	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 17:27	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/05/19 17:27	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		04/05/19 17:27	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 17:27	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/05/19 17:27	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 17:27	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/05/19 17:27	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 17:27	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		04/05/19 17:27	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		04/05/19 17:27	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		04/05/19 17:27	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		04/05/19 17:27	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/05/19 17:27	107-13-1	
Benzene	**0.26J**	ug/L	1.0	0.24	1		04/05/19 17:27	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 17:27	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/05/19 17:27	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 17:27	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/05/19 17:27	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 17:27	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 17:27	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/05/19 17:27	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/05/19 17:27	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 17:27	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/05/19 17:27	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/05/19 17:27	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/05/19 17:27	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 17:27	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		04/05/19 17:27	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/05/19 17:27	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/05/19 17:27	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		04/05/19 17:27	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/05/19 17:27	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 17:27	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 17:27	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/05/19 17:27	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 17:27	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		04/05/19 17:27	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 17:27	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		04/05/19 17:27	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/05/19 17:27	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 17:27	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.: 30286371

Sample: Trip Blank **Lab ID: 30286371001** Collected: 03/27/19 00:01 Received: 03/27/19 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		04/05/19 17:27	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/05/19 17:27	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		04/05/19 17:27	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		04/05/19 17:27	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		1		04/05/19 17:27	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		04/05/19 17:27	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		04/05/19 17:27	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO24-PZM007 **Lab ID: 30286371002** Collected: 03/27/19 09:30 Received: 03/27/19 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		04/05/19 23:17	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 23:17	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 23:17	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 23:17	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/05/19 23:17	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 23:17	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/05/19 23:17	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/05/19 23:17	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 23:17	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/05/19 23:17	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 23:17	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/05/19 23:17	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 23:17	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/05/19 23:17	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/05/19 23:17	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/05/19 23:17	108-10-1	
Acetone	**11.2**	ug/L	10.0	2.8	1		04/05/19 23:17	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/05/19 23:17	107-13-1	
Benzene	**1.5**	ug/L	1.0	0.24	1		04/05/19 23:17	71-43-2	C8
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 23:17	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/05/19 23:17	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 23:17	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/05/19 23:17	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 23:17	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 23:17	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/05/19 23:17	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/05/19 23:17	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 23:17	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/05/19 23:17	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/05/19 23:17	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/05/19 23:17	74-95-3	
Ethylbenzene	**5.4**	ug/L	1.0	0.31	1		04/05/19 23:17	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/05/19 23:17	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/05/19 23:17	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/05/19 23:17	75-09-2	
Naphthalene	**2190**	ug/L	40.0	16.4	20		04/05/19 17:40	91-20-3	
Styrene	**0.56J**	ug/L	1.0	0.17	1		04/05/19 23:17	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 23:17	127-18-4	
Toluene	**1.3**	ug/L	1.0	0.30	1		04/05/19 23:17	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/05/19 23:17	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 23:17	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/05/19 23:17	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 23:17	75-01-4	
Xylene (Total)	**7.2**	ug/L	3.0	0.78	1		04/05/19 23:17	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/05/19 23:17	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 23:17	10061-01-5	

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.: 30286371

Sample: CO24-PZM007 **Lab ID: 30286371002** Collected: 03/27/19 09:30 Received: 03/27/19 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		04/05/19 23:17	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/05/19 23:17	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/05/19 23:17	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	78-122		1		04/05/19 23:17	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%.	80-120		1		04/05/19 23:17	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		04/05/19 23:17	2037-26-5	
Dibromofluoromethane (S)	106	%.	80-120		1		04/05/19 23:17	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO23-PZM008 **Lab ID: 30286371003** Collected: 03/27/19 10:15 Received: 03/27/19 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		04/06/19 00:57	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 00:57	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 00:57	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 00:57	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/06/19 00:57	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 00:57	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/06/19 00:57	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/06/19 00:57	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 00:57	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/06/19 00:57	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 00:57	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 00:57	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 00:57	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/06/19 00:57	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/06/19 00:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/06/19 00:57	108-10-1	
Acetone	**27.9J**	ug/L	50.0	14.2	5		04/06/19 00:57	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/06/19 00:57	107-13-1	
Benzene	**460**	ug/L	5.0	1.2	5		04/06/19 00:57	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 00:57	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 00:57	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 00:57	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/06/19 00:57	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 00:57	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 00:57	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/06/19 00:57	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/06/19 00:57	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/06/19 00:57	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/06/19 00:57	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 00:57	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 00:57	74-95-3	
Ethylbenzene	**22.5**	ug/L	5.0	1.6	5		04/06/19 00:57	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/06/19 00:57	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 00:57	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		04/06/19 00:57	75-09-2	
Naphthalene	**2760**	ug/L	200	82.0	100		04/05/19 19:20	91-20-3	
Styrene	**17.3**	ug/L	5.0	0.85	5		04/06/19 00:57	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 00:57	127-18-4	
Toluene	**197**	ug/L	5.0	1.5	5		04/06/19 00:57	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 00:57	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 00:57	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/06/19 00:57	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 00:57	75-01-4	
Xylene (Total)	**332**	ug/L	15.0	3.9	5		04/06/19 00:57	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/06/19 00:57	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 00:57	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO23-PZM008 **Lab ID: 30286371003** Collected: 03/27/19 10:15 Received: 03/27/19 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		04/06/19 00:57	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/06/19 00:57	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/06/19 00:57	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	78-122		5		04/06/19 00:57	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		5		04/06/19 00:57	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		04/06/19 00:57	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		5		04/06/19 00:57	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO59-PZP002 **Lab ID: 30286371004** Collected: 03/27/19 10:55 Received: 03/27/19 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		04/05/19 20:22	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 20:22	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 20:22	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 20:22	79-00-5	
1,1-Dichloroethane	**0.32J**	ug/L	1.0	0.19	1		04/05/19 20:22	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 20:22	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/05/19 20:22	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/05/19 20:22	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 20:22	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/05/19 20:22	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 20:22	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/05/19 20:22	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 20:22	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/05/19 20:22	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/05/19 20:22	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/05/19 20:22	108-10-1	
Acetone	**6.2J**	ug/L	10.0	2.8	1		04/05/19 20:22	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/05/19 20:22	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		04/05/19 20:22	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 20:22	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/05/19 20:22	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 20:22	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/05/19 20:22	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 20:22	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 20:22	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/05/19 20:22	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/05/19 20:22	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 20:22	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/05/19 20:22	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/05/19 20:22	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/05/19 20:22	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 20:22	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/05/19 20:22	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/05/19 20:22	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/05/19 20:22	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		04/05/19 20:22	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/05/19 20:22	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 20:22	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 20:22	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/05/19 20:22	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 20:22	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/05/19 20:22	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 20:22	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		04/05/19 20:22	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/05/19 20:22	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 20:22	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO59-PZP002 **Lab ID: 30286371004** Collected: 03/27/19 10:55 Received: 03/27/19 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		04/05/19 20:22	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/05/19 20:22	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/05/19 20:22	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	78-122		1		04/05/19 20:22	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		04/05/19 20:22	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		04/05/19 20:22	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		1		04/05/19 20:22	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO57-PZP002 **Lab ID: 30286371005** Collected: 03/27/19 11:30 Received: 03/27/19 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		04/05/19 20:47	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 20:47	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 20:47	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 20:47	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/05/19 20:47	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 20:47	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/05/19 20:47	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/05/19 20:47	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 20:47	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/05/19 20:47	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 20:47	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/05/19 20:47	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 20:47	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/05/19 20:47	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/05/19 20:47	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/05/19 20:47	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		04/05/19 20:47	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/05/19 20:47	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		04/05/19 20:47	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 20:47	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/05/19 20:47	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 20:47	75-25-2	
Bromomethane	**0.86J**	ug/L	1.0	0.49	1		04/05/19 20:47	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 20:47	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 20:47	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/05/19 20:47	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/05/19 20:47	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 20:47	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/05/19 20:47	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/05/19 20:47	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/05/19 20:47	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 20:47	100-41-4	
Iodomethane	**0.69J**	ug/L	50.0	0.67	1		04/05/19 20:47	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/05/19 20:47	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/05/19 20:47	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		04/05/19 20:47	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/05/19 20:47	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 20:47	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 20:47	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/05/19 20:47	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 20:47	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/05/19 20:47	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 20:47	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		04/05/19 20:47	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/05/19 20:47	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 20:47	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO57-PZP002 **Lab ID: 30286371005** Collected: 03/27/19 11:30 Received: 03/27/19 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		04/05/19 20:47	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/05/19 20:47	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/05/19 20:47	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		1		04/05/19 20:47	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		04/05/19 20:47	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		04/05/19 20:47	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		1		04/05/19 20:47	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO56-PZP001 **Lab ID: 30286371006** Collected: 03/27/19 12:30 Received: 03/27/19 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		04/06/19 01:22	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 01:22	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 01:22	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 01:22	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/06/19 01:22	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 01:22	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/06/19 01:22	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/06/19 01:22	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 01:22	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/06/19 01:22	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 01:22	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 01:22	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 01:22	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/06/19 01:22	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/06/19 01:22	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/06/19 01:22	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		04/06/19 01:22	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/06/19 01:22	107-13-1	
Benzene	**246**	ug/L	5.0	1.2	5		04/06/19 01:22	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 01:22	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 01:22	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 01:22	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/06/19 01:22	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 01:22	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 01:22	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/06/19 01:22	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/06/19 01:22	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/06/19 01:22	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/06/19 01:22	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 01:22	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 01:22	74-95-3	
Ethylbenzene	**9.4**	ug/L	5.0	1.6	5		04/06/19 01:22	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/06/19 01:22	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 01:22	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		04/06/19 01:22	75-09-2	
Naphthalene	**2400**	ug/L	200	82.0	100		04/05/19 19:45	91-20-3	
Styrene	**52.2**	ug/L	5.0	0.85	5		04/06/19 01:22	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 01:22	127-18-4	
Toluene	**117**	ug/L	5.0	1.5	5		04/06/19 01:22	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 01:22	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 01:22	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/06/19 01:22	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 01:22	75-01-4	
Xylene (Total)	**200**	ug/L	15.0	3.9	5		04/06/19 01:22	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/06/19 01:22	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 01:22	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO56-PZP001 **Lab ID: 30286371006** Collected: 03/27/19 12:30 Received: 03/27/19 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		04/06/19 01:22	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/06/19 01:22	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/06/19 01:22	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		04/06/19 01:22	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%.	80-120		5		04/06/19 01:22	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		04/06/19 01:22	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120		5		04/06/19 01:22	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO55-PZM000 **Lab ID: 30286371007** Collected: 03/27/19 13:15 Received: 03/27/19 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		04/05/19 19:32	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 19:32	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 19:32	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 19:32	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/05/19 19:32	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 19:32	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/05/19 19:32	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/05/19 19:32	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 19:32	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/05/19 19:32	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 19:32	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/05/19 19:32	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 19:32	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/05/19 19:32	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/05/19 19:32	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/05/19 19:32	108-10-1	
Acetone	**8.7J**	ug/L	10.0	2.8	1		04/05/19 19:32	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/05/19 19:32	107-13-1	
Benzene	**6.0**	ug/L	1.0	0.24	1		04/05/19 19:32	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 19:32	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/05/19 19:32	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 19:32	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/05/19 19:32	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 19:32	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 19:32	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/05/19 19:32	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/05/19 19:32	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 19:32	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/05/19 19:32	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/05/19 19:32	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/05/19 19:32	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 19:32	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/05/19 19:32	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/05/19 19:32	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/05/19 19:32	75-09-2	
Naphthalene	**8.9**	ug/L	2.0	0.82	1		04/05/19 19:32	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/05/19 19:32	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 19:32	127-18-4	
Toluene	**0.82J**	ug/L	1.0	0.30	1		04/05/19 19:32	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/05/19 19:32	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 19:32	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/05/19 19:32	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 19:32	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		04/05/19 19:32	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/05/19 19:32	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 19:32	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO55-PZM000 **Lab ID: 30286371007** Collected: 03/27/19 13:15 Received: 03/27/19 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		04/05/19 19:32	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/05/19 19:32	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/05/19 19:32	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	78-122		1		04/05/19 19:32	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		1		04/05/19 19:32	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		04/05/19 19:32	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		1		04/05/19 19:32	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO26-PZM007 **Lab ID: 30286371008** Collected: 03/27/19 13:55 Received: 03/27/19 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		04/05/19 23:42	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 23:42	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 23:42	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 23:42	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/05/19 23:42	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 23:42	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/05/19 23:42	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/05/19 23:42	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 23:42	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/05/19 23:42	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 23:42	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/05/19 23:42	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 23:42	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/05/19 23:42	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/05/19 23:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/05/19 23:42	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		04/05/19 23:42	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/05/19 23:42	107-13-1	
Benzene	**98.2**	ug/L	1.0	0.24	1		04/05/19 23:42	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 23:42	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/05/19 23:42	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 23:42	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/05/19 23:42	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 23:42	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 23:42	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/05/19 23:42	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/05/19 23:42	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 23:42	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/05/19 23:42	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/05/19 23:42	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/05/19 23:42	74-95-3	
Ethylbenzene	**4.2**	ug/L	1.0	0.31	1		04/05/19 23:42	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/05/19 23:42	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/05/19 23:42	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/05/19 23:42	75-09-2	
Naphthalene	**961**	ug/L	40.0	16.4	20		04/05/19 18:05	91-20-3	
Styrene	**18.6**	ug/L	1.0	0.17	1		04/05/19 23:42	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 23:42	127-18-4	
Toluene	**51.4**	ug/L	1.0	0.30	1		04/05/19 23:42	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/05/19 23:42	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 23:42	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/05/19 23:42	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 23:42	75-01-4	
Xylene (Total)	**84.5**	ug/L	3.0	0.78	1		04/05/19 23:42	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/05/19 23:42	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 23:42	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO26-PZM007 **Lab ID: 30286371008** Collected: 03/27/19 13:55 Received: 03/27/19 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		04/05/19 23:42	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/05/19 23:42	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/05/19 23:42	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		04/05/19 23:42	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		1		04/05/19 23:42	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		04/05/19 23:42	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		04/05/19 23:42	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO58-PZM001 **Lab ID: 30286371009** Collected: 03/27/19 14:45 Received: 03/27/19 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		04/06/19 00:07	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 00:07	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 00:07	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 00:07	79-00-5	
1,1-Dichloroethane	**0.40J**	ug/L	1.0	0.19	1		04/06/19 00:07	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 00:07	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/06/19 00:07	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/06/19 00:07	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 00:07	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/06/19 00:07	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 00:07	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/06/19 00:07	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 00:07	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/06/19 00:07	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/06/19 00:07	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/06/19 00:07	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		04/06/19 00:07	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/06/19 00:07	107-13-1	
Benzene	**114**	ug/L	1.0	0.24	1		04/06/19 00:07	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 00:07	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/06/19 00:07	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 00:07	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/06/19 00:07	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 00:07	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 00:07	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/06/19 00:07	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/06/19 00:07	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/06/19 00:07	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/06/19 00:07	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/06/19 00:07	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/06/19 00:07	74-95-3	
Ethylbenzene	**5.2**	ug/L	1.0	0.31	1		04/06/19 00:07	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/06/19 00:07	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/06/19 00:07	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/06/19 00:07	75-09-2	
Naphthalene	**701**	ug/L	40.0	16.4	20		04/05/19 18:30	91-20-3	
Styrene	**8.1**	ug/L	1.0	0.17	1		04/06/19 00:07	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 00:07	127-18-4	
Toluene	**30.3**	ug/L	1.0	0.30	1		04/06/19 00:07	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/06/19 00:07	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 00:07	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/06/19 00:07	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 00:07	75-01-4	
Xylene (Total)	**76.6**	ug/L	3.0	0.78	1		04/06/19 00:07	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/06/19 00:07	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 00:07	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO58-PZM001 **Lab ID: 30286371009** Collected: 03/27/19 14:45 Received: 03/27/19 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		04/06/19 00:07	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/06/19 00:07	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/06/19 00:07	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%.	78-122		1		04/06/19 00:07	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		1		04/06/19 00:07	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		04/06/19 00:07	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		1		04/06/19 00:07	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO60-PZP001 **Lab ID: 30286371010** Collected: 03/27/19 15:35 Received: 03/27/19 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		04/06/19 00:32	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 00:32	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 00:32	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 00:32	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/06/19 00:32	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 00:32	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/06/19 00:32	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/06/19 00:32	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 00:32	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/06/19 00:32	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 00:32	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/06/19 00:32	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 00:32	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/06/19 00:32	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/06/19 00:32	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/06/19 00:32	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		04/06/19 00:32	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/06/19 00:32	107-13-1	
Benzene	**197**	ug/L	1.0	0.24	1		04/06/19 00:32	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 00:32	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/06/19 00:32	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 00:32	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/06/19 00:32	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 00:32	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 00:32	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/06/19 00:32	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/06/19 00:32	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/06/19 00:32	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/06/19 00:32	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/06/19 00:32	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/06/19 00:32	74-95-3	
Ethylbenzene	**6.5**	ug/L	1.0	0.31	1		04/06/19 00:32	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/06/19 00:32	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/06/19 00:32	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/06/19 00:32	75-09-2	
Naphthalene	**1540**	ug/L	40.0	16.4	20		04/05/19 18:55	91-20-3	
Styrene	**34.6**	ug/L	1.0	0.17	1		04/06/19 00:32	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 00:32	127-18-4	
Toluene	**53.8**	ug/L	1.0	0.30	1		04/06/19 00:32	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/06/19 00:32	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 00:32	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/06/19 00:32	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 00:32	75-01-4	
Xylene (Total)	**148**	ug/L	3.0	0.78	1		04/06/19 00:32	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/06/19 00:32	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 00:32	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286371

Sample: CO60-PZP001 **Lab ID: 30286371010** Collected: 03/27/19 15:35 Received: 03/27/19 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		04/06/19 00:32	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/06/19 00:32	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/06/19 00:32	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		04/06/19 00:32	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		1		04/06/19 00:32	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		04/06/19 00:32	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120		1		04/06/19 00:32	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30286371

QC Batch: 337153 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30286371001, 30286371002, 30286371003, 30286371004, 30286371005, 30286371006, 30286371007, 30286371008, 30286371009, 30286371010

METHOD BLANK: 1641032 Matrix: Water
Associated Lab Samples: 30286371001, 30286371002, 30286371003, 30286371004, 30286371005, 30286371006, 30286371007, 30286371008, 30286371009, 30286371010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	04/05/19 17:02	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	04/05/19 17:02	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	04/05/19 17:02	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	04/05/19 17:02	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	04/05/19 17:02	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	04/05/19 17:02	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	04/05/19 17:02	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	04/05/19 17:02	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	04/05/19 17:02	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	04/05/19 17:02	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	04/05/19 17:02	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	04/05/19 17:02	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	04/05/19 17:02	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	04/05/19 17:02	
2-Hexanone	ug/L	10.0 U	10.0	0.66	04/05/19 17:02	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	04/05/19 17:02	
Acetone	ug/L	10.0 U	10.0	2.8	04/05/19 17:02	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	04/05/19 17:02	
Benzene	ug/L	1.0 U	1.0	0.24	04/05/19 17:02	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	04/05/19 17:02	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	04/05/19 17:02	
Bromoform	ug/L	1.0 U	1.0	0.32	04/05/19 17:02	
Bromomethane	ug/L	1.0 U	1.0	0.49	04/05/19 17:02	CL
Carbon disulfide	ug/L	1.0 U	1.0	0.32	04/05/19 17:02	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	04/05/19 17:02	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	04/05/19 17:02	
Chloroethane	ug/L	1.0 U	1.0	0.55	04/05/19 17:02	
Chloroform	ug/L	1.0 U	1.0	0.30	04/05/19 17:02	
Chloromethane	ug/L	1.0 U	1.0	0.68	04/05/19 17:02	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	04/05/19 17:02	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	04/05/19 17:02	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	04/05/19 17:02	
Dibromomethane	ug/L	1.0 U	1.0	0.40	04/05/19 17:02	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	04/05/19 17:02	
Iodomethane	ug/L	50.0 U	50.0	0.67	04/05/19 17:02	CL
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	04/05/19 17:02	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	04/05/19 17:02	
Naphthalene	ug/L	2.0 U	2.0	0.82	04/05/19 17:02	
Styrene	ug/L	1.0 U	1.0	0.17	04/05/19 17:02	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	04/05/19 17:02	

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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.: 30286371

METHOD BLANK: 1641032 Matrix: Water

Associated Lab Samples: 30286371001, 30286371002, 30286371003, 30286371004, 30286371005, 30286371006, 30286371007, 30286371008, 30286371009, 30286371010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.30	04/05/19 17:02	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	04/05/19 17:02	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	04/05/19 17:02	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	04/05/19 17:02	
Trichloroethene	ug/L	1.0 U	1.0	0.39	04/05/19 17:02	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	04/05/19 17:02	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	04/05/19 17:02	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	04/05/19 17:02	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	04/05/19 17:02	
1,2-Dichloroethane-d4 (S)	%.	104	80-120		04/05/19 17:02	
4-Bromofluorobenzene (S)	%.	96	78-122		04/05/19 17:02	
Dibromofluoromethane (S)	%.	105	80-120		04/05/19 17:02	
Toluene-d8 (S)	%.	97	80-120		04/05/19 17:02	

LABORATORY CONTROL SAMPLE: 1641033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	16.8	84	70-130	
1,1,1-Trichloroethane	ug/L	20	18.3	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.1	90	70-130	
1,1,2-Trichloroethane	ug/L	20	18.4	92	70-130	
1,1-Dichloroethane	ug/L	20	17.4	87	68-121	
1,1-Dichloroethene	ug/L	20	17.3	87	63-129	
1,2,3-Trichloropropane	ug/L	20	18.7	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.8	89	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	18.4	92	70-130	
1,2-Dichlorobenzene	ug/L	20	17.8	89	70-130	
1,2-Dichloroethane	ug/L	20	17.7	88	67-117	
1,2-Dichloropropane	ug/L	20	17.3	87	69-121	
1,4-Dichlorobenzene	ug/L	20	17.5	87	70-130	
2-Butanone (MEK)	ug/L	20	17.9	90	59-128	
2-Hexanone	ug/L	20	19.9	99	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.7	93	63-126	
Acetone	ug/L	20	20.4	102	37-150	
Acrylonitrile	ug/L	20	16.1	80	62-128	
Benzene	ug/L	20	18.0	90	70-130	
Bromochloromethane	ug/L	20	18.8	94	59-137	
Bromodichloromethane	ug/L	20	17.6	88	70-130	
Bromoform	ug/L	20	16.5	83	65-130	
Bromomethane	ug/L	20	11.4	57	45-148	CL
Carbon disulfide	ug/L	20	17.6	88	55-123	
Carbon tetrachloride	ug/L	20	16.9	85	69-126	
Chlorobenzene	ug/L	20	18.0	90	70-130	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30286371

LABORATORY CONTROL SAMPLE: 1641033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	21.0	105	68-146	
Chloroform	ug/L	20	17.0	85	69-116	
Chloromethane	ug/L	20	16.8	84	56-129	
cis-1,2-Dichloroethene	ug/L	20	16.4	82	66-118	
cis-1,3-Dichloropropene	ug/L	20	17.0	85	70-130	
Dibromochloromethane	ug/L	20	18.4	92	70-130	
Dibromomethane	ug/L	20	16.8	84	70-130	
Ethylbenzene	ug/L	20	17.6	88	70-130	
Iodomethane	ug/L	20	11.8J	59	10-175	CL
Methyl-tert-butyl ether	ug/L	20	18.3	92	70-130	
Methylene Chloride	ug/L	20	17.7	89	65-124	
Naphthalene	ug/L	20	18.8	94	69-135	
Styrene	ug/L	20	18.1	90	70-130	
Tetrachloroethene	ug/L	20	18.0	90	70-130	
Toluene	ug/L	20	18.1	90	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.5	87	64-123	
trans-1,3-Dichloropropene	ug/L	20	17.6	88	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	16.9	84	37-119	
Trichloroethene	ug/L	20	18.4	92	70-130	
Trichlorofluoromethane	ug/L	20	22.8	114	64-163	
Vinyl acetate	ug/L	20	19.1	95	45-129	
Vinyl chloride	ug/L	20	21.5	107	70-130	
Xylene (Total)	ug/L	60	54.3	90	70-130	
1,2-Dichloroethane-d4 (S)	%.			100	80-120	
4-Bromofluorobenzene (S)	%.			98	78-122	
Dibromofluoromethane (S)	%.			99	80-120	
Toluene-d8 (S)	%.			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1641034 1641035

Parameter	Units	30286640005 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	14.2	15.7	71	78	52-123	10	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.5	18.1	82	90	67-127	9	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	15.3	16.9	77	84	55-118	10	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	15.7	17.0	79	85	60-117	8	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	15.8	17.2	79	86	68-118	9	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	16.3	17.4	81	87	62-126	6	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	16.4	17.7	82	88	56-129	7	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	14.9	17.0	74	85	46-130	13	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	15.6	17.5	78	87	69-124	11	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	16.1	16.7	81	83	66-116	3	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	14.9	16.5	74	83	67-117	11	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	15.1	16.5	75	83	61-128	9	30	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30286371

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1641034 1641035

Parameter	Units	30286640005 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	15.7	16.4	79	82	68-116	4	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	15.3	20.9	77	105	63-175	31	30	R1
2-Hexanone	ug/L	10.0 U	20	20	17.7	22.9	89	114	65-151	25	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	16.9	21.9	84	109	66-149	26	30	
Acetone	ug/L	4.9J	20	20	18.1	22.0	66	85	10-175	19	30	
Acrylonitrile	ug/L	4.0 U	20	20	14.2	17.7	71	89	42-165	22	30	
Benzene	ug/L	1.9	20	20	17.8	19.2	80	86	67-119	7	30	
Bromochloromethane	ug/L	1.0 U	20	20	16.3	17.7	81	89	64-124	9	30	
Bromodichloromethane	ug/L	1.0 U	20	20	15.2	16.5	76	83	67-126	8	30	
Bromoform	ug/L	1.0 U	20	20	13.1	15.1	66	76	43-114	14	30	
Bromomethane	ug/L	1.0 U	20	20	19.0	21.1	95	105	10-164	10	30	CL
Carbon disulfide	ug/L	1.0 U	20	20	16.8	18.8	84	94	37-135	11	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	15.7	17.3	79	86	60-137	9	30	
Chlorobenzene	ug/L	1.0 U	20	20	16.1	17.5	80	87	68-119	9	30	
Chloroethane	ug/L	1.0 U	20	20	20.3	21.9	101	109	54-169	8	30	
Chloroform	ug/L	1.0 U	20	20	15.2	16.5	76	82	69-113	8	30	
Chloromethane	ug/L	1.0 U	20	20	16.5	18.2	83	91	43-159	9	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	14.1	16.3	71	81	65-121	14	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.7	16.4	73	82	61-120	11	30	
Dibromochloromethane	ug/L	1.0 U	20	20	15.4	16.9	77	85	56-121	10	30	
Dibromomethane	ug/L	1.0 U	20	20	14.7	16.7	73	83	56-133	13	30	
Ethylbenzene	ug/L	1.0 U	20	20	15.8	17.2	79	86	69-127	8	30	
Iodomethane	ug/L	50.0 U	20	20	9.0J	10.6J	45	53	10-152		30	CL
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	16.4	18.8	82	94	70-130	14	30	
Methylene Chloride	ug/L	1.0 U	20	20	14.5	17.5	72	87	49-144	19	30	
Naphthalene	ug/L	1.9J	20	20	14.8	17.3	64	77	60-136	16	30	
Styrene	ug/L	1.0 U	20	20	15.7	16.7	78	84	65-120	6	30	
Tetrachloroethene	ug/L	1.0 U	20	20	17.2	18.0	86	90	64-123	5	30	
Toluene	ug/L	1.0 U	20	20	16.4	17.8	81	88	70-130	9	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	15.9	17.0	80	85	66-119	7	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.0	16.5	75	82	52-117	10	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	14.6	18.2	73	91	13-100	22	30	
Trichloroethene	ug/L	1.0 U	20	20	16.7	18.0	83	90	63-125	7	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	21.2	22.9	106	114	43-186	7	30	
Vinyl acetate	ug/L	10.0 U	20	20	16.2	18.6	81	93	35-150	14	30	
Vinyl chloride	ug/L	1.0 U	20	20	19.9	22.4	100	112	60-133	12	30	
Xylene (Total)	ug/L	3.0 U	60	60	48.0	51.9	80	86	69-128	8	30	
1,2-Dichloroethane-d4 (S)	%.						99	101	80-120			
4-Bromofluorobenzene (S)	%.						97	93	78-122			
Dibromofluoromethane (S)	%.						100	104	80-120			
Toluene-d8 (S)	%.						98	98	80-120			

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30286371

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.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results 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
Pace Project No.: 30286371

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30286371001	**Trip Blank**	EPA 8260B	337153		
30286371002	**CO24-PZM007**	EPA 8260B	337153		
30286371003	**CO23-PZM008**	EPA 8260B	337153		
30286371004	**CO59-PZP002**	EPA 8260B	337153		
30286371005	**CO57-PZP002**	EPA 8260B	337153		
30286371006	**CO56-PZP001**	EPA 8260B	337153		
30286371007	**CO55-PZM000**	EPA 8260B	337153		
30286371008	**CO26-PZM007**	EPA 8260B	337153		
30286371009	**CO58-PZM001**	EPA 8260B	337153		
30286371010	**CO60-PZP001**	EPA 8260B	337153		

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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

Requested Analysis Filtered (Y/N)

WO# : 30286371

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	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			3/22/19	—		2				2					X			001
2	C024-PZM007	WT	G				930		3				3					X			002
3	C023-PZM008	WT	G				1015		3				3					X			003
4	C059-PZP002	WT	G				1055		3				3					X			004
5	C057-PZP002	WT	G				1130		3				3					X			005
6	C058-PZP001	WT	G				1230		3				3					X			006
7	C055-PZM000	WT	G				1315		3				3					X			007
8	C026-PZM007	WT	G				1355		3				3					X			008
9	C059-PZM001	WT	G				1445		3				3					X			009
10	C060-PZP001	WT	G				1535		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 coolers pkg	Lisa Perrin	3/27/19	1600	David Hillegas/Pace	3/27/19	1600		Y	N	Y
	David Hillegas/Pace	3/27/19	2000	RDS TACE	3/27-19	2020		Y		
	RDS TACE	3-27-19	2345	Ben Meadows	3-27-19	2345	0.5	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lisa Perrin
SIGNATURE of SAMPLER: Lisa Perrin
DATE Signed (MM/DD/YY): 3/27/19

*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# 30286371

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label BLM
LIMS Login BLM

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 0.5 °C Correction Factor: 0 °C Final Temp: 0.5 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: BLM 3-28-19

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.			✓	16.
All containers needing preservation are found to be in compliance with EPA recommendation.			✓	
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed BLM / Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad 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

April 08, 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.: 30286640

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on March 28, 2019. 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.: 30286640

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.: 30286640

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30286640001	**Trip Blank**	Water	03/28/19 00:01	03/28/19 22:50
30286640002	**CO102-PZMXXX**	Water	03/28/19 09:55	03/28/19 22:50
30286640003	**CO103-PZMXXX**	Water	03/28/19 10:42	03/28/19 22:50
30286640004	**CO101-PZMXXX**	Water	03/28/19 11:50	03/28/19 22:50
30286640005	**CO104-PZMXXX**	Water	03/28/19 12:20	03/28/19 22:50
30286640006	**CO30-PZM015**	Water	03/28/19 14:10	03/28/19 22:50
30286640007	**CO30-PZM060**	Water	03/28/19 14:50	03/28/19 22:50

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30286640

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30286640001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30286640002	**CO102-PZMXXX**	EPA 8260B	LEL	53	PASI-PA
30286640003	**CO103-PZMXXX**	EPA 8260B	LEL	53	PASI-PA
30286640004	**CO101-PZMXXX**	EPA 8260B	LEL	53	PASI-PA
30286640005	**CO104-PZMXXX**	EPA 8260B	LEL	53	PASI-PA
30286640006	**CO30-PZM015**	EPA 8260B	LEL	53	PASI-PA
30286640007	**CO30-PZM060**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286640

Sample: Trip Blank **Lab ID: 30286640001** Collected: 03/28/19 00:01 Received: 03/28/19 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		04/05/19 17:52	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 17:52	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 17:52	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 17:52	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/05/19 17:52	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 17:52	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/05/19 17:52	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		04/05/19 17:52	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 17:52	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/05/19 17:52	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 17:52	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/05/19 17:52	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 17:52	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		04/05/19 17:52	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		04/05/19 17:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		04/05/19 17:52	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		04/05/19 17:52	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/05/19 17:52	107-13-1	
Benzene	**0.31J**	ug/L	1.0	0.24	1		04/05/19 17:52	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 17:52	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/05/19 17:52	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 17:52	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/05/19 17:52	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 17:52	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 17:52	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/05/19 17:52	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/05/19 17:52	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 17:52	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/05/19 17:52	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/05/19 17:52	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/05/19 17:52	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 17:52	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		04/05/19 17:52	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/05/19 17:52	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/05/19 17:52	75-09-2	
Naphthalene	**2.4**	ug/L	2.0	0.82	1		04/05/19 17:52	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/05/19 17:52	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 17:52	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 17:52	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/05/19 17:52	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 17:52	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		04/05/19 17:52	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 17:52	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		04/05/19 17:52	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/05/19 17:52	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 17:52	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.: 30286640

Sample: Trip Blank **Lab ID: 30286640001** Collected: 03/28/19 00:01 Received: 03/28/19 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		04/05/19 17:52	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/05/19 17:52	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		04/05/19 17:52	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		04/05/19 17:52	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		04/05/19 17:52	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		04/05/19 17:52	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		1		04/05/19 17:52	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286640

Sample: CO102-PZMXXX **Lab ID: 30286640002** Collected: 03/28/19 09:55 Received: 03/28/19 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		04/06/19 01:47	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 01:47	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 01:47	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 01:47	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/06/19 01:47	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 01:47	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/06/19 01:47	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/06/19 01:47	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 01:47	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/06/19 01:47	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 01:47	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 01:47	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 01:47	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/06/19 01:47	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/06/19 01:47	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/06/19 01:47	108-10-1	
Acetone	**39.8J**	ug/L	50.0	14.2	5		04/06/19 01:47	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/06/19 01:47	107-13-1	
Benzene	**9730**	ug/L	100	24.0	100		04/05/19 20:10	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 01:47	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 01:47	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 01:47	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/06/19 01:47	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 01:47	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 01:47	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/06/19 01:47	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/06/19 01:47	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/06/19 01:47	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/06/19 01:47	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 01:47	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 01:47	74-95-3	
Ethylbenzene	**17.4**	ug/L	5.0	1.6	5		04/06/19 01:47	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/06/19 01:47	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 01:47	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		04/06/19 01:47	75-09-2	
Naphthalene	**888**	ug/L	10.0	4.1	5		04/06/19 01:47	91-20-3	
Styrene	**5.6**	ug/L	5.0	0.85	5		04/06/19 01:47	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 01:47	127-18-4	
Toluene	**716**	ug/L	5.0	1.5	5		04/06/19 01:47	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 01:47	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 01:47	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/06/19 01:47	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 01:47	75-01-4	
Xylene (Total)	**202**	ug/L	15.0	3.9	5		04/06/19 01:47	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/06/19 01:47	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 01:47	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286640

Sample: CO102-PZMXXX **Lab ID: 30286640002** Collected: 03/28/19 09:55 Received: 03/28/19 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		04/06/19 01:47	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/06/19 01:47	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/06/19 01:47	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		5		04/06/19 01:47	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		5		04/06/19 01:47	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		04/06/19 01:47	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		5		04/06/19 01:47	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.: 30286640

Sample: CO103-PZMXXX **Lab ID: 30286640003** Collected: 03/28/19 10:42 Received: 03/28/19 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		04/05/19 22:52	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/05/19 22:52	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/05/19 22:52	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/05/19 22:52	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/05/19 22:52	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 22:52	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/05/19 22:52	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/05/19 22:52	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/05/19 22:52	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/05/19 22:52	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/05/19 22:52	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/05/19 22:52	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/05/19 22:52	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/05/19 22:52	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/05/19 22:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/05/19 22:52	108-10-1	
Acetone	**60.4**	ug/L	50.0	14.2	5		04/05/19 22:52	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/05/19 22:52	107-13-1	
Benzene	**995**	ug/L	5.0	1.2	5		04/05/19 22:52	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/05/19 22:52	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/05/19 22:52	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 22:52	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/05/19 22:52	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 22:52	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/05/19 22:52	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/05/19 22:52	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/05/19 22:52	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/05/19 22:52	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/05/19 22:52	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/05/19 22:52	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/05/19 22:52	74-95-3	
Ethylbenzene	**2.5J**	ug/L	5.0	1.6	5		04/05/19 22:52	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/05/19 22:52	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/05/19 22:52	1634-04-4	
Methylene Chloride	**5.0J**	ug/L	5.0	3.8	5		04/05/19 22:52	75-09-2	
Naphthalene	**70.5**	ug/L	10.0	4.1	5		04/05/19 22:52	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	0.85	5		04/05/19 22:52	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 22:52	127-18-4	
Toluene	**53.6**	ug/L	5.0	1.5	5		04/05/19 22:52	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/05/19 22:52	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/05/19 22:52	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/05/19 22:52	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/05/19 22:52	75-01-4	
Xylene (Total)	**31.1**	ug/L	15.0	3.9	5		04/05/19 22:52	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/05/19 22:52	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/05/19 22:52	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286640

Sample: CO103-PZMXXX **Lab ID: 30286640003** Collected: 03/28/19 10:42 Received: 03/28/19 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		04/05/19 22:52	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/05/19 22:52	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/05/19 22:52	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		04/05/19 22:52	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		5		04/05/19 22:52	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		04/05/19 22:52	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		5		04/05/19 22:52	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286640

Sample: CO101-PZMXXX **Lab ID: 30286640004** Collected: 03/28/19 11:50 Received: 03/28/19 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		04/05/19 19:57	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 19:57	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 19:57	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 19:57	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/05/19 19:57	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 19:57	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/05/19 19:57	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/05/19 19:57	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 19:57	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/05/19 19:57	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 19:57	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/05/19 19:57	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 19:57	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/05/19 19:57	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/05/19 19:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/05/19 19:57	108-10-1	
Acetone	**12.8**	ug/L	10.0	2.8	1		04/05/19 19:57	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/05/19 19:57	107-13-1	
Benzene	**9.6**	ug/L	1.0	0.24	1		04/05/19 19:57	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 19:57	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/05/19 19:57	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 19:57	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/05/19 19:57	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 19:57	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 19:57	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/05/19 19:57	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/05/19 19:57	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 19:57	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/05/19 19:57	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/05/19 19:57	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/05/19 19:57	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 19:57	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/05/19 19:57	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/05/19 19:57	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/05/19 19:57	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		04/05/19 19:57	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/05/19 19:57	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 19:57	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 19:57	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/05/19 19:57	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 19:57	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/05/19 19:57	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 19:57	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		04/05/19 19:57	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/05/19 19:57	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 19:57	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286640

Sample: CO101-PZMXXX **Lab ID: 30286640004** Collected: 03/28/19 11:50 Received: 03/28/19 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		04/05/19 19:57	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/05/19 19:57	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/05/19 19:57	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		04/05/19 19:57	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		04/05/19 19:57	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		04/05/19 19:57	2037-26-5	
Dibromofluoromethane (S)	104	%.	80-120		1		04/05/19 19:57	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286640

Sample: CO104-PZMXXX **Lab ID: 30286640005** Collected: 03/28/19 12:20 Received: 03/28/19 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		04/05/19 18:17	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 18:17	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 18:17	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 18:17	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/05/19 18:17	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 18:17	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/05/19 18:17	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/05/19 18:17	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 18:17	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/05/19 18:17	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 18:17	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/05/19 18:17	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 18:17	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/05/19 18:17	78-93-3	R1
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/05/19 18:17	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/05/19 18:17	108-10-1	
Acetone	**4.9J**	ug/L	10.0	2.8	1		04/05/19 18:17	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/05/19 18:17	107-13-1	
Benzene	**1.9**	ug/L	1.0	0.24	1		04/05/19 18:17	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 18:17	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/05/19 18:17	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 18:17	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/05/19 18:17	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 18:17	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 18:17	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/05/19 18:17	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/05/19 18:17	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 18:17	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/05/19 18:17	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/05/19 18:17	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/05/19 18:17	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 18:17	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/05/19 18:17	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/05/19 18:17	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/05/19 18:17	75-09-2	
Naphthalene	**1.9J**	ug/L	2.0	0.82	1		04/05/19 18:17	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/05/19 18:17	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 18:17	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 18:17	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/05/19 18:17	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 18:17	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/05/19 18:17	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 18:17	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		04/05/19 18:17	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/05/19 18:17	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 18:17	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286640

Sample: CO104-PZMXXX **Lab ID: 30286640005** Collected: 03/28/19 12:20 Received: 03/28/19 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		04/05/19 18:17	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/05/19 18:17	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/05/19 18:17	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		04/05/19 18:17	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		1		04/05/19 18:17	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		04/05/19 18:17	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		1		04/05/19 18:17	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286640

Sample: CO30-PZM015 **Lab ID: 30286640006** Collected: 03/28/19 14:10 Received: 03/28/19 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		04/06/19 02:12	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 02:12	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 02:12	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 02:12	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/06/19 02:12	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 02:12	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/06/19 02:12	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/06/19 02:12	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 02:12	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/06/19 02:12	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 02:12	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 02:12	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 02:12	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/06/19 02:12	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/06/19 02:12	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/06/19 02:12	108-10-1	
Acetone	**23.9J**	ug/L	50.0	14.2	5		04/06/19 02:12	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/06/19 02:12	107-13-1	
Benzene	**51000**	ug/L	500	120	500		04/05/19 20:35	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 02:12	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 02:12	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 02:12	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/06/19 02:12	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 02:12	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 02:12	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/06/19 02:12	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/06/19 02:12	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/06/19 02:12	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/06/19 02:12	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 02:12	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 02:12	74-95-3	
Ethylbenzene	**87.3**	ug/L	5.0	1.6	5		04/06/19 02:12	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/06/19 02:12	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 02:12	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		04/06/19 02:12	75-09-2	
Naphthalene	**2710**	ug/L	1000	410	500		04/05/19 20:35	91-20-3	
Styrene	**13.9**	ug/L	5.0	0.85	5		04/06/19 02:12	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 02:12	127-18-4	
Toluene	**3890**	ug/L	500	150	500		04/05/19 20:35	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 02:12	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 02:12	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/06/19 02:12	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 02:12	75-01-4	
Xylene (Total)	**1190**	ug/L	15.0	3.9	5		04/06/19 02:12	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/06/19 02:12	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 02:12	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286640

Sample: CO30-PZM015 **Lab ID: 30286640006** Collected: 03/28/19 14:10 Received: 03/28/19 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		04/06/19 02:12	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/06/19 02:12	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/06/19 02:12	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		04/06/19 02:12	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		5		04/06/19 02:12	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		04/06/19 02:12	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		5		04/06/19 02:12	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286640

Sample: CO30-PZM060 **Lab ID: 30286640007** Collected: 03/28/19 14:50 Received: 03/28/19 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		04/05/19 21:12	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 21:12	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 21:12	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 21:12	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/05/19 21:12	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 21:12	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/05/19 21:12	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/05/19 21:12	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 21:12	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/05/19 21:12	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 21:12	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/05/19 21:12	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 21:12	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/05/19 21:12	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/05/19 21:12	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/05/19 21:12	108-10-1	
Acetone	**4.7J**	ug/L	10.0	2.8	1		04/05/19 21:12	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/05/19 21:12	107-13-1	
Benzene	**4.2**	ug/L	1.0	0.24	1		04/05/19 21:12	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 21:12	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/05/19 21:12	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 21:12	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/05/19 21:12	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 21:12	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 21:12	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/05/19 21:12	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/05/19 21:12	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 21:12	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/05/19 21:12	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/05/19 21:12	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/05/19 21:12	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 21:12	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/05/19 21:12	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/05/19 21:12	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/05/19 21:12	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		04/05/19 21:12	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/05/19 21:12	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 21:12	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 21:12	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/05/19 21:12	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 21:12	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/05/19 21:12	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 21:12	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		04/05/19 21:12	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/05/19 21:12	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 21:12	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286640

Sample: CO30-PZM060 **Lab ID: 30286640007** Collected: 03/28/19 14:50 Received: 03/28/19 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		04/05/19 21:12	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/05/19 21:12	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/05/19 21:12	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	78-122		1		04/05/19 21:12	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		1		04/05/19 21:12	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		04/05/19 21:12	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		1		04/05/19 21:12	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30286640

QC Batch: 337153 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30286640001, 30286640002, 30286640003, 30286640004, 30286640005, 30286640006, 30286640007

METHOD BLANK: 1641032 Matrix: Water
Associated Lab Samples: 30286640001, 30286640002, 30286640003, 30286640004, 30286640005, 30286640006, 30286640007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	04/05/19 17:02	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	04/05/19 17:02	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	04/05/19 17:02	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	04/05/19 17:02	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	04/05/19 17:02	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	04/05/19 17:02	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	04/05/19 17:02	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	04/05/19 17:02	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	04/05/19 17:02	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	04/05/19 17:02	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	04/05/19 17:02	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	04/05/19 17:02	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	04/05/19 17:02	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	04/05/19 17:02	
2-Hexanone	ug/L	10.0 U	10.0	0.66	04/05/19 17:02	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	04/05/19 17:02	
Acetone	ug/L	10.0 U	10.0	2.8	04/05/19 17:02	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	04/05/19 17:02	
Benzene	ug/L	1.0 U	1.0	0.24	04/05/19 17:02	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	04/05/19 17:02	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	04/05/19 17:02	
Bromoform	ug/L	1.0 U	1.0	0.32	04/05/19 17:02	
Bromomethane	ug/L	1.0 U	1.0	0.49	04/05/19 17:02	CL
Carbon disulfide	ug/L	1.0 U	1.0	0.32	04/05/19 17:02	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	04/05/19 17:02	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	04/05/19 17:02	
Chloroethane	ug/L	1.0 U	1.0	0.55	04/05/19 17:02	
Chloroform	ug/L	1.0 U	1.0	0.30	04/05/19 17:02	
Chloromethane	ug/L	1.0 U	1.0	0.68	04/05/19 17:02	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	04/05/19 17:02	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	04/05/19 17:02	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	04/05/19 17:02	
Dibromomethane	ug/L	1.0 U	1.0	0.40	04/05/19 17:02	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	04/05/19 17:02	
Iodomethane	ug/L	50.0 U	50.0	0.67	04/05/19 17:02	CL
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	04/05/19 17:02	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	04/05/19 17:02	
Naphthalene	ug/L	2.0 U	2.0	0.82	04/05/19 17:02	
Styrene	ug/L	1.0 U	1.0	0.17	04/05/19 17:02	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	04/05/19 17:02	
Toluene	ug/L	1.0 U	1.0	0.30	04/05/19 17:02	

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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.: 30286640

METHOD BLANK: 1641032 Matrix: Water
Associated Lab Samples: 30286640001, 30286640002, 30286640003, 30286640004, 30286640005, 30286640006, 30286640007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	04/05/19 17:02	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	04/05/19 17:02	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	04/05/19 17:02	
Trichloroethene	ug/L	1.0 U	1.0	0.39	04/05/19 17:02	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	04/05/19 17:02	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	04/05/19 17:02	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	04/05/19 17:02	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	04/05/19 17:02	
1,2-Dichloroethane-d4 (S)	%.	104	80-120		04/05/19 17:02	
4-Bromofluorobenzene (S)	%.	96	78-122		04/05/19 17:02	
Dibromofluoromethane (S)	%.	105	80-120		04/05/19 17:02	
Toluene-d8 (S)	%.	97	80-120		04/05/19 17:02	

LABORATORY CONTROL SAMPLE: 1641033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	16.8	84	70-130	
1,1,1-Trichloroethane	ug/L	20	18.3	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.1	90	70-130	
1,1,2-Trichloroethane	ug/L	20	18.4	92	70-130	
1,1-Dichloroethane	ug/L	20	17.4	87	68-121	
1,1-Dichloroethene	ug/L	20	17.3	87	63-129	
1,2,3-Trichloropropane	ug/L	20	18.7	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.8	89	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	18.4	92	70-130	
1,2-Dichlorobenzene	ug/L	20	17.8	89	70-130	
1,2-Dichloroethane	ug/L	20	17.7	88	67-117	
1,2-Dichloropropane	ug/L	20	17.3	87	69-121	
1,4-Dichlorobenzene	ug/L	20	17.5	87	70-130	
2-Butanone (MEK)	ug/L	20	17.9	90	59-128	
2-Hexanone	ug/L	20	19.9	99	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.7	93	63-126	
Acetone	ug/L	20	20.4	102	37-150	
Acrylonitrile	ug/L	20	16.1	80	62-128	
Benzene	ug/L	20	18.0	90	70-130	
Bromochloromethane	ug/L	20	18.8	94	59-137	
Bromodichloromethane	ug/L	20	17.6	88	70-130	
Bromoform	ug/L	20	16.5	83	65-130	
Bromomethane	ug/L	20	11.4	57	45-148	CL
Carbon disulfide	ug/L	20	17.6	88	55-123	
Carbon tetrachloride	ug/L	20	16.9	85	69-126	
Chlorobenzene	ug/L	20	18.0	90	70-130	
Chloroethane	ug/L	20	21.0	105	68-146	
Chloroform	ug/L	20	17.0	85	69-116	

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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.: 30286640

LABORATORY CONTROL SAMPLE: 1641033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.8	84	56-129	
cis-1,2-Dichloroethene	ug/L	20	16.4	82	66-118	
cis-1,3-Dichloropropene	ug/L	20	17.0	85	70-130	
Dibromochloromethane	ug/L	20	18.4	92	70-130	
Dibromomethane	ug/L	20	16.8	84	70-130	
Ethylbenzene	ug/L	20	17.6	88	70-130	
Iodomethane	ug/L	20	11.8J	59	10-175	CL
Methyl-tert-butyl ether	ug/L	20	18.3	92	70-130	
Methylene Chloride	ug/L	20	17.7	89	65-124	
Naphthalene	ug/L	20	18.8	94	69-135	
Styrene	ug/L	20	18.1	90	70-130	
Tetrachloroethene	ug/L	20	18.0	90	70-130	
Toluene	ug/L	20	18.1	90	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.5	87	64-123	
trans-1,3-Dichloropropene	ug/L	20	17.6	88	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	16.9	84	37-119	
Trichloroethene	ug/L	20	18.4	92	70-130	
Trichlorofluoromethane	ug/L	20	22.8	114	64-163	
Vinyl acetate	ug/L	20	19.1	95	45-129	
Vinyl chloride	ug/L	20	21.5	107	70-130	
Xylene (Total)	ug/L	60	54.3	90	70-130	
1,2-Dichloroethane-d4 (S)	%.			100	80-120	
4-Bromofluorobenzene (S)	%.			98	78-122	
Dibromofluoromethane (S)	%.			99	80-120	
Toluene-d8 (S)	%.			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1641034 1641035

Parameter	Units	30286640005 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	14.2	15.7	71	78	52-123	10	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.5	18.1	82	90	67-127	9	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	15.3	16.9	77	84	55-118	10	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	15.7	17.0	79	85	60-117	8	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	15.8	17.2	79	86	68-118	9	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	16.3	17.4	81	87	62-126	6	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	16.4	17.7	82	88	56-129	7	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	14.9	17.0	74	85	46-130	13	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	15.6	17.5	78	87	69-124	11	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	16.1	16.7	81	83	66-116	3	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	14.9	16.5	74	83	67-117	11	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	15.1	16.5	75	83	61-128	9	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	15.7	16.4	79	82	68-116	4	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	15.3	20.9	77	105	63-175	31	30	R1

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30286640

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1641034 1641035

Parameter	Units	30286640005 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	22.9	89	114	65-151	25	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	16.9	21.9	84	109	66-149	26	30	
Acetone	ug/L	4.9J	20	20	18.1	22.0	66	85	10-175	19	30	
Acrylonitrile	ug/L	4.0 U	20	20	14.2	17.7	71	89	42-165	22	30	
Benzene	ug/L	1.9	20	20	17.8	19.2	80	86	67-119	7	30	
Bromochloromethane	ug/L	1.0 U	20	20	16.3	17.7	81	89	64-124	9	30	
Bromodichloromethane	ug/L	1.0 U	20	20	15.2	16.5	76	83	67-126	8	30	
Bromoform	ug/L	1.0 U	20	20	13.1	15.1	66	76	43-114	14	30	
Bromomethane	ug/L	1.0 U	20	20	19.0	21.1	95	105	10-164	10	30	CL
Carbon disulfide	ug/L	1.0 U	20	20	16.8	18.8	84	94	37-135	11	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	15.7	17.3	79	86	60-137	9	30	
Chlorobenzene	ug/L	1.0 U	20	20	16.1	17.5	80	87	68-119	9	30	
Chloroethane	ug/L	1.0 U	20	20	20.3	21.9	101	109	54-169	8	30	
Chloroform	ug/L	1.0 U	20	20	15.2	16.5	76	82	69-113	8	30	
Chloromethane	ug/L	1.0 U	20	20	16.5	18.2	83	91	43-159	9	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	14.1	16.3	71	81	65-121	14	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.7	16.4	73	82	61-120	11	30	
Dibromochloromethane	ug/L	1.0 U	20	20	15.4	16.9	77	85	56-121	10	30	
Dibromomethane	ug/L	1.0 U	20	20	14.7	16.7	73	83	56-133	13	30	
Ethylbenzene	ug/L	1.0 U	20	20	15.8	17.2	79	86	69-127	8	30	
Iodomethane	ug/L	50.0 U	20	20	9.0J	10.6J	45	53	10-152		30	CL
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	16.4	18.8	82	94	70-130	14	30	
Methylene Chloride	ug/L	1.0 U	20	20	14.5	17.5	72	87	49-144	19	30	
Naphthalene	ug/L	1.9J	20	20	14.8	17.3	64	77	60-136	16	30	
Styrene	ug/L	1.0 U	20	20	15.7	16.7	78	84	65-120	6	30	
Tetrachloroethene	ug/L	1.0 U	20	20	17.2	18.0	86	90	64-123	5	30	
Toluene	ug/L	1.0 U	20	20	16.4	17.8	81	88	70-130	9	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	15.9	17.0	80	85	66-119	7	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.0	16.5	75	82	52-117	10	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	14.6	18.2	73	91	13-100	22	30	
Trichloroethene	ug/L	1.0 U	20	20	16.7	18.0	83	90	63-125	7	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	21.2	22.9	106	114	43-186	7	30	
Vinyl acetate	ug/L	10.0 U	20	20	16.2	18.6	81	93	35-150	14	30	
Vinyl chloride	ug/L	1.0 U	20	20	19.9	22.4	100	112	60-133	12	30	
Xylene (Total)	ug/L	3.0 U	60	60	48.0	51.9	80	86	69-128	8	30	
1,2-Dichloroethane-d4 (S)	%.						99	101	80-120			
4-Bromofluorobenzene (S)	%.						97	93	78-122			
Dibromofluoromethane (S)	%.						100	104	80-120			
Toluene-d8 (S)	%.						98	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.: 30286640

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.
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.: 30286640

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30286640001	**Trip Blank**	EPA 8260B	337153		
30286640002	**CO102-PZMXXX**	EPA 8260B	337153		
30286640003	**CO103-PZMXXX**	EPA 8260B	337153		
30286640004	**CO101-PZMXXX**	EPA 8260B	337153		
30286640005	**CO104-PZMXXX**	EPA 8260B	337153		
30286640006	**CO30-PZM015**	EPA 8260B	337153		
30286640007	**CO30-PZM060**	EPA 8260B	337153		

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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:	

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# : 30286640

30286640

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	Res	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			3/28/19	—		2					2				X		001
2	C0102-PZMXXX	WT	G				955		3					3				X		002
3	C0103-PZMXXX	WT	G				1042		3					3				X		003
4	C0101-PZMXXX	WT	G				1150		3					3				X		004
5	C0104-PZMXXX	WT	G				1220		3					3				X		005
6	C030-PZM015	WT	G				1410		3					3				X		006
7	C030-PZM060	WT	G				1450		3					3				X		007
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 pkgs		3/28/19	1700		3/28/19	1600				
		3/28/19	1930	RDS TACE	3/28/19	1935		Y		
	RDS TACE	3-28-19	2050		3-28-19	2050	2.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perrin

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/28/19

*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 # 30286640

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label BLM
LIMS Login BLM

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 11 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 2.0 °C Correction Factor: 0 °C Final Temp: 2.0 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A Date and Initials of person examining contents: BLM 3-29-19

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 BLM Date/time of preservation; Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad 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

April 10, 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.: 30286834

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on March 29, 2019. 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.: 30286834

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.: 30286834

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30286834001	**Trip Blanks**	Water	03/29/19 00:01	03/29/19 22:30
30286834002	**C043-PZM048**	Water	03/29/19 08:44	03/29/19 22:30
30286834003	**C044-PZM048**	Water	03/29/19 08:59	03/29/19 22:30
30286834004	**C045-PZM047**	Water	03/29/19 09:13	03/29/19 22:30
30286834005	**C046-PZM047**	Water	03/29/19 09:35	03/29/19 22:30
30286834006	**C047-PZM046**	Water	03/29/19 09:51	03/29/19 22:30
30286834007	**C048-PZM044**	Water	03/29/19 10:04	03/29/19 22:30

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30286834

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30286834001	**Trip Blanks**	EPA 8260B	LEL	53	PASI-PA
30286834002	**C043-PZM048**	EPA 8260B	LEL	53	PASI-PA
30286834003	**C044-PZM048**	EPA 8260B	LEL	53	PASI-PA
30286834004	**C045-PZM047**	EPA 8260B	LEL	53	PASI-PA
30286834005	**C046-PZM047**	EPA 8260B	LEL	53	PASI-PA
30286834006	**C047-PZM046**	EPA 8260B	LEL	53	PASI-PA
30286834007	**C048-PZM044**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286834

Sample: Trip Blanks **Lab ID: 30286834001** Collected: 03/29/19 00:01 Received: 03/29/19 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		04/06/19 15:40	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 15:40	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 15:40	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 15:40	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/06/19 15:40	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 15:40	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/06/19 15:40	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/06/19 15:40	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 15:40	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/06/19 15:40	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 15:40	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/06/19 15:40	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 15:40	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/06/19 15:40	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/06/19 15:40	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/06/19 15:40	108-10-1	
Acetone	**3.5J**	ug/L	10.0	2.8	1		04/06/19 15:40	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/06/19 15:40	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		04/06/19 15:40	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 15:40	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/06/19 15:40	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 15:40	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/06/19 15:40	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 15:40	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 15:40	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/06/19 15:40	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/06/19 15:40	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/06/19 15:40	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/06/19 15:40	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/06/19 15:40	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/06/19 15:40	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 15:40	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/06/19 15:40	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/06/19 15:40	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/06/19 15:40	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		04/06/19 15:40	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/06/19 15:40	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 15:40	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		04/06/19 15:40	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/06/19 15:40	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 15:40	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/06/19 15:40	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 15:40	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		04/06/19 15:40	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/06/19 15:40	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 15:40	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286834

Sample: Trip Blanks **Lab ID: 30286834001** Collected: 03/29/19 00:01 Received: 03/29/19 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		04/06/19 15:40	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/06/19 15:40	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/06/19 15:40	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		04/06/19 15:40	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		1		04/06/19 15:40	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		1		04/06/19 15:40	2037-26-5	
Dibromofluoromethane (S)	94	%.	80-120		1		04/06/19 15:40	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286834

Sample: C043-PZM048 **Lab ID: 30286834002** Collected: 03/29/19 08:44 Received: 03/29/19 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		04/05/19 18:42	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 18:42	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 18:42	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 18:42	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/05/19 18:42	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 18:42	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/05/19 18:42	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/05/19 18:42	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 18:42	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/05/19 18:42	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 18:42	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/05/19 18:42	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 18:42	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/05/19 18:42	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/05/19 18:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/05/19 18:42	108-10-1	
Acetone	**8.4J**	ug/L	10.0	2.8	1		04/05/19 18:42	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/05/19 18:42	107-13-1	
Benzene	**2350**	ug/L	10.0	2.4	10		04/06/19 15:28	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 18:42	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/05/19 18:42	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 18:42	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/05/19 18:42	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 18:42	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 18:42	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/05/19 18:42	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/05/19 18:42	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 18:42	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/05/19 18:42	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/05/19 18:42	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/05/19 18:42	74-95-3	
Ethylbenzene	**6.2**	ug/L	1.0	0.31	1		04/05/19 18:42	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/05/19 18:42	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/05/19 18:42	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/05/19 18:42	75-09-2	
Naphthalene	**12.2**	ug/L	2.0	0.82	1		04/05/19 18:42	91-20-3	
Styrene	**0.86J**	ug/L	1.0	0.17	1		04/05/19 18:42	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 18:42	127-18-4	
Toluene	**70.4**	ug/L	1.0	0.30	1		04/05/19 18:42	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/05/19 18:42	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 18:42	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/05/19 18:42	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 18:42	75-01-4	
Xylene (Total)	**86.0**	ug/L	3.0	0.78	1		04/05/19 18:42	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/05/19 18:42	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 18:42	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286834

Sample: C043-PZM048 **Lab ID: 30286834002** Collected: 03/29/19 08:44 Received: 03/29/19 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		04/05/19 18:42	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/05/19 18:42	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/05/19 18:42	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		04/05/19 18:42	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		04/05/19 18:42	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		04/05/19 18:42	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		04/05/19 18:42	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286834

Sample: C044-PZM048 **Lab ID: 30286834003** Collected: 03/29/19 08:59 Received: 03/29/19 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		04/06/19 16:31	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 16:31	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 16:31	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 16:31	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/06/19 16:31	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 16:31	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/06/19 16:31	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/06/19 16:31	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 16:31	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/06/19 16:31	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 16:31	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/06/19 16:31	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 16:31	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/06/19 16:31	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/06/19 16:31	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/06/19 16:31	108-10-1	
Acetone	**7.1J**	ug/L	10.0	2.8	1		04/06/19 16:31	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/06/19 16:31	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		04/06/19 16:31	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 16:31	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/06/19 16:31	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 16:31	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/06/19 16:31	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 16:31	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 16:31	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/06/19 16:31	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/06/19 16:31	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/06/19 16:31	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/06/19 16:31	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/06/19 16:31	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/06/19 16:31	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 16:31	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/06/19 16:31	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/06/19 16:31	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/06/19 16:31	75-09-2	
Naphthalene	**2.7**	ug/L	2.0	0.82	1		04/06/19 16:31	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/06/19 16:31	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 16:31	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		04/06/19 16:31	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/06/19 16:31	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 16:31	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/06/19 16:31	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 16:31	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		04/06/19 16:31	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/06/19 16:31	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 16:31	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286834

Sample: C044-PZM048 **Lab ID: 30286834003** Collected: 03/29/19 08:59 Received: 03/29/19 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		04/06/19 16:31	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/06/19 16:31	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/06/19 16:31	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	78-122		1		04/06/19 16:31	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%.	80-120		1		04/06/19 16:31	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		04/06/19 16:31	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120		1		04/06/19 16:31	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286834

Sample: C045-PZM047 **Lab ID: 30286834004** Collected: 03/29/19 09:13 Received: 03/29/19 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		04/05/19 22:27	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 22:27	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 22:27	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 22:27	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/05/19 22:27	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 22:27	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/05/19 22:27	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/05/19 22:27	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 22:27	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/05/19 22:27	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 22:27	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/05/19 22:27	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/05/19 22:27	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/05/19 22:27	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/05/19 22:27	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/05/19 22:27	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		04/05/19 22:27	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/05/19 22:27	107-13-1	
Benzene	**609**	ug/L	10.0	2.4	10		04/05/19 17:15	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 22:27	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/05/19 22:27	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 22:27	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/05/19 22:27	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 22:27	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/05/19 22:27	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/05/19 22:27	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/05/19 22:27	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/05/19 22:27	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/05/19 22:27	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/05/19 22:27	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/05/19 22:27	74-95-3	
Ethylbenzene	**0.86J**	ug/L	1.0	0.31	1		04/05/19 22:27	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/05/19 22:27	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/05/19 22:27	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/05/19 22:27	75-09-2	
Naphthalene	**13.5**	ug/L	2.0	0.82	1		04/05/19 22:27	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/05/19 22:27	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/05/19 22:27	127-18-4	
Toluene	**2.0**	ug/L	1.0	0.30	1		04/05/19 22:27	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/05/19 22:27	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/05/19 22:27	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/05/19 22:27	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/05/19 22:27	75-01-4	
Xylene (Total)	**4.4**	ug/L	3.0	0.78	1		04/05/19 22:27	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/05/19 22:27	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/05/19 22:27	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286834

Sample: C045-PZM047 **Lab ID: 30286834004** Collected: 03/29/19 09:13 Received: 03/29/19 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		04/05/19 22:27	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/05/19 22:27	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/05/19 22:27	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		1		04/05/19 22:27	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		04/05/19 22:27	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		04/05/19 22:27	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		1		04/05/19 22:27	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286834

Sample: C046-PZM047 **Lab ID: 30286834005** Collected: 03/29/19 09:35 Received: 03/29/19 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		04/06/19 23:35	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 23:35	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 23:35	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 23:35	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/06/19 23:35	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 23:35	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/06/19 23:35	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/06/19 23:35	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 23:35	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/06/19 23:35	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 23:35	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 23:35	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 23:35	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/06/19 23:35	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/06/19 23:35	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/06/19 23:35	108-10-1	
Acetone	**25.1J**	ug/L	50.0	14.2	5		04/06/19 23:35	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/06/19 23:35	107-13-1	
Benzene	**148000**	ug/L	1000	240	1000		04/06/19 19:38	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 23:35	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 23:35	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 23:35	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/06/19 23:35	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 23:35	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 23:35	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/06/19 23:35	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/06/19 23:35	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/06/19 23:35	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/06/19 23:35	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 23:35	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 23:35	74-95-3	
Ethylbenzene	**494**	ug/L	5.0	1.6	5		04/06/19 23:35	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/06/19 23:35	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 23:35	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		04/06/19 23:35	75-09-2	
Naphthalene	**604**	ug/L	10.0	4.1	5		04/06/19 23:35	91-20-3	
Styrene	**38.8**	ug/L	5.0	0.85	5		04/06/19 23:35	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 23:35	127-18-4	
Toluene	**13600**	ug/L	200	60.0	200		04/06/19 19:13	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 23:35	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 23:35	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/06/19 23:35	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 23:35	75-01-4	
Xylene (Total)	**3850**	ug/L	15.0	3.9	5		04/06/19 23:35	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/06/19 23:35	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 23:35	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286834

Sample: C046-PZM047 **Lab ID: 30286834005** Collected: 03/29/19 09:35 Received: 03/29/19 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		04/06/19 23:35	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/06/19 23:35	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/06/19 23:35	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		04/06/19 23:35	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	80-120		5		04/06/19 23:35	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		04/06/19 23:35	2037-26-5	
Dibromofluoromethane (S)	104	%.	80-120		5		04/06/19 23:35	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286834

Sample: C047-PZM046 **Lab ID: 30286834006** Collected: 03/29/19 09:51 Received: 03/29/19 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		04/06/19 19:51	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 19:51	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 19:51	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 19:51	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/06/19 19:51	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 19:51	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/06/19 19:51	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/06/19 19:51	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 19:51	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/06/19 19:51	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 19:51	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 19:51	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 19:51	106-46-7	
2-Butanone (MEK)	**12.8J**	ug/L	50.0	10.5	5		04/06/19 19:51	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/06/19 19:51	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/06/19 19:51	108-10-1	
Acetone	**100**	ug/L	50.0	14.2	5		04/06/19 19:51	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/06/19 19:51	107-13-1	
Benzene	**15900**	ug/L	50.0	12.0	50		04/09/19 16:18	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 19:51	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 19:51	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 19:51	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/06/19 19:51	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 19:51	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 19:51	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/06/19 19:51	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/06/19 19:51	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/06/19 19:51	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/06/19 19:51	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 19:51	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 19:51	74-95-3	
Ethylbenzene	**181**	ug/L	5.0	1.6	5		04/06/19 19:51	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/06/19 19:51	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 19:51	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		04/06/19 19:51	75-09-2	
Naphthalene	**959**	ug/L	10.0	4.1	5		04/06/19 19:51	91-20-3	
Styrene	**188**	ug/L	5.0	0.85	5		04/06/19 19:51	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 19:51	127-18-4	
Toluene	**5640**	ug/L	50.0	15.0	50		04/09/19 16:18	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 19:51	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 19:51	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/06/19 19:51	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 19:51	75-01-4	
Xylene (Total)	**1790**	ug/L	15.0	3.9	5		04/06/19 19:51	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/06/19 19:51	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 19:51	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286834

Sample: C047-PZM046 **Lab ID: 30286834006** Collected: 03/29/19 09:51 Received: 03/29/19 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		04/06/19 19:51	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/06/19 19:51	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/06/19 19:51	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		5		04/06/19 19:51	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		5		04/06/19 19:51	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		04/06/19 19:51	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		5		04/06/19 19:51	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286834

Sample: C048-PZM044 **Lab ID: 30286834007** Collected: 03/29/19 10:04 Received: 03/29/19 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		04/06/19 23:10	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 23:10	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 23:10	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 23:10	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/06/19 23:10	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 23:10	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/06/19 23:10	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/06/19 23:10	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 23:10	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/06/19 23:10	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 23:10	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 23:10	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 23:10	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/06/19 23:10	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/06/19 23:10	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/06/19 23:10	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		04/06/19 23:10	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/06/19 23:10	107-13-1	
Benzene	**15200**	ug/L	500	120	500		04/06/19 18:48	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 23:10	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 23:10	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 23:10	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/06/19 23:10	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 23:10	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 23:10	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/06/19 23:10	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/06/19 23:10	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/06/19 23:10	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/06/19 23:10	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 23:10	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 23:10	74-95-3	
Ethylbenzene	**259**	ug/L	5.0	1.6	5		04/06/19 23:10	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/06/19 23:10	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 23:10	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		04/06/19 23:10	75-09-2	
Naphthalene	**1470**	ug/L	10.0	4.1	5		04/06/19 23:10	91-20-3	
Styrene	**384**	ug/L	5.0	0.85	5		04/06/19 23:10	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 23:10	127-18-4	
Toluene	**8750**	ug/L	500	150	500		04/06/19 18:48	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 23:10	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 23:10	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/06/19 23:10	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 23:10	75-01-4	
Xylene (Total)	**2090**	ug/L	15.0	3.9	5		04/06/19 23:10	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/06/19 23:10	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 23:10	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30286834

Sample: C048-PZM044 **Lab ID: 30286834007** Collected: 03/29/19 10:04 Received: 03/29/19 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		04/06/19 23:10	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/06/19 23:10	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/06/19 23:10	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		04/06/19 23:10	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		5		04/06/19 23:10	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		5		04/06/19 23:10	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		5		04/06/19 23:10	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30286834

QC Batch: 337153 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30286834002, 30286834004

METHOD BLANK: 1641032 Matrix: Water
Associated Lab Samples: 30286834002, 30286834004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	04/05/19 17:02	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	04/05/19 17:02	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	04/05/19 17:02	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	04/05/19 17:02	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	04/05/19 17:02	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	04/05/19 17:02	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	04/05/19 17:02	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	04/05/19 17:02	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	04/05/19 17:02	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	04/05/19 17:02	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	04/05/19 17:02	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	04/05/19 17:02	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	04/05/19 17:02	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	04/05/19 17:02	
2-Hexanone	ug/L	10.0 U	10.0	0.66	04/05/19 17:02	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	04/05/19 17:02	
Acetone	ug/L	10.0 U	10.0	2.8	04/05/19 17:02	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	04/05/19 17:02	
Benzene	ug/L	1.0 U	1.0	0.24	04/05/19 17:02	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	04/05/19 17:02	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	04/05/19 17:02	
Bromoform	ug/L	1.0 U	1.0	0.32	04/05/19 17:02	
Bromomethane	ug/L	1.0 U	1.0	0.49	04/05/19 17:02	CL
Carbon disulfide	ug/L	1.0 U	1.0	0.32	04/05/19 17:02	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	04/05/19 17:02	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	04/05/19 17:02	
Chloroethane	ug/L	1.0 U	1.0	0.55	04/05/19 17:02	
Chloroform	ug/L	1.0 U	1.0	0.30	04/05/19 17:02	
Chloromethane	ug/L	1.0 U	1.0	0.68	04/05/19 17:02	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	04/05/19 17:02	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	04/05/19 17:02	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	04/05/19 17:02	
Dibromomethane	ug/L	1.0 U	1.0	0.40	04/05/19 17:02	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	04/05/19 17:02	
Iodomethane	ug/L	50.0 U	50.0	0.67	04/05/19 17:02	CL
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	04/05/19 17:02	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	04/05/19 17:02	
Naphthalene	ug/L	2.0 U	2.0	0.82	04/05/19 17:02	
Styrene	ug/L	1.0 U	1.0	0.17	04/05/19 17:02	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	04/05/19 17:02	
Toluene	ug/L	1.0 U	1.0	0.30	04/05/19 17:02	

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.: 30286834

METHOD BLANK: 1641032 Matrix: Water
Associated Lab Samples: 30286834002, 30286834004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	04/05/19 17:02	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	04/05/19 17:02	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	04/05/19 17:02	
Trichloroethene	ug/L	1.0 U	1.0	0.39	04/05/19 17:02	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	04/05/19 17:02	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	04/05/19 17:02	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	04/05/19 17:02	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	04/05/19 17:02	
1,2-Dichloroethane-d4 (S)	%.	104	80-120		04/05/19 17:02	
4-Bromofluorobenzene (S)	%.	96	78-122		04/05/19 17:02	
Dibromofluoromethane (S)	%.	105	80-120		04/05/19 17:02	
Toluene-d8 (S)	%.	97	80-120		04/05/19 17:02	

LABORATORY CONTROL SAMPLE: 1641033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	16.8	84	70-130	
1,1,1-Trichloroethane	ug/L	20	18.3	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.1	90	70-130	
1,1,2-Trichloroethane	ug/L	20	18.4	92	70-130	
1,1-Dichloroethane	ug/L	20	17.4	87	68-121	
1,1-Dichloroethene	ug/L	20	17.3	87	63-129	
1,2,3-Trichloropropane	ug/L	20	18.7	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.8	89	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	18.4	92	70-130	
1,2-Dichlorobenzene	ug/L	20	17.8	89	70-130	
1,2-Dichloroethane	ug/L	20	17.7	88	67-117	
1,2-Dichloropropane	ug/L	20	17.3	87	69-121	
1,4-Dichlorobenzene	ug/L	20	17.5	87	70-130	
2-Butanone (MEK)	ug/L	20	17.9	90	59-128	
2-Hexanone	ug/L	20	19.9	99	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.7	93	63-126	
Acetone	ug/L	20	20.4	102	37-150	
Acrylonitrile	ug/L	20	16.1	80	62-128	
Benzene	ug/L	20	18.0	90	70-130	
Bromochloromethane	ug/L	20	18.8	94	59-137	
Bromodichloromethane	ug/L	20	17.6	88	70-130	
Bromoform	ug/L	20	16.5	83	65-130	
Bromomethane	ug/L	20	11.4	57	45-148	CL
Carbon disulfide	ug/L	20	17.6	88	55-123	
Carbon tetrachloride	ug/L	20	16.9	85	69-126	
Chlorobenzene	ug/L	20	18.0	90	70-130	
Chloroethane	ug/L	20	21.0	105	68-146	
Chloroform	ug/L	20	17.0	85	69-116	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30286834

LABORATORY CONTROL SAMPLE: 1641033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.8	84	56-129	
cis-1,2-Dichloroethene	ug/L	20	16.4	82	66-118	
cis-1,3-Dichloropropene	ug/L	20	17.0	85	70-130	
Dibromochloromethane	ug/L	20	18.4	92	70-130	
Dibromomethane	ug/L	20	16.8	84	70-130	
Ethylbenzene	ug/L	20	17.6	88	70-130	
Iodomethane	ug/L	20	11.8J	59	10-175	CL
Methyl-tert-butyl ether	ug/L	20	18.3	92	70-130	
Methylene Chloride	ug/L	20	17.7	89	65-124	
Naphthalene	ug/L	20	18.8	94	69-135	
Styrene	ug/L	20	18.1	90	70-130	
Tetrachloroethene	ug/L	20	18.0	90	70-130	
Toluene	ug/L	20	18.1	90	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.5	87	64-123	
trans-1,3-Dichloropropene	ug/L	20	17.6	88	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	16.9	84	37-119	
Trichloroethene	ug/L	20	18.4	92	70-130	
Trichlorofluoromethane	ug/L	20	22.8	114	64-163	
Vinyl acetate	ug/L	20	19.1	95	45-129	
Vinyl chloride	ug/L	20	21.5	107	70-130	
Xylene (Total)	ug/L	60	54.3	90	70-130	
1,2-Dichloroethane-d4 (S)	%.			100	80-120	
4-Bromofluorobenzene (S)	%.			98	78-122	
Dibromofluoromethane (S)	%.			99	80-120	
Toluene-d8 (S)	%.			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1641034 1641035

Parameter	Units	30286640005 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	14.2	15.7	71	78	52-123	10	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.5	18.1	82	90	67-127	9	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	15.3	16.9	77	84	55-118	10	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	15.7	17.0	79	85	60-117	8	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	15.8	17.2	79	86	68-118	9	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	16.3	17.4	81	87	62-126	6	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	16.4	17.7	82	88	56-129	7	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	14.9	17.0	74	85	46-130	13	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	15.6	17.5	78	87	69-124	11	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	16.1	16.7	81	83	66-116	3	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	14.9	16.5	74	83	67-117	11	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	15.1	16.5	75	83	61-128	9	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	15.7	16.4	79	82	68-116	4	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	15.3	20.9	77	105	63-175	31	30	R1

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30286834

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1641034 1641035

Parameter	Units	30286640005 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	22.9	89	114	65-151	25	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	16.9	21.9	84	109	66-149	26	30	
Acetone	ug/L	4.9J	20	20	18.1	22.0	66	85	10-175	19	30	
Acrylonitrile	ug/L	4.0 U	20	20	14.2	17.7	71	89	42-165	22	30	
Benzene	ug/L	1.9	20	20	17.8	19.2	80	86	67-119	7	30	
Bromochloromethane	ug/L	1.0 U	20	20	16.3	17.7	81	89	64-124	9	30	
Bromodichloromethane	ug/L	1.0 U	20	20	15.2	16.5	76	83	67-126	8	30	
Bromoform	ug/L	1.0 U	20	20	13.1	15.1	66	76	43-114	14	30	
Bromomethane	ug/L	1.0 U	20	20	19.0	21.1	95	105	10-164	10	30	CL
Carbon disulfide	ug/L	1.0 U	20	20	16.8	18.8	84	94	37-135	11	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	15.7	17.3	79	86	60-137	9	30	
Chlorobenzene	ug/L	1.0 U	20	20	16.1	17.5	80	87	68-119	9	30	
Chloroethane	ug/L	1.0 U	20	20	20.3	21.9	101	109	54-169	8	30	
Chloroform	ug/L	1.0 U	20	20	15.2	16.5	76	82	69-113	8	30	
Chloromethane	ug/L	1.0 U	20	20	16.5	18.2	83	91	43-159	9	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	14.1	16.3	71	81	65-121	14	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.7	16.4	73	82	61-120	11	30	
Dibromochloromethane	ug/L	1.0 U	20	20	15.4	16.9	77	85	56-121	10	30	
Dibromomethane	ug/L	1.0 U	20	20	14.7	16.7	73	83	56-133	13	30	
Ethylbenzene	ug/L	1.0 U	20	20	15.8	17.2	79	86	69-127	8	30	
Iodomethane	ug/L	50.0 U	20	20	9.0J	10.6J	45	53	10-152		30	CL
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	16.4	18.8	82	94	70-130	14	30	
Methylene Chloride	ug/L	1.0 U	20	20	14.5	17.5	72	87	49-144	19	30	
Naphthalene	ug/L	1.9J	20	20	14.8	17.3	64	77	60-136	16	30	
Styrene	ug/L	1.0 U	20	20	15.7	16.7	78	84	65-120	6	30	
Tetrachloroethene	ug/L	1.0 U	20	20	17.2	18.0	86	90	64-123	5	30	
Toluene	ug/L	1.0 U	20	20	16.4	17.8	81	88	70-130	9	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	15.9	17.0	80	85	66-119	7	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.0	16.5	75	82	52-117	10	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	14.6	18.2	73	91	13-100	22	30	
Trichloroethene	ug/L	1.0 U	20	20	16.7	18.0	83	90	63-125	7	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	21.2	22.9	106	114	43-186	7	30	
Vinyl acetate	ug/L	10.0 U	20	20	16.2	18.6	81	93	35-150	14	30	
Vinyl chloride	ug/L	1.0 U	20	20	19.9	22.4	100	112	60-133	12	30	
Xylene (Total)	ug/L	3.0 U	60	60	48.0	51.9	80	86	69-128	8	30	
1,2-Dichloroethane-d4 (S)	%.						99	101	80-120			
4-Bromofluorobenzene (S)	%.						97	93	78-122			
Dibromofluoromethane (S)	%.						100	104	80-120			
Toluene-d8 (S)	%.						98	98	80-120			

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Greensburg, PA 15601
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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30286834

QC Batch: 337215 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30286834001, 30286834003, 30286834005, 30286834006, 30286834007

METHOD BLANK: 1641532 Matrix: Water
Associated Lab Samples: 30286834001, 30286834003, 30286834005, 30286834006, 30286834007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	04/06/19 15:15	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	04/06/19 15:15	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	04/06/19 15:15	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	04/06/19 15:15	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	04/06/19 15:15	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	04/06/19 15:15	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	04/06/19 15:15	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	04/06/19 15:15	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	04/06/19 15:15	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	04/06/19 15:15	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	04/06/19 15:15	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	04/06/19 15:15	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	04/06/19 15:15	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	04/06/19 15:15	
2-Hexanone	ug/L	10.0 U	10.0	0.66	04/06/19 15:15	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	04/06/19 15:15	
Acetone	ug/L	10.0 U	10.0	2.8	04/06/19 15:15	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	04/06/19 15:15	
Benzene	ug/L	1.0 U	1.0	0.24	04/06/19 15:15	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	04/06/19 15:15	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	04/06/19 15:15	
Bromoform	ug/L	1.0 U	1.0	0.32	04/06/19 15:15	
Bromomethane	ug/L	1.0 U	1.0	0.49	04/06/19 15:15	CL
Carbon disulfide	ug/L	1.0 U	1.0	0.32	04/06/19 15:15	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	04/06/19 15:15	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	04/06/19 15:15	
Chloroethane	ug/L	1.0 U	1.0	0.55	04/06/19 15:15	
Chloroform	ug/L	1.0 U	1.0	0.30	04/06/19 15:15	
Chloromethane	ug/L	1.0 U	1.0	0.68	04/06/19 15:15	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	04/06/19 15:15	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	04/06/19 15:15	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	04/06/19 15:15	
Dibromomethane	ug/L	1.0 U	1.0	0.40	04/06/19 15:15	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	04/06/19 15:15	
Iodomethane	ug/L	50.0 U	50.0	0.67	04/06/19 15:15	CL
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	04/06/19 15:15	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	04/06/19 15:15	
Naphthalene	ug/L	2.0 U	2.0	0.82	04/06/19 15:15	
Styrene	ug/L	1.0 U	1.0	0.17	04/06/19 15:15	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	04/06/19 15:15	
Toluene	ug/L	1.0 U	1.0	0.30	04/06/19 15:15	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30286834

METHOD BLANK: 1641532 Matrix: Water
Associated Lab Samples: 30286834001, 30286834003, 30286834005, 30286834006, 30286834007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	04/06/19 15:15	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	04/06/19 15:15	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	04/06/19 15:15	
Trichloroethene	ug/L	1.0 U	1.0	0.39	04/06/19 15:15	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	04/06/19 15:15	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	04/06/19 15:15	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	04/06/19 15:15	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	04/06/19 15:15	
1,2-Dichloroethane-d4 (S)	%.	102	80-120		04/06/19 15:15	
4-Bromofluorobenzene (S)	%.	95	78-122		04/06/19 15:15	
Dibromofluoromethane (S)	%.	96	80-120		04/06/19 15:15	
Toluene-d8 (S)	%.	97	80-120		04/06/19 15:15	

LABORATORY CONTROL SAMPLE: 1641533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	16.9	84	70-130	
1,1,1-Trichloroethane	ug/L	20	18.1	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.4	92	70-130	
1,1,2-Trichloroethane	ug/L	20	18.3	91	70-130	
1,1-Dichloroethane	ug/L	20	17.5	88	68-121	
1,1-Dichloroethene	ug/L	20	17.8	89	63-129	
1,2,3-Trichloropropane	ug/L	20	18.9	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.1	90	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	18.9	95	70-130	
1,2-Dichlorobenzene	ug/L	20	18.6	93	70-130	
1,2-Dichloroethane	ug/L	20	18.0	90	67-117	
1,2-Dichloropropane	ug/L	20	16.7	83	69-121	
1,4-Dichlorobenzene	ug/L	20	17.4	87	70-130	
2-Butanone (MEK)	ug/L	20	19.2	96	59-128	
2-Hexanone	ug/L	20	19.9	99	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.8	99	63-126	
Acetone	ug/L	20	19.9	100	37-150	
Acrylonitrile	ug/L	20	17.5	88	62-128	
Benzene	ug/L	20	18.8	94	70-130	
Bromochloromethane	ug/L	20	20.2	101	59-137	
Bromodichloromethane	ug/L	20	18.1	91	70-130	
Bromoform	ug/L	20	16.8	84	65-130	
Bromomethane	ug/L	20	16.7	83	45-148	CL
Carbon disulfide	ug/L	20	16.7	83	55-123	
Carbon tetrachloride	ug/L	20	18.2	91	69-126	
Chlorobenzene	ug/L	20	17.9	89	70-130	
Chloroethane	ug/L	20	19.6	98	68-146	
Chloroform	ug/L	20	18.2	91	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30286834

LABORATORY CONTROL SAMPLE: 1641533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	17.3	86	56-129	
cis-1,2-Dichloroethene	ug/L	20	16.6	83	66-118	
cis-1,3-Dichloropropene	ug/L	20	17.8	89	70-130	
Dibromochloromethane	ug/L	20	18.4	92	70-130	
Dibromomethane	ug/L	20	17.6	88	70-130	
Ethylbenzene	ug/L	20	17.6	88	70-130	
Iodomethane	ug/L	20	10.3J	51	10-175	CL
Methyl-tert-butyl ether	ug/L	20	19.3	97	70-130	
Methylene Chloride	ug/L	20	19.5	98	65-124	
Naphthalene	ug/L	20	18.8	94	69-135	
Styrene	ug/L	20	18.3	91	70-130	
Tetrachloroethene	ug/L	20	17.8	89	70-130	
Toluene	ug/L	20	18.1	91	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.9	90	64-123	
trans-1,3-Dichloropropene	ug/L	20	17.3	87	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	17.9	90	37-119	
Trichloroethene	ug/L	20	19.0	95	70-130	
Trichlorofluoromethane	ug/L	20	23.4	117	64-163	
Vinyl acetate	ug/L	20	20.5	103	45-129	
Vinyl chloride	ug/L	20	21.6	108	70-130	
Xylene (Total)	ug/L	60	53.3	89	70-130	
1,2-Dichloroethane-d4 (S)	%.			104	80-120	
4-Bromofluorobenzene (S)	%.			96	78-122	
Dibromofluoromethane (S)	%.			101	80-120	
Toluene-d8 (S)	%.			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1641534 1641535

Parameter	Units	30287043005 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	5.0 U	100	100	81.4	77.7	81	78	52-123	5	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	93.1	85.9	93	86	67-127	8	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	86.3	80.0	86	80	55-118	8	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	88.3	82.9	88	83	60-117	6	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	92.7	82.7	93	83	68-118	11	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	93.2	83.3	93	83	62-126	11	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	89.5	84.1	89	84	56-129	6	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	85.5	83.9	85	84	46-130	2	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	88.7	81.9	89	82	69-124	8	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	89.8	82.0	90	82	66-116	9	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	88.5	79.7	88	80	67-117	10	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	86.6	79.1	87	79	61-128	9	30	
1,4-Dichlorobenzene	ug/L	5.0 U	100	100	88.1	80.0	88	80	68-116	10	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	86.4	84.0	86	84	63-175	3	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: COA IM GW Sampling
Pace Project No.: 30286834

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1641534 1641535

Parameter	Units	30287043005 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	50.0 U	100	100	92.9	88.0	93	88	65-151	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	95.1	90.8	95	91	66-149	5	30	
Acetone	ug/L	23.7J	100	100	105	101	81	77	10-175	4	30	
Acrylonitrile	ug/L	20.0 U	100	100	88.1	74.3	88	74	42-165	17	30	
Benzene	ug/L	179	100	100	288	262	110	83	67-119	10	30	
Bromochloromethane	ug/L	5.0 U	100	100	98.8	83.7	99	84	64-124	17	30	
Bromodichloromethane	ug/L	5.0 U	100	100	88.3	79.2	88	79	67-126	11	30	
Bromoform	ug/L	5.0 U	100	100	77.3	71.3	77	71	43-114	8	30	
Bromomethane	ug/L	5.0 U	100	100	85.5	86.5	85	86	10-164	1	30	CL
Carbon disulfide	ug/L	5.0 U	100	100	88.4	83.2	88	83	37-135	6	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	88.7	78.9	89	79	60-137	12	30	
Chlorobenzene	ug/L	5.0 U	100	100	88.4	82.6	88	83	68-119	7	30	
Chloroethane	ug/L	5.0 U	100	100	108	102	108	102	54-169	6	30	
Chloroform	ug/L	5.0 U	100	100	88.4	81.6	88	82	69-113	8	30	
Chloromethane	ug/L	5.0 U	100	100	86.0	83.8	86	84	43-159	3	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	80.7	77.0	81	77	65-121	5	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	86.2	76.9	86	77	61-120	11	30	
Dibromochloromethane	ug/L	5.0 U	100	100	85.6	78.8	86	79	56-121	8	30	
Dibromomethane	ug/L	5.0 U	100	100	86.9	76.7	87	77	56-133	13	30	
Ethylbenzene	ug/L	9.2	100	100	93.8	89.5	85	80	69-127	5	30	
Iodomethane	ug/L	250 U	100	100	43.0J	48.9J	43	49	10-152		30	CL
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	89.7	82.4	90	82	70-130	8	30	
Methylene Chloride	ug/L	5.0 U	100	100	94.1	84.7	94	85	49-144	10	30	
Naphthalene	ug/L	1420	100	100	1640	1550	221	126	60-136	6	30	MH
Styrene	ug/L	18.9	100	100	108	100	89	82	65-120	7	30	
Tetrachloroethene	ug/L	5.0 U	100	100	90.2	86.4	90	86	64-123	4	30	
Toluene	ug/L	61.7	100	100	154	144	92	83	70-130	6	30	
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	92.1	84.8	92	85	66-119	8	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	82.1	77.8	82	78	52-117	5	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	83.5	75.1	84	75	13-100	11	30	
Trichloroethene	ug/L	5.0 U	100	100	94.1	86.2	94	86	63-125	9	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	114	112	114	112	43-186	1	30	
Vinyl acetate	ug/L	50.0 U	100	100	97.9	95.2	98	95	35-150	3	30	
Vinyl chloride	ug/L	5.0 U	100	100	110	109	110	109	60-133	1	30	
Xylene (Total)	ug/L	144	300	300	413	388	90	81	69-128	6	30	
1,2-Dichloroethane-d4 (S)	%.						103	101	80-120			
4-Bromofluorobenzene (S)	%.						96	96	78-122			
Dibromofluoromethane (S)	%.						103	102	80-120			
Toluene-d8 (S)	%.						99	96	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.: 30286834

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.
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.: 30286834

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30286834001	**Trip Blanks**	EPA 8260B	337215		
30286834002	**C043-PZM048**	EPA 8260B	337153		
30286834003	**C044-PZM048**	EPA 8260B	337215		
30286834004	**C045-PZM047**	EPA 8260B	337153		
30286834005	**C046-PZM047**	EPA 8260B	337215		
30286834006	**C047-PZM046**	EPA 8260B	337215		
30286834007	**C048-PZM044**	EPA 8260B	337215		

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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-1-2

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# : 30286834

30286834

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 Chl	Pace Project No./ Lab I.D.
1	Trip Blanks	WT	G			3/29/19	—		2				X					Y	X		001
2	C043-PZM048	WT	G				844		3				X					Y	X		002
3	C044-PZM048	WT	G				859		3				X					Y	X		003
4	C045-PZM047	WT	G				913		3				X					Y	X		004
5	C046-PZM047	WT	G				935		3				X					Y	X		005
6	C047-PZM046	WT	G				951		3				X					Y	X		006
7	C048-PZM044	WT	G				1004		3				X					Y	X		007
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
No data pkg	[signature]	3/29/19	1530	[signature] Pace	3/29/19	1556
	[signature] Pace	3/29/19	1945	[signature]	329-19	1845
	RDS	329-19	2230	[signature] PACE	03/29/19	2230

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lisa Perry
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/29/19

*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 # # 30286834

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label JW
LIMS Login OB

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 2.5 °C Correction Factor: 0 °C Final Temp: 2.5 °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: 03/30/19 JW3
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 JW3 / Date/time of preservation / Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad 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

April 10, 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.: 30287043

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2019. 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.: 30287043

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.: 30287043

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30287043001	**Trip Blank**	Water	04/01/19 00:01	04/01/19 22:35
30287043002	**CO63-PZM007**	Water	04/01/19 09:45	04/01/19 22:35
30287043003	**CO64-PZM006**	Water	04/01/19 10:05	04/01/19 22:35
30287043004	**CO65-PZM005**	Water	04/01/19 10:30	04/01/19 22:35
30287043005	**CO66-PZM005**	Water	04/01/19 10:50	04/01/19 22:35
30287043006	**CO67-PZM006**	Water	04/01/19 11:15	04/01/19 22:35
30287043007	**CO68-PZM005**	Water	04/01/19 11:40	04/01/19 22:35
30287043008	**CO69-PZM005**	Water	04/01/19 12:05	04/01/19 22:35
30287043009	**CO70-PZM005**	Water	04/01/19 12:35	04/01/19 22:35
30287043010	**CO71-PZM006**	Water	04/01/19 13:00	04/01/19 22:35
30287043011	**CO72-PZM005**	Water	04/01/19 13:25	04/01/19 22:35
30287043012	**CO62-PZM007**	Water	04/01/19 13:50	04/01/19 22:35
30287043013	**CO61-PZM007**	Water	04/01/19 14:10	04/01/19 22:35

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30287043

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30287043001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30287043002	**CO63-PZM007**	EPA 8260B	LEL	53	PASI-PA
30287043003	**CO64-PZM006**	EPA 8260B	LEL	53	PASI-PA
30287043004	**CO65-PZM005**	EPA 8260B	LEL	53	PASI-PA
30287043005	**CO66-PZM005**	EPA 8260B	LEL	53	PASI-PA
30287043006	**CO67-PZM006**	EPA 8260B	LEL	53	PASI-PA
30287043007	**CO68-PZM005**	EPA 8260B	LEL	53	PASI-PA
30287043008	**CO69-PZM005**	EPA 8260B	LEL	53	PASI-PA
30287043009	**CO70-PZM005**	EPA 8260B	LEL	53	PASI-PA
30287043010	**CO71-PZM006**	EPA 8260B	LEL	53	PASI-PA
30287043011	**CO72-PZM005**	EPA 8260B	LEL	53	PASI-PA
30287043012	**CO62-PZM007**	EPA 8260B	LEL	53	PASI-PA
30287043013	**CO61-PZM007**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: Trip Blank **Lab ID: 30287043001** Collected: 04/01/19 00:01 Received: 04/01/19 22:35 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		04/06/19 16:06	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 16:06	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 16:06	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 16:06	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/06/19 16:06	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 16:06	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/06/19 16:06	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		04/06/19 16:06	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 16:06	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/06/19 16:06	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 16:06	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/06/19 16:06	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 16:06	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		04/06/19 16:06	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		04/06/19 16:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		04/06/19 16:06	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		04/06/19 16:06	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/06/19 16:06	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		04/06/19 16:06	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 16:06	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/06/19 16:06	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 16:06	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/06/19 16:06	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 16:06	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 16:06	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/06/19 16:06	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/06/19 16:06	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/06/19 16:06	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/06/19 16:06	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/06/19 16:06	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/06/19 16:06	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 16:06	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		04/06/19 16:06	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/06/19 16:06	1634-04-4	
Methylene Chloride	**1.1**	ug/L	1.0	0.77	1		04/06/19 16:06	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		04/06/19 16:06	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/06/19 16:06	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 16:06	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		04/06/19 16:06	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/06/19 16:06	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 16:06	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		04/06/19 16:06	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 16:06	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		04/06/19 16:06	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/06/19 16:06	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 16:06	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: Trip Blank **Lab ID: 30287043001** Collected: 04/01/19 00:01 Received: 04/01/19 22:35 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		04/06/19 16:06	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/06/19 16:06	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		04/06/19 16:06	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		04/06/19 16:06	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		1		04/06/19 16:06	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		04/06/19 16:06	2037-26-5	
Dibromofluoromethane (S)	104	%.	80-120		1		04/06/19 16:06	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO63-PZM007 **Lab ID: 30287043002** Collected: 04/01/19 09:45 Received: 04/01/19 22:35 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		04/06/19 21:56	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 21:56	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 21:56	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 21:56	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/06/19 21:56	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 21:56	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/06/19 21:56	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/06/19 21:56	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 21:56	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/06/19 21:56	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 21:56	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 21:56	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 21:56	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/06/19 21:56	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/06/19 21:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/06/19 21:56	108-10-1	
Acetone	**19.5J**	ug/L	50.0	14.2	5		04/06/19 21:56	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/06/19 21:56	107-13-1	
Benzene	**360**	ug/L	5.0	1.2	5		04/06/19 21:56	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 21:56	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 21:56	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 21:56	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/06/19 21:56	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 21:56	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 21:56	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/06/19 21:56	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/06/19 21:56	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/06/19 21:56	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/06/19 21:56	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 21:56	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 21:56	74-95-3	
Ethylbenzene	**15.4**	ug/L	5.0	1.6	5		04/06/19 21:56	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/06/19 21:56	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 21:56	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		04/06/19 21:56	75-09-2	
Naphthalene	**3280**	ug/L	100	41.0	50		04/06/19 17:33	91-20-3	
Styrene	**35.9**	ug/L	5.0	0.85	5		04/06/19 21:56	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 21:56	127-18-4	
Toluene	**145**	ug/L	5.0	1.5	5		04/06/19 21:56	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 21:56	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 21:56	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/06/19 21:56	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 21:56	75-01-4	
Xylene (Total)	**277**	ug/L	15.0	3.9	5		04/06/19 21:56	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/06/19 21:56	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 21:56	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO63-PZM007 **Lab ID: 30287043002** Collected: 04/01/19 09:45 Received: 04/01/19 22:35 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		04/06/19 21:56	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/06/19 21:56	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/06/19 21:56	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		5		04/06/19 21:56	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		5		04/06/19 21:56	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		04/06/19 21:56	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		5		04/06/19 21:56	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO64-PZM006 **Lab ID: 30287043003** Collected: 04/01/19 10:05 Received: 04/01/19 22:35 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		04/06/19 22:20	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 22:20	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 22:20	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 22:20	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/06/19 22:20	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 22:20	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/06/19 22:20	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/06/19 22:20	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 22:20	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/06/19 22:20	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 22:20	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 22:20	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 22:20	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/06/19 22:20	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/06/19 22:20	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/06/19 22:20	108-10-1	
Acetone	**17.5J**	ug/L	50.0	14.2	5		04/06/19 22:20	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/06/19 22:20	107-13-1	
Benzene	**361**	ug/L	5.0	1.2	5		04/06/19 22:20	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 22:20	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 22:20	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 22:20	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/06/19 22:20	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 22:20	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 22:20	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/06/19 22:20	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/06/19 22:20	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/06/19 22:20	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/06/19 22:20	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 22:20	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 22:20	74-95-3	
Ethylbenzene	**17.6**	ug/L	5.0	1.6	5		04/06/19 22:20	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/06/19 22:20	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 22:20	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		04/06/19 22:20	75-09-2	
Naphthalene	**3380**	ug/L	100	41.0	50		04/06/19 17:58	91-20-3	
Styrene	**45.8**	ug/L	5.0	0.85	5		04/06/19 22:20	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 22:20	127-18-4	
Toluene	**153**	ug/L	5.0	1.5	5		04/06/19 22:20	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 22:20	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 22:20	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/06/19 22:20	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 22:20	75-01-4	
Xylene (Total)	**298**	ug/L	15.0	3.9	5		04/06/19 22:20	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/06/19 22:20	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 22:20	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO64-PZM006 **Lab ID: 30287043003** Collected: 04/01/19 10:05 Received: 04/01/19 22:35 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		04/06/19 22:20	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/06/19 22:20	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/06/19 22:20	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		04/06/19 22:20	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		5		04/06/19 22:20	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		04/06/19 22:20	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		5		04/06/19 22:20	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO65-PZM005 **Lab ID: 30287043004** Collected: 04/01/19 10:30 Received: 04/01/19 22:35 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		04/06/19 22:46	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 22:46	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 22:46	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 22:46	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/06/19 22:46	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 22:46	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/06/19 22:46	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/06/19 22:46	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 22:46	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/06/19 22:46	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 22:46	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 22:46	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 22:46	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/06/19 22:46	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/06/19 22:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/06/19 22:46	108-10-1	
Acetone	**20.2J**	ug/L	50.0	14.2	5		04/06/19 22:46	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/06/19 22:46	107-13-1	
Benzene	**359**	ug/L	5.0	1.2	5		04/06/19 22:46	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 22:46	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 22:46	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 22:46	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/06/19 22:46	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 22:46	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 22:46	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/06/19 22:46	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/06/19 22:46	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/06/19 22:46	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/06/19 22:46	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 22:46	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 22:46	74-95-3	
Ethylbenzene	**16.0**	ug/L	5.0	1.6	5		04/06/19 22:46	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/06/19 22:46	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 22:46	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		04/06/19 22:46	75-09-2	
Naphthalene	**3440**	ug/L	102	41.8	51		04/06/19 18:23	91-20-3	
Styrene	**46.8**	ug/L	5.0	0.85	5		04/06/19 22:46	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 22:46	127-18-4	
Toluene	**150**	ug/L	5.0	1.5	5		04/06/19 22:46	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 22:46	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 22:46	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/06/19 22:46	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 22:46	75-01-4	
Xylene (Total)	**296**	ug/L	15.0	3.9	5		04/06/19 22:46	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/06/19 22:46	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 22:46	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO65-PZM005 **Lab ID: 30287043004** Collected: 04/01/19 10:30 Received: 04/01/19 22:35 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		04/06/19 22:46	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/06/19 22:46	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/06/19 22:46	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		04/06/19 22:46	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	80-120		5		04/06/19 22:46	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		5		04/06/19 22:46	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120		5		04/06/19 22:46	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO66-PZM005 **Lab ID: 30287043005** Collected: 04/01/19 10:50 Received: 04/01/19 22:35 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		04/06/19 17:46	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 17:46	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 17:46	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 17:46	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/06/19 17:46	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 17:46	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/06/19 17:46	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/06/19 17:46	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 17:46	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/06/19 17:46	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 17:46	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 17:46	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 17:46	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/06/19 17:46	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/06/19 17:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/06/19 17:46	108-10-1	
Acetone	**23.7J**	ug/L	50.0	14.2	5		04/06/19 17:46	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/06/19 17:46	107-13-1	
Benzene	**179**	ug/L	5.0	1.2	5		04/06/19 17:46	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 17:46	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 17:46	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 17:46	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/06/19 17:46	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 17:46	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 17:46	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/06/19 17:46	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/06/19 17:46	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/06/19 17:46	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/06/19 17:46	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 17:46	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 17:46	74-95-3	
Ethylbenzene	**9.2**	ug/L	5.0	1.6	5		04/06/19 17:46	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/06/19 17:46	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 17:46	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		04/06/19 17:46	75-09-2	
Naphthalene	**1420**	ug/L	10.0	4.1	5		04/06/19 17:46	91-20-3	MH
Styrene	**18.9**	ug/L	5.0	0.85	5		04/06/19 17:46	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 17:46	127-18-4	
Toluene	**61.7**	ug/L	5.0	1.5	5		04/06/19 17:46	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 17:46	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 17:46	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/06/19 17:46	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 17:46	75-01-4	
Xylene (Total)	**144**	ug/L	15.0	3.9	5		04/06/19 17:46	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/06/19 17:46	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 17:46	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO66-PZM005 **Lab ID: 30287043005** Collected: 04/01/19 10:50 Received: 04/01/19 22:35 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		04/06/19 17:46	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/06/19 17:46	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/06/19 17:46	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%.	78-122		5		04/06/19 17:46	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	80-120		5		04/06/19 17:46	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		04/06/19 17:46	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		5		04/06/19 17:46	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO67-PZM006 **Lab ID: 30287043006** Collected: 04/01/19 11:15 Received: 04/01/19 22:35 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		04/06/19 16:56	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 16:56	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 16:56	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 16:56	79-00-5	
1,1-Dichloroethane	**0.38J**	ug/L	1.0	0.19	1		04/06/19 16:56	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 16:56	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/06/19 16:56	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/06/19 16:56	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 16:56	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/06/19 16:56	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 16:56	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/06/19 16:56	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 16:56	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/06/19 16:56	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/06/19 16:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/06/19 16:56	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		04/06/19 16:56	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/06/19 16:56	107-13-1	
Benzene	**131**	ug/L	1.0	0.24	1		04/06/19 16:56	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 16:56	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/06/19 16:56	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 16:56	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/06/19 16:56	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 16:56	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 16:56	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/06/19 16:56	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/06/19 16:56	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/06/19 16:56	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/06/19 16:56	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/06/19 16:56	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/06/19 16:56	74-95-3	
Ethylbenzene	**5.2**	ug/L	1.0	0.31	1		04/06/19 16:56	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/06/19 16:56	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/06/19 16:56	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/06/19 16:56	75-09-2	
Naphthalene	**812**	ug/L	10.0	4.1	5		04/08/19 22:56	91-20-3	
Styrene	**16.1**	ug/L	1.0	0.17	1		04/06/19 16:56	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 16:56	127-18-4	
Toluene	**44.4**	ug/L	1.0	0.30	1		04/06/19 16:56	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/06/19 16:56	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 16:56	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/06/19 16:56	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 16:56	75-01-4	
Xylene (Total)	**92.7**	ug/L	3.0	0.78	1		04/06/19 16:56	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/06/19 16:56	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 16:56	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO67-PZM006 **Lab ID: 30287043006** Collected: 04/01/19 11:15 Received: 04/01/19 22:35 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		04/06/19 16:56	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/06/19 16:56	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/06/19 16:56	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%.	78-122		1		04/06/19 16:56	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	80-120		1		04/06/19 16:56	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		04/06/19 16:56	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		04/06/19 16:56	1868-53-7	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO68-PZM005 **Lab ID: 30287043007** Collected: 04/01/19 11:40 Received: 04/01/19 22:35 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		04/06/19 21:31	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 21:31	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 21:31	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 21:31	79-00-5	
1,1-Dichloroethane	**0.41J**	ug/L	1.0	0.19	1		04/06/19 21:31	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 21:31	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/06/19 21:31	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/06/19 21:31	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 21:31	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/06/19 21:31	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 21:31	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/06/19 21:31	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 21:31	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/06/19 21:31	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/06/19 21:31	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/06/19 21:31	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		04/06/19 21:31	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/06/19 21:31	107-13-1	
Benzene	**249**	ug/L	1.0	0.24	1		04/06/19 21:31	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 21:31	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/06/19 21:31	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 21:31	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/06/19 21:31	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 21:31	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 21:31	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/06/19 21:31	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/06/19 21:31	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/06/19 21:31	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/06/19 21:31	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/06/19 21:31	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/06/19 21:31	74-95-3	
Ethylbenzene	**11.4**	ug/L	1.0	0.31	1		04/06/19 21:31	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/06/19 21:31	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/06/19 21:31	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/06/19 21:31	75-09-2	
Naphthalene	**2890**	ug/L	40.0	16.4	20		04/06/19 17:08	91-20-3	
Styrene	**47.6**	ug/L	1.0	0.17	1		04/06/19 21:31	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 21:31	127-18-4	
Toluene	**114**	ug/L	1.0	0.30	1		04/06/19 21:31	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/06/19 21:31	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 21:31	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/06/19 21:31	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 21:31	75-01-4	
Xylene (Total)	**224**	ug/L	3.0	0.78	1		04/06/19 21:31	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/06/19 21:31	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 21:31	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO68-PZM005 **Lab ID: 30287043007** Collected: 04/01/19 11:40 Received: 04/01/19 22:35 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		04/06/19 21:31	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/06/19 21:31	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/06/19 21:31	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		1		04/06/19 21:31	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		1		04/06/19 21:31	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		04/06/19 21:31	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		1		04/06/19 21:31	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO69-PZM005 **Lab ID: 30287043008** Collected: 04/01/19 12:05 Received: 04/01/19 22:35 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		04/06/19 20:16	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 20:16	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 20:16	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 20:16	79-00-5	
1,1-Dichloroethane	**0.23J**	ug/L	1.0	0.19	1		04/06/19 20:16	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 20:16	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/06/19 20:16	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/06/19 20:16	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 20:16	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/06/19 20:16	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 20:16	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/06/19 20:16	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 20:16	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/06/19 20:16	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/06/19 20:16	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/06/19 20:16	108-10-1	
Acetone	**8.7J**	ug/L	10.0	2.8	1		04/06/19 20:16	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/06/19 20:16	107-13-1	
Benzene	**80.6**	ug/L	1.0	0.24	1		04/06/19 20:16	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 20:16	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/06/19 20:16	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 20:16	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/06/19 20:16	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 20:16	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 20:16	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/06/19 20:16	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/06/19 20:16	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/06/19 20:16	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/06/19 20:16	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/06/19 20:16	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/06/19 20:16	74-95-3	
Ethylbenzene	**1.4**	ug/L	1.0	0.31	1		04/06/19 20:16	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/06/19 20:16	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/06/19 20:16	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/06/19 20:16	75-09-2	
Naphthalene	**337**	ug/L	2.0	0.82	1		04/06/19 20:16	91-20-3	
Styrene	**6.9**	ug/L	1.0	0.17	1		04/06/19 20:16	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 20:16	127-18-4	
Toluene	**22.2**	ug/L	1.0	0.30	1		04/06/19 20:16	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/06/19 20:16	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 20:16	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/06/19 20:16	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 20:16	75-01-4	
Xylene (Total)	**30.1**	ug/L	3.0	0.78	1		04/06/19 20:16	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/06/19 20:16	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 20:16	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO69-PZM005 **Lab ID: 30287043008** Collected: 04/01/19 12:05 Received: 04/01/19 22:35 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		04/06/19 20:16	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/06/19 20:16	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/06/19 20:16	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		04/06/19 20:16	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	80-120		1		04/06/19 20:16	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		04/06/19 20:16	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		1		04/06/19 20:16	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO70-PZM005 **Lab ID: 30287043009** Collected: 04/01/19 12:35 Received: 04/01/19 22:35 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		04/06/19 20:41	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 20:41	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 20:41	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 20:41	79-00-5	
1,1-Dichloroethane	**0.56J**	ug/L	1.0	0.19	1		04/06/19 20:41	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 20:41	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/06/19 20:41	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/06/19 20:41	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 20:41	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/06/19 20:41	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 20:41	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/06/19 20:41	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 20:41	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/06/19 20:41	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/06/19 20:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/06/19 20:41	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		04/06/19 20:41	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/06/19 20:41	107-13-1	
Benzene	**159**	ug/L	1.0	0.24	1		04/06/19 20:41	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 20:41	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/06/19 20:41	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 20:41	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/06/19 20:41	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 20:41	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 20:41	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/06/19 20:41	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/06/19 20:41	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/06/19 20:41	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/06/19 20:41	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/06/19 20:41	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/06/19 20:41	74-95-3	
Ethylbenzene	**6.8**	ug/L	1.0	0.31	1		04/06/19 20:41	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/06/19 20:41	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/06/19 20:41	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/06/19 20:41	75-09-2	
Naphthalene	**1200**	ug/L	20.0	8.2	10		04/06/19 16:18	91-20-3	
Styrene	**18.2**	ug/L	1.0	0.17	1		04/06/19 20:41	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 20:41	127-18-4	
Toluene	**55.8**	ug/L	1.0	0.30	1		04/06/19 20:41	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/06/19 20:41	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 20:41	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/06/19 20:41	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 20:41	75-01-4	
Xylene (Total)	**122**	ug/L	3.0	0.78	1		04/06/19 20:41	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/06/19 20:41	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 20:41	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO70-PZM005 **Lab ID: 30287043009** Collected: 04/01/19 12:35 Received: 04/01/19 22:35 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		04/06/19 20:41	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/06/19 20:41	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/06/19 20:41	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		04/06/19 20:41	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		04/06/19 20:41	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		04/06/19 20:41	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		1		04/06/19 20:41	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO71-PZM006 **Lab ID: 30287043010** Collected: 04/01/19 13:00 Received: 04/01/19 22:35 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		04/06/19 19:01	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 19:01	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 19:01	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 19:01	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/06/19 19:01	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 19:01	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/06/19 19:01	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/06/19 19:01	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 19:01	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/06/19 19:01	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 19:01	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 19:01	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 19:01	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/06/19 19:01	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/06/19 19:01	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/06/19 19:01	108-10-1	
Acetone	**19.1J**	ug/L	50.0	14.2	5		04/06/19 19:01	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/06/19 19:01	107-13-1	
Benzene	**148**	ug/L	5.0	1.2	5		04/06/19 19:01	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 19:01	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 19:01	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 19:01	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/06/19 19:01	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 19:01	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 19:01	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/06/19 19:01	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/06/19 19:01	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/06/19 19:01	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/06/19 19:01	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 19:01	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 19:01	74-95-3	
Ethylbenzene	**6.3**	ug/L	5.0	1.6	5		04/06/19 19:01	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/06/19 19:01	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 19:01	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		04/06/19 19:01	75-09-2	
Naphthalene	**719**	ug/L	10.0	4.1	5		04/06/19 19:01	91-20-3	
Styrene	**19.8**	ug/L	5.0	0.85	5		04/06/19 19:01	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 19:01	127-18-4	
Toluene	**50.9**	ug/L	5.0	1.5	5		04/06/19 19:01	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 19:01	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 19:01	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/06/19 19:01	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 19:01	75-01-4	
Xylene (Total)	**114**	ug/L	15.0	3.9	5		04/06/19 19:01	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/06/19 19:01	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 19:01	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO71-PZM006 **Lab ID: 30287043010** Collected: 04/01/19 13:00 Received: 04/01/19 22:35 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		04/06/19 19:01	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/06/19 19:01	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/06/19 19:01	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		04/06/19 19:01	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		5		04/06/19 19:01	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		04/06/19 19:01	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		04/06/19 19:01	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO72-PZM005 **Lab ID: 30287043011** Collected: 04/01/19 13:25 Received: 04/01/19 22:35 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		04/06/19 19:26	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 19:26	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 19:26	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 19:26	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		04/06/19 19:26	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 19:26	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		04/06/19 19:26	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		04/06/19 19:26	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 19:26	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		04/06/19 19:26	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 19:26	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 19:26	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		04/06/19 19:26	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		04/06/19 19:26	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		04/06/19 19:26	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		04/06/19 19:26	108-10-1	
Acetone	**22.0J**	ug/L	50.0	14.2	5		04/06/19 19:26	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		04/06/19 19:26	107-13-1	
Benzene	**200**	ug/L	5.0	1.2	5		04/06/19 19:26	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 19:26	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 19:26	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 19:26	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		04/06/19 19:26	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 19:26	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		04/06/19 19:26	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		04/06/19 19:26	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		04/06/19 19:26	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		04/06/19 19:26	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		04/06/19 19:26	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 19:26	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 19:26	74-95-3	
Ethylbenzene	**6.9**	ug/L	5.0	1.6	5		04/06/19 19:26	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		04/06/19 19:26	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 19:26	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		04/06/19 19:26	75-09-2	
Naphthalene	**1590**	ug/L	10.0	4.1	5		04/06/19 19:26	91-20-3	
Styrene	**36.0**	ug/L	5.0	0.85	5		04/06/19 19:26	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 19:26	127-18-4	
Toluene	**81.3**	ug/L	5.0	1.5	5		04/06/19 19:26	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		04/06/19 19:26	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		04/06/19 19:26	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		04/06/19 19:26	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		04/06/19 19:26	75-01-4	
Xylene (Total)	**147**	ug/L	15.0	3.9	5		04/06/19 19:26	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		04/06/19 19:26	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		04/06/19 19:26	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO72-PZM005 **Lab ID: 30287043011** Collected: 04/01/19 13:25 Received: 04/01/19 22:35 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		04/06/19 19:26	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		04/06/19 19:26	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		04/06/19 19:26	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	78-122		5		04/06/19 19:26	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		5		04/06/19 19:26	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		5		04/06/19 19:26	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		04/06/19 19:26	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO62-PZM007 **Lab ID: 30287043012** Collected: 04/01/19 13:50 Received: 04/01/19 22:35 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		04/06/19 17:21	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 17:21	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 17:21	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 17:21	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		04/06/19 17:21	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 17:21	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/06/19 17:21	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/06/19 17:21	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 17:21	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/06/19 17:21	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 17:21	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/06/19 17:21	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 17:21	106-46-7	
2-Butanone (MEK)	**47.1**	ug/L	10.0	2.1	1		04/06/19 17:21	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/06/19 17:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/06/19 17:21	108-10-1	
Acetone	**61.1**	ug/L	10.0	2.8	1		04/06/19 17:21	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/06/19 17:21	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		04/06/19 17:21	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 17:21	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/06/19 17:21	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 17:21	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/06/19 17:21	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 17:21	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 17:21	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/06/19 17:21	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/06/19 17:21	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/06/19 17:21	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/06/19 17:21	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/06/19 17:21	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/06/19 17:21	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 17:21	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/06/19 17:21	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/06/19 17:21	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/06/19 17:21	75-09-2	
Naphthalene	**12.9**	ug/L	2.0	0.82	1		04/06/19 17:21	91-20-3	C8
Styrene	**1.0 U**	ug/L	1.0	0.17	1		04/06/19 17:21	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 17:21	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		04/06/19 17:21	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/06/19 17:21	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 17:21	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/06/19 17:21	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 17:21	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		04/06/19 17:21	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/06/19 17:21	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 17:21	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO62-PZM007 **Lab ID: 30287043012** Collected: 04/01/19 13:50 Received: 04/01/19 22:35 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		04/06/19 17:21	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/06/19 17:21	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/06/19 17:21	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		04/06/19 17:21	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		1		04/06/19 17:21	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		04/06/19 17:21	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		1		04/06/19 17:21	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO61-PZM007 **Lab ID: 30287043013** Collected: 04/01/19 14:10 Received: 04/01/19 22:35 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		04/06/19 21:06	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 21:06	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 21:06	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 21:06	79-00-5	
1,1-Dichloroethane	**0.32J**	ug/L	1.0	0.19	1		04/06/19 21:06	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 21:06	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		04/06/19 21:06	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		04/06/19 21:06	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 21:06	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		04/06/19 21:06	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 21:06	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		04/06/19 21:06	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		04/06/19 21:06	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		04/06/19 21:06	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		04/06/19 21:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		04/06/19 21:06	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		04/06/19 21:06	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		04/06/19 21:06	107-13-1	
Benzene	**337**	ug/L	20.0	4.8	20		04/06/19 16:43	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 21:06	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		04/06/19 21:06	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 21:06	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		04/06/19 21:06	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 21:06	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		04/06/19 21:06	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		04/06/19 21:06	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		04/06/19 21:06	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		04/06/19 21:06	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		04/06/19 21:06	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		04/06/19 21:06	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		04/06/19 21:06	74-95-3	
Ethylbenzene	**16.1**	ug/L	1.0	0.31	1		04/06/19 21:06	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		04/06/19 21:06	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		04/06/19 21:06	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		04/06/19 21:06	75-09-2	
Naphthalene	**1910**	ug/L	40.0	16.4	20		04/06/19 16:43	91-20-3	
Styrene	**23.3**	ug/L	1.0	0.17	1		04/06/19 21:06	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		04/06/19 21:06	127-18-4	
Toluene	**152**	ug/L	1.0	0.30	1		04/06/19 21:06	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		04/06/19 21:06	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		04/06/19 21:06	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		04/06/19 21:06	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		04/06/19 21:06	75-01-4	
Xylene (Total)	**240**	ug/L	3.0	0.78	1		04/06/19 21:06	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		04/06/19 21:06	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		04/06/19 21:06	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30287043

Sample: CO61-PZM007 **Lab ID: 30287043013** Collected: 04/01/19 14:10 Received: 04/01/19 22:35 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		04/06/19 21:06	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		04/06/19 21:06	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		04/06/19 21:06	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	78-122		1		04/06/19 21:06	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		1		04/06/19 21:06	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		04/06/19 21:06	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		1		04/06/19 21:06	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30287043

QC Batch: 337215 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30287043001, 30287043002, 30287043003, 30287043004, 30287043005, 30287043006, 30287043007, 30287043008, 30287043009, 30287043010, 30287043011, 30287043012, 30287043013

METHOD BLANK: 1641532 Matrix: Water
Associated Lab Samples: 30287043001, 30287043002, 30287043003, 30287043004, 30287043005, 30287043006, 30287043007, 30287043008, 30287043009, 30287043010, 30287043011, 30287043012, 30287043013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	04/06/19 15:15	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	04/06/19 15:15	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	04/06/19 15:15	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	04/06/19 15:15	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	04/06/19 15:15	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	04/06/19 15:15	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	04/06/19 15:15	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	04/06/19 15:15	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	04/06/19 15:15	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	04/06/19 15:15	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	04/06/19 15:15	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	04/06/19 15:15	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	04/06/19 15:15	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	04/06/19 15:15	
2-Hexanone	ug/L	10.0 U	10.0	0.66	04/06/19 15:15	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	04/06/19 15:15	
Acetone	ug/L	10.0 U	10.0	2.8	04/06/19 15:15	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	04/06/19 15:15	
Benzene	ug/L	1.0 U	1.0	0.24	04/06/19 15:15	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	04/06/19 15:15	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	04/06/19 15:15	
Bromoform	ug/L	1.0 U	1.0	0.32	04/06/19 15:15	
Bromomethane	ug/L	1.0 U	1.0	0.49	04/06/19 15:15	CL
Carbon disulfide	ug/L	1.0 U	1.0	0.32	04/06/19 15:15	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	04/06/19 15:15	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	04/06/19 15:15	
Chloroethane	ug/L	1.0 U	1.0	0.55	04/06/19 15:15	
Chloroform	ug/L	1.0 U	1.0	0.30	04/06/19 15:15	
Chloromethane	ug/L	1.0 U	1.0	0.68	04/06/19 15:15	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	04/06/19 15:15	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	04/06/19 15:15	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	04/06/19 15:15	
Dibromomethane	ug/L	1.0 U	1.0	0.40	04/06/19 15:15	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	04/06/19 15:15	
Iodomethane	ug/L	50.0 U	50.0	0.67	04/06/19 15:15	CL
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	04/06/19 15:15	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	04/06/19 15:15	
Naphthalene	ug/L	2.0 U	2.0	0.82	04/06/19 15:15	
Styrene	ug/L	1.0 U	1.0	0.17	04/06/19 15:15	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	04/06/19 15:15	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30287043

METHOD BLANK: 1641532 Matrix: Water

Associated Lab Samples: 30287043001, 30287043002, 30287043003, 30287043004, 30287043005, 30287043006, 30287043007, 30287043008, 30287043009, 30287043010, 30287043011, 30287043012, 30287043013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.30	04/06/19 15:15	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	04/06/19 15:15	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	04/06/19 15:15	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	04/06/19 15:15	
Trichloroethene	ug/L	1.0 U	1.0	0.39	04/06/19 15:15	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	04/06/19 15:15	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	04/06/19 15:15	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	04/06/19 15:15	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	04/06/19 15:15	
1,2-Dichloroethane-d4 (S)	%.	102	80-120		04/06/19 15:15	
4-Bromofluorobenzene (S)	%.	95	78-122		04/06/19 15:15	
Dibromofluoromethane (S)	%.	96	80-120		04/06/19 15:15	
Toluene-d8 (S)	%.	97	80-120		04/06/19 15:15	

LABORATORY CONTROL SAMPLE: 1641533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	16.9	84	70-130	
1,1,1-Trichloroethane	ug/L	20	18.1	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.4	92	70-130	
1,1,2-Trichloroethane	ug/L	20	18.3	91	70-130	
1,1-Dichloroethane	ug/L	20	17.5	88	68-121	
1,1-Dichloroethene	ug/L	20	17.8	89	63-129	
1,2,3-Trichloropropane	ug/L	20	18.9	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.1	90	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	18.9	95	70-130	
1,2-Dichlorobenzene	ug/L	20	18.6	93	70-130	
1,2-Dichloroethane	ug/L	20	18.0	90	67-117	
1,2-Dichloropropane	ug/L	20	16.7	83	69-121	
1,4-Dichlorobenzene	ug/L	20	17.4	87	70-130	
2-Butanone (MEK)	ug/L	20	19.2	96	59-128	
2-Hexanone	ug/L	20	19.9	99	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.8	99	63-126	
Acetone	ug/L	20	19.9	100	37-150	
Acrylonitrile	ug/L	20	17.5	88	62-128	
Benzene	ug/L	20	18.8	94	70-130	
Bromochloromethane	ug/L	20	20.2	101	59-137	
Bromodichloromethane	ug/L	20	18.1	91	70-130	
Bromoform	ug/L	20	16.8	84	65-130	
Bromomethane	ug/L	20	16.7	83	45-148	CL
Carbon disulfide	ug/L	20	16.7	83	55-123	
Carbon tetrachloride	ug/L	20	18.2	91	69-126	
Chlorobenzene	ug/L	20	17.9	89	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30287043

LABORATORY CONTROL SAMPLE: 1641533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	19.6	98	68-146	
Chloroform	ug/L	20	18.2	91	69-116	
Chloromethane	ug/L	20	17.3	86	56-129	
cis-1,2-Dichloroethene	ug/L	20	16.6	83	66-118	
cis-1,3-Dichloropropene	ug/L	20	17.8	89	70-130	
Dibromochloromethane	ug/L	20	18.4	92	70-130	
Dibromomethane	ug/L	20	17.6	88	70-130	
Ethylbenzene	ug/L	20	17.6	88	70-130	
Iodomethane	ug/L	20	10.3J	51	10-175	CL
Methyl-tert-butyl ether	ug/L	20	19.3	97	70-130	
Methylene Chloride	ug/L	20	19.5	98	65-124	
Naphthalene	ug/L	20	18.8	94	69-135	
Styrene	ug/L	20	18.3	91	70-130	
Tetrachloroethene	ug/L	20	17.8	89	70-130	
Toluene	ug/L	20	18.1	91	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.9	90	64-123	
trans-1,3-Dichloropropene	ug/L	20	17.3	87	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	17.9	90	37-119	
Trichloroethene	ug/L	20	19.0	95	70-130	
Trichlorofluoromethane	ug/L	20	23.4	117	64-163	
Vinyl acetate	ug/L	20	20.5	103	45-129	
Vinyl chloride	ug/L	20	21.6	108	70-130	
Xylene (Total)	ug/L	60	53.3	89	70-130	
1,2-Dichloroethane-d4 (S)	%.			104	80-120	
4-Bromofluorobenzene (S)	%.			96	78-122	
Dibromofluoromethane (S)	%.			101	80-120	
Toluene-d8 (S)	%.			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1641534 1641535

Parameter	Units	30287043005 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	5.0 U	100	100	81.4	77.7	81	78	52-123	5	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	93.1	85.9	93	86	67-127	8	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	86.3	80.0	86	80	55-118	8	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	88.3	82.9	88	83	60-117	6	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	92.7	82.7	93	83	68-118	11	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	93.2	83.3	93	83	62-126	11	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	89.5	84.1	89	84	56-129	6	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	85.5	83.9	85	84	46-130	2	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	88.7	81.9	89	82	69-124	8	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	89.8	82.0	90	82	66-116	9	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	88.5	79.7	88	80	67-117	10	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	86.6	79.1	87	79	61-128	9	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: COA IM GW Sampling
Pace Project No.: 30287043

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1641534 1641535

Parameter	Units	30287043005 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	5.0 U	100	100	88.1	80.0	88	80	68-116	10	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	86.4	84.0	86	84	63-175	3	30	
2-Hexanone	ug/L	50.0 U	100	100	92.9	88.0	93	88	65-151	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	95.1	90.8	95	91	66-149	5	30	
Acetone	ug/L	23.7J	100	100	105	101	81	77	10-175	4	30	
Acrylonitrile	ug/L	20.0 U	100	100	88.1	74.3	88	74	42-165	17	30	
Benzene	ug/L	179	100	100	288	262	110	83	67-119	10	30	
Bromochloromethane	ug/L	5.0 U	100	100	98.8	83.7	99	84	64-124	17	30	
Bromodichloromethane	ug/L	5.0 U	100	100	88.3	79.2	88	79	67-126	11	30	
Bromoform	ug/L	5.0 U	100	100	77.3	71.3	77	71	43-114	8	30	
Bromomethane	ug/L	5.0 U	100	100	85.5	86.5	85	86	10-164	1	30	CL
Carbon disulfide	ug/L	5.0 U	100	100	88.4	83.2	88	83	37-135	6	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	88.7	78.9	89	79	60-137	12	30	
Chlorobenzene	ug/L	5.0 U	100	100	88.4	82.6	88	83	68-119	7	30	
Chloroethane	ug/L	5.0 U	100	100	108	102	108	102	54-169	6	30	
Chloroform	ug/L	5.0 U	100	100	88.4	81.6	88	82	69-113	8	30	
Chloromethane	ug/L	5.0 U	100	100	86.0	83.8	86	84	43-159	3	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	80.7	77.0	81	77	65-121	5	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	86.2	76.9	86	77	61-120	11	30	
Dibromochloromethane	ug/L	5.0 U	100	100	85.6	78.8	86	79	56-121	8	30	
Dibromomethane	ug/L	5.0 U	100	100	86.9	76.7	87	77	56-133	13	30	
Ethylbenzene	ug/L	9.2	100	100	93.8	89.5	85	80	69-127	5	30	
Iodomethane	ug/L	250 U	100	100	43.0J	48.9J	43	49	10-152		30	CL
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	89.7	82.4	90	82	70-130	8	30	
Methylene Chloride	ug/L	5.0 U	100	100	94.1	84.7	94	85	49-144	10	30	
Naphthalene	ug/L	1420	100	100	1640	1550	221	126	60-136	6	30	MH
Styrene	ug/L	18.9	100	100	108	100	89	82	65-120	7	30	
Tetrachloroethene	ug/L	5.0 U	100	100	90.2	86.4	90	86	64-123	4	30	
Toluene	ug/L	61.7	100	100	154	144	92	83	70-130	6	30	
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	92.1	84.8	92	85	66-119	8	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	82.1	77.8	82	78	52-117	5	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	83.5	75.1	84	75	13-100	11	30	
Trichloroethene	ug/L	5.0 U	100	100	94.1	86.2	94	86	63-125	9	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	114	112	114	112	43-186	1	30	
Vinyl acetate	ug/L	50.0 U	100	100	97.9	95.2	98	95	35-150	3	30	
Vinyl chloride	ug/L	5.0 U	100	100	110	109	110	109	60-133	1	30	
Xylene (Total)	ug/L	144	300	300	413	388	90	81	69-128	6	30	
1,2-Dichloroethane-d4 (S)	%.						103	101	80-120			
4-Bromofluorobenzene (S)	%.						96	96	78-122			
Dibromofluoromethane (S)	%.						103	102	80-120			
Toluene-d8 (S)	%.						99	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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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30287043

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.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

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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.: 30287043

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30287043001	**Trip Blank**	EPA 8260B	337215		
30287043002	**CO63-PZM007**	EPA 8260B	337215		
30287043003	**CO64-PZM006**	EPA 8260B	337215		
30287043004	**CO65-PZM005**	EPA 8260B	337215		
30287043005	**CO66-PZM005**	EPA 8260B	337215		
30287043006	**CO67-PZM006**	EPA 8260B	337215		
30287043007	**CO68-PZM005**	EPA 8260B	337215		
30287043008	**CO69-PZM005**	EPA 8260B	337215		
30287043009	**CO70-PZM005**	EPA 8260B	337215		
30287043010	**CO71-PZM006**	EPA 8260B	337215		
30287043011	**CO72-PZM005**	EPA 8260B	337215		
30287043012	**CO62-PZM007**	EPA 8260B	337215		
30287043013	**CO61-PZM007**	EPA 8260B	337215		

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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
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:	

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# : 30287043

30287043

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	Res	Pace Project No./ Lab I.D.
1	Trip Blank	WT				4/1/19			3				X				X		001
2	C063-PZM007	WT	G				0945		3				X				X		002
3	C064-PZM008	WT	G				1005		3				X				X		003
4	C069-PZM005	WT	G				1030		3				X				X		004
5	C066-PZM005	WT	G				1050		3				X				X		005
6	C067-PZM006	WT	G				1115		3				X				X		006
7	C068-PZM005	WT	G				1140		3				X				X		007
8	C069-PZM005	WT	G				1205		3				X				X		008
9	C070-PZM005	WT	G				1235		3				X				X		009
10	C071-PZM006	WT	G				1300		3				X				X		010
11	C072-PZM005	WT	G				1325		3				X				X		011
12	C062-PZM007	WT	G				1350		3				X				X		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] ATM	4/1/19	1500	[signature] Pace	4/1/19	1555	
	[signature] Pace	4/1/19	1935	RDS TAT	4/1/19	1945	
	RDS TAT	4/1/19	1935	[signature]	4/1/19	2235	0.4 Y N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Leandra M Glumac

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 04/01/19

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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30287043

Page: 2 of 2

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:		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	C061-PZM007	WT	G	4/1/19			1410		3				X						X		~~001~~ 013
2																					BM
3																					~~3~~ 4-2-19
4																					BM 4-2-19
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]	4/1/19	1500	David L. Hellegaun / Pace	4/1/19	1555				
	David L. Hellegaun / Pace	4/1/19	1935	RDS PACE	4-1-19	1945		Y		
	RDS PACE	4-1-19	2235	Ben Munton	4-1-19	2235	0.4	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Leandra M Glumac

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 04/01/19

*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 #: # 30287043

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label BLM
LIMS Login BLM

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 0.4 °C Correction Factor: 0 °C Final Temp: 0.4 °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: BLM 4-2-19
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: BLM / Date/time of preservation: / Lot # of added preservative:
Headspace in VOA Vials (>6mm):	✓			17. Both Trip Blank Vials have Headspace
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad 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, 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.: 30300120

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2019. 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.: 30300120

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
Florida: Cert E871149 SEKS WET
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.: 30300120

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30300120001	**Trip Blank**	Water	06/17/19 00:01	06/17/19 22:50
30300120002	**CO103-PZMxxx**	Water	06/17/19 09:22	06/17/19 22:50
30300120003	**CO104-PZMxxx**	Water	06/17/19 10:00	06/17/19 22:50
30300120004	**CO102-PZMxxx**	Water	06/17/19 11:07	06/17/19 22:50
30300120005	**CO30-PZM015**	Water	06/17/19 12:20	06/17/19 22:50
30300120006	**CO30-PZM060**	Water	06/17/19 12:55	06/17/19 22:50
30300120007	**CO93-PZMxxx**	Water	06/17/19 14:11	06/17/19 22:50

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30300120

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30300120001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30300120002	**CO103-PZMxxx**	EPA 8260B	LEL	53	PASI-PA
30300120003	**CO104-PZMxxx**	EPA 8260B	LEL	53	PASI-PA
30300120004	**CO102-PZMxxx**	EPA 8260B	LEL	53	PASI-PA
30300120005	**CO30-PZM015**	EPA 8260B	LEL	53	PASI-PA
30300120006	**CO30-PZM060**	EPA 8260B	LEL	53	PASI-PA
30300120007	**CO93-PZMxxx**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300120

Sample: Trip Blank **Lab ID: 30300120001** Collected: 06/17/19 00:01 Received: 06/17/19 22:50 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		06/21/19 15:20	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 15:20	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 15:20	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 15:20	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/19 15:20	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 15:20	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/19 15:20	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		06/21/19 15:20	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 15:20	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/19 15:20	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 15:20	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/19 15:20	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 15:20	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		06/21/19 15:20	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		06/21/19 15:20	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		06/21/19 15:20	108-10-1	
Acetone	**17.5**	ug/L	5.0	2.8	1		06/21/19 15:20	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/19 15:20	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		06/21/19 15:20	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 15:20	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/19 15:20	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 15:20	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/19 15:20	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 15:20	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 15:20	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/19 15:20	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/19 15:20	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 15:20	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/21/19 15:20	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/19 15:20	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/19 15:20	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 15:20	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		06/21/19 15:20	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/19 15:20	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/19 15:20	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/21/19 15:20	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/21/19 15:20	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 15:20	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 15:20	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/19 15:20	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 15:20	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		06/21/19 15:20	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 15:20	75-01-4	L2
Xylene (Total)	ND	ug/L	1.0	0.78	1		06/21/19 15:20	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/19 15:20	156-59-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300120

Sample: Trip Blank **Lab ID: 30300120001** Collected: 06/17/19 00:01 Received: 06/17/19 22:50 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		06/21/19 15:20	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/21/19 15:20	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/19 15:20	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		06/21/19 15:20	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		1		06/21/19 15:20	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%.	80-120		1		06/21/19 15:20	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		06/21/19 15:20	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120		1		06/21/19 15:20	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300120

Sample: CO103-PZMxxx **Lab ID: 30300120002** Collected: 06/17/19 09:22 Received: 06/17/19 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		06/21/19 17:26	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 17:26	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 17:26	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 17:26	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/19 17:26	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 17:26	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/19 17:26	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/21/19 17:26	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 17:26	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/19 17:26	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 17:26	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/19 17:26	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 17:26	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/21/19 17:26	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/21/19 17:26	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/21/19 17:26	108-10-1	
Acetone	**30.6**	ug/L	10.0	2.8	1		06/21/19 17:26	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/19 17:26	107-13-1	
Benzene	**9880**	ug/L	50.0	12.0	50		06/25/19 13:24	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 17:26	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/19 17:26	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 17:26	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/19 17:26	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 17:26	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 17:26	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/19 17:26	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/19 17:26	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 17:26	67-66-3	
Chloromethane	**1.2**	ug/L	1.0	0.68	1		06/21/19 17:26	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/19 17:26	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/19 17:26	74-95-3	
Ethylbenzene	**3.0**	ug/L	1.0	0.31	1		06/21/19 17:26	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/21/19 17:26	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/19 17:26	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/19 17:26	75-09-2	
Naphthalene	**98.5**	ug/L	2.0	0.82	1		06/21/19 17:26	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/21/19 17:26	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 17:26	127-18-4	
Toluene	**98.7**	ug/L	1.0	0.30	1		06/21/19 17:26	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/19 17:26	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 17:26	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/21/19 17:26	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 17:26	75-01-4	L2
Xylene (Total)	**47.9**	ug/L	3.0	0.78	1		06/21/19 17:26	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/19 17:26	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 17:26	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300120

Sample: CO103-PZMxxx **Lab ID: 30300120002** Collected: 06/17/19 09:22 Received: 06/17/19 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		06/21/19 17:26	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/19 17:26	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/21/19 17:26	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		06/21/19 17:26	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		1		06/21/19 17:26	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		06/21/19 17:26	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		1		06/21/19 17:26	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300120

Sample: CO104-PZMxxx **Lab ID: 30300120003** Collected: 06/17/19 10:00 Received: 06/17/19 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		06/21/19 16:11	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 16:11	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 16:11	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 16:11	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/19 16:11	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 16:11	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/19 16:11	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/21/19 16:11	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 16:11	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/19 16:11	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 16:11	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/19 16:11	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 16:11	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/21/19 16:11	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/21/19 16:11	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/21/19 16:11	108-10-1	
Acetone	**224**	ug/L	10.0	2.8	1		06/21/19 16:11	67-64-1	ML
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/19 16:11	107-13-1	
Benzene	**0.83J**	ug/L	1.0	0.24	1		06/21/19 16:11	71-43-2	ML
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 16:11	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/19 16:11	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 16:11	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/19 16:11	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 16:11	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 16:11	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/19 16:11	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/19 16:11	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 16:11	67-66-3	
Chloromethane	**8.0**	ug/L	1.0	0.68	1		06/21/19 16:11	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/19 16:11	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/19 16:11	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 16:11	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/21/19 16:11	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/19 16:11	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/19 16:11	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/21/19 16:11	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/21/19 16:11	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 16:11	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 16:11	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/19 16:11	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 16:11	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/21/19 16:11	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 16:11	75-01-4	L2
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		06/21/19 16:11	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/19 16:11	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 16:11	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300120

Sample: CO104-PZMxxx **Lab ID: 30300120003** Collected: 06/17/19 10:00 Received: 06/17/19 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		06/21/19 16:11	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/19 16:11	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/21/19 16:11	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		06/21/19 16:11	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	80-120		1		06/21/19 16:11	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		06/21/19 16:11	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		06/21/19 16:11	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300120

Sample: CO102-PZMxxx **Lab ID: 30300120004** Collected: 06/17/19 11:07 Received: 06/17/19 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		06/21/19 19:32	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 19:32	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 19:32	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 19:32	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/21/19 19:32	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 19:32	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/21/19 19:32	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/21/19 19:32	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 19:32	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/21/19 19:32	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 19:32	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 19:32	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 19:32	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/21/19 19:32	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/21/19 19:32	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/21/19 19:32	108-10-1	
Acetone	**196**	ug/L	50.0	14.2	5		06/21/19 19:32	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/21/19 19:32	107-13-1	
Benzene	**12800**	ug/L	100	24.0	100		06/21/19 19:57	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 19:32	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 19:32	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 19:32	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/21/19 19:32	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 19:32	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 19:32	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/21/19 19:32	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/19 19:32	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/21/19 19:32	67-66-3	
Chloromethane	**7.0**	ug/L	5.0	3.4	5		06/21/19 19:32	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 19:32	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 19:32	74-95-3	
Ethylbenzene	**21.8**	ug/L	5.0	1.6	5		06/21/19 19:32	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/21/19 19:32	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 19:32	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/21/19 19:32	75-09-2	
Naphthalene	**941**	ug/L	10.0	4.1	5		06/21/19 19:32	91-20-3	
Styrene	**6.2**	ug/L	5.0	0.85	5		06/21/19 19:32	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 19:32	127-18-4	
Toluene	**834**	ug/L	5.0	1.5	5		06/21/19 19:32	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 19:32	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 19:32	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/21/19 19:32	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 19:32	75-01-4	L2
Xylene (Total)	**236**	ug/L	15.0	3.9	5		06/21/19 19:32	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/21/19 19:32	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 19:32	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300120

Sample: CO102-PZMxxx **Lab ID: 30300120004** Collected: 06/17/19 11:07 Received: 06/17/19 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		06/21/19 19:32	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/21/19 19:32	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/21/19 19:32	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	78-122		5		06/21/19 19:32	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	80-120		5		06/21/19 19:32	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		06/21/19 19:32	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		06/21/19 19:32	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300120

Sample: CO30-PZM015 **Lab ID: 30300120005** Collected: 06/17/19 12:20 Received: 06/17/19 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		06/21/19 21:12	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 21:12	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 21:12	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 21:12	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/21/19 21:12	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 21:12	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/21/19 21:12	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/21/19 21:12	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 21:12	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/21/19 21:12	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 21:12	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 21:12	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 21:12	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/21/19 21:12	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/21/19 21:12	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/21/19 21:12	108-10-1	
Acetone	**167**	ug/L	50.0	14.2	5		06/21/19 21:12	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/21/19 21:12	107-13-1	
Benzene	**69900**	ug/L	500	120	500		06/21/19 21:37	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 21:12	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 21:12	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 21:12	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/21/19 21:12	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 21:12	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 21:12	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/21/19 21:12	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/19 21:12	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/21/19 21:12	67-66-3	
Chloromethane	**5.5**	ug/L	5.0	3.4	5		06/21/19 21:12	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 21:12	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 21:12	74-95-3	
Ethylbenzene	**117**	ug/L	5.0	1.6	5		06/21/19 21:12	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/21/19 21:12	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 21:12	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/21/19 21:12	75-09-2	
Naphthalene	**9090**	ug/L	1000	410	500		06/21/19 21:37	91-20-3	
Styrene	**15.1**	ug/L	5.0	0.85	5		06/21/19 21:12	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 21:12	127-18-4	
Toluene	**5110**	ug/L	500	150	500		06/21/19 21:37	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 21:12	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 21:12	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/21/19 21:12	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 21:12	75-01-4	L2
Xylene (Total)	**1590**	ug/L	15.0	3.9	5		06/21/19 21:12	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/21/19 21:12	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 21:12	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300120

Sample: CO30-PZM015 **Lab ID: 30300120005** Collected: 06/17/19 12:20 Received: 06/17/19 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		06/21/19 21:12	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/21/19 21:12	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/21/19 21:12	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		06/21/19 21:12	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	80-120		5		06/21/19 21:12	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		06/21/19 21:12	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		06/21/19 21:12	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300120

Sample: CO30-PZM060 **Lab ID: 30300120006** Collected: 06/17/19 12:55 Received: 06/17/19 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		06/21/19 16:36	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 16:36	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 16:36	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 16:36	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/19 16:36	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 16:36	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/19 16:36	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/21/19 16:36	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 16:36	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/19 16:36	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 16:36	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/19 16:36	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 16:36	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/21/19 16:36	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/21/19 16:36	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/21/19 16:36	108-10-1	
Acetone	**187**	ug/L	10.0	2.8	1		06/21/19 16:36	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/19 16:36	107-13-1	
Benzene	**85.5**	ug/L	1.0	0.24	1		06/21/19 16:36	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 16:36	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/19 16:36	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 16:36	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/19 16:36	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 16:36	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 16:36	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/19 16:36	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/19 16:36	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 16:36	67-66-3	
Chloromethane	**4.9**	ug/L	1.0	0.68	1		06/21/19 16:36	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/19 16:36	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/19 16:36	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 16:36	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/21/19 16:36	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/19 16:36	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/19 16:36	75-09-2	
Naphthalene	**1.5J**	ug/L	2.0	0.82	1		06/21/19 16:36	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/21/19 16:36	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 16:36	127-18-4	
Toluene	**2.0**	ug/L	1.0	0.30	1		06/21/19 16:36	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/19 16:36	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 16:36	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/21/19 16:36	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 16:36	75-01-4	L2
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		06/21/19 16:36	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/19 16:36	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 16:36	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300120

Sample: CO30-PZM060 **Lab ID: 30300120006** Collected: 06/17/19 12:55 Received: 06/17/19 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		06/21/19 16:36	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/19 16:36	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/21/19 16:36	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		06/21/19 16:36	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	80-120		1		06/21/19 16:36	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		06/21/19 16:36	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120		1		06/21/19 16:36	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300120

Sample: CO93-PZMxxx **Lab ID: 30300120007** Collected: 06/17/19 14:11 Received: 06/17/19 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		06/21/19 22:52	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 22:52	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 22:52	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 22:52	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/21/19 22:52	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 22:52	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/21/19 22:52	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/21/19 22:52	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 22:52	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/21/19 22:52	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 22:52	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 22:52	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 22:52	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/21/19 22:52	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/21/19 22:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/21/19 22:52	108-10-1	
Acetone	**153**	ug/L	50.0	14.2	5		06/21/19 22:52	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/21/19 22:52	107-13-1	
Benzene	**247000**	ug/L	1000	240	1000		06/21/19 23:17	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 22:52	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 22:52	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 22:52	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/21/19 22:52	74-83-9	
Carbon disulfide	**12.7**	ug/L	5.0	1.6	5		06/21/19 22:52	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 22:52	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/21/19 22:52	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/19 22:52	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/21/19 22:52	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/21/19 22:52	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 22:52	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 22:52	74-95-3	
Ethylbenzene	**1250**	ug/L	5.0	1.6	5		06/21/19 22:52	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/21/19 22:52	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 22:52	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/21/19 22:52	75-09-2	
Naphthalene	**1900**	ug/L	10.0	4.1	5		06/21/19 22:52	91-20-3	
Styrene	**1300**	ug/L	5.0	0.85	5		06/21/19 22:52	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 22:52	127-18-4	
Toluene	**69900**	ug/L	1000	300	1000		06/21/19 23:17	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 22:52	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 22:52	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/21/19 22:52	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 22:52	75-01-4	L2
Xylene (Total)	**16900**	ug/L	3000	780	1000		06/21/19 23:17	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/21/19 22:52	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 22:52	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300120

Sample: CO93-PZMxxx **Lab ID: 30300120007** Collected: 06/17/19 14:11 Received: 06/17/19 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		06/21/19 22:52	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/21/19 22:52	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/21/19 22:52	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%.	78-122		5		06/21/19 22:52	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		5		06/21/19 22:52	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		5		06/21/19 22:52	2037-26-5	
Dibromofluoromethane (S)	90	%.	80-120		5		06/21/19 22:52	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300120

QC Batch: 348535 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30300120001, 30300120002, 30300120003, 30300120004, 30300120005, 30300120006, 30300120007

METHOD BLANK: 1694667 Matrix: Water
Associated Lab Samples: 30300120001, 30300120002, 30300120003, 30300120004, 30300120005, 30300120006, 30300120007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	06/21/19 14:55	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	06/21/19 14:55	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	06/21/19 14:55	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	06/21/19 14:55	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	06/21/19 14:55	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	06/21/19 14:55	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	06/21/19 14:55	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	06/21/19 14:55	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	06/21/19 14:55	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	06/21/19 14:55	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	06/21/19 14:55	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	06/21/19 14:55	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	06/21/19 14:55	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	06/21/19 14:55	
2-Hexanone	ug/L	10.0 U	10.0	0.66	06/21/19 14:55	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	06/21/19 14:55	
Acetone	ug/L	10.0 U	10.0	2.8	06/21/19 14:55	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	06/21/19 14:55	
Benzene	ug/L	1.0 U	1.0	0.24	06/21/19 14:55	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	06/21/19 14:55	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	06/21/19 14:55	
Bromoform	ug/L	1.0 U	1.0	0.32	06/21/19 14:55	
Bromomethane	ug/L	1.0 U	1.0	0.49	06/21/19 14:55	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	06/21/19 14:55	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	06/21/19 14:55	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	06/21/19 14:55	
Chloroethane	ug/L	1.0 U	1.0	0.55	06/21/19 14:55	
Chloroform	ug/L	1.0 U	1.0	0.30	06/21/19 14:55	
Chloromethane	ug/L	1.0 U	1.0	0.68	06/21/19 14:55	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	06/21/19 14:55	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	06/21/19 14:55	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	06/21/19 14:55	
Dibromomethane	ug/L	1.0 U	1.0	0.40	06/21/19 14:55	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	06/21/19 14:55	
Iodomethane	ug/L	50.0 U	50.0	0.67	06/21/19 14:55	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	06/21/19 14:55	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	06/21/19 14:55	
Naphthalene	ug/L	2.0 U	2.0	0.82	06/21/19 14:55	
Styrene	ug/L	1.0 U	1.0	0.17	06/21/19 14:55	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	06/21/19 14:55	
Toluene	ug/L	1.0 U	1.0	0.30	06/21/19 14:55	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300120

METHOD BLANK: 1694667 Matrix: Water
Associated Lab Samples: 30300120001, 30300120002, 30300120003, 30300120004, 30300120005, 30300120006, 30300120007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	06/21/19 14:55	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	06/21/19 14:55	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	06/21/19 14:55	
Trichloroethene	ug/L	1.0 U	1.0	0.39	06/21/19 14:55	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	06/21/19 14:55	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	06/21/19 14:55	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	06/21/19 14:55	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	06/21/19 14:55	
1,2-Dichloroethane-d4 (S)	%.	110	80-120		06/21/19 14:55	
4-Bromofluorobenzene (S)	%.	101	78-122		06/21/19 14:55	
Dibromofluoromethane (S)	%.	97	80-120		06/21/19 14:55	
Toluene-d8 (S)	%.	97	80-120		06/21/19 14:55	

LABORATORY CONTROL SAMPLE: 1694668

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	17.9	90	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.8	104	70-130	
1,1,2-Trichloroethane	ug/L	20	20.1	100	70-130	
1,1-Dichloroethane	ug/L	20	16.4	82	68-121	
1,1-Dichloroethene	ug/L	20	12.9	64	63-129	
1,2,3-Trichloropropane	ug/L	20	20.2	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	20.0	100	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	19.6	98	70-130	
1,2-Dichlorobenzene	ug/L	20	21.3	107	70-130	
1,2-Dichloroethane	ug/L	20	17.0	85	67-117	
1,2-Dichloropropane	ug/L	20	20.2	101	69-121	
1,4-Dichlorobenzene	ug/L	20	21.0	105	70-130	
2-Butanone (MEK)	ug/L	20	18.3	92	59-128	
2-Hexanone	ug/L	20	16.4	82	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.7	89	63-126	
Acetone	ug/L	20	19.0	95	37-150	
Acrylonitrile	ug/L	20	14.9	74	62-128	
Benzene	ug/L	20	19.2	96	70-130	
Bromochloromethane	ug/L	20	17.9	90	59-137	
Bromodichloromethane	ug/L	20	21.0	105	70-130	
Bromoform	ug/L	20	20.7	104	65-130	
Bromomethane	ug/L	20	17.8	89	45-148	
Carbon disulfide	ug/L	20	20.0	100	55-123	
Carbon tetrachloride	ug/L	20	17.9	90	69-126	
Chlorobenzene	ug/L	20	20.0	100	70-130	
Chloroethane	ug/L	20	20.3	101	68-146	
Chloroform	ug/L	20	17.6	88	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300120

LABORATORY CONTROL SAMPLE: 1694668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	15.4	77	56-129	
cis-1,2-Dichloroethene	ug/L	20	17.1	85	66-118	
cis-1,3-Dichloropropene	ug/L	20	20.7	103	70-130	
Dibromochloromethane	ug/L	20	20.2	101	70-130	
Dibromomethane	ug/L	20	20.0	100	70-130	
Ethylbenzene	ug/L	20	21.1	105	70-130	
Iodomethane	ug/L	20	15.7J	79	10-175	
Methyl-tert-butyl ether	ug/L	20	19.4	97	70-130	
Methylene Chloride	ug/L	20	15.0	75	65-124	
Naphthalene	ug/L	20	20.1	100	69-135	
Styrene	ug/L	20	21.5	107	70-130	
Tetrachloroethene	ug/L	20	20.7	104	70-130	
Toluene	ug/L	20	20.1	100	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.9	85	64-123	
trans-1,3-Dichloropropene	ug/L	20	20.9	105	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	17.4	87	37-119	
Trichloroethene	ug/L	20	19.6	98	70-130	
Trichlorofluoromethane	ug/L	20	16.2	81	64-163	
Vinyl acetate	ug/L	20	15.6	78	45-129	
Vinyl chloride	ug/L	20	13.2	66	70-130	L2
Xylene (Total)	ug/L	60	63.5	106	70-130	
1,2-Dichloroethane-d4 (S)	%.			108	80-120	
4-Bromofluorobenzene (S)	%.			102	78-122	
Dibromofluoromethane (S)	%.			98	80-120	
Toluene-d8 (S)	%.			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1694669 1694670

Parameter	Units	30300120003 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	18.8	92	94	52-123	2	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	17.9	17.1	89	86	67-127	4	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	19.2	19.7	96	98	55-118	2	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.2	19.6	96	98	60-117	2	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	17.9	17.1	90	86	68-118	5	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	14.1	13.9	70	69	62-126	1	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	18.3	19.1	92	96	56-129	4	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	16.8	17.5	84	88	46-130	4	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	19.2	19.1	96	95	69-124	1	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	20.1	20.5	101	102	66-116	2	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	17.4	16.5	87	83	67-117	6	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	19.4	19.5	97	98	61-128	1	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	20.3	20.5	101	103	68-116	1	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	17.2	17.4	86	87	63-175	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: COA IM GW Sampling
Pace Project No.: 30300120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1694669 1694670

Parameter	Units	30300120003 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	14.7	15.2	73	76	65-151	4	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	15.6	16.5	78	82	66-149	6	30	
Acetone	ug/L	224	20	20	179	229	-223	26	10-175	24	30	ML
Acrylonitrile	ug/L	4.0 U	20	20	15.8	13.7	79	68	42-165	14	30	
Benzene	ug/L	0.83J	20	20	27.7	24.2	134	117	67-119	13	30	ML
Bromochloromethane	ug/L	1.0 U	20	20	17.4	17.7	87	89	64-124	2	30	
Bromodichloromethane	ug/L	1.0 U	20	20	19.0	19.7	95	98	67-126	4	30	
Bromoform	ug/L	1.0 U	20	20	18.1	18.0	91	90	43-114	1	30	
Bromomethane	ug/L	1.0 U	20	20	8.6	9.6	43	48	10-164	10	30	
Carbon disulfide	ug/L	1.0 U	20	20	17.9	19.9	89	99	37-135	11	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	17.1	17.9	86	89	60-137	4	30	
Chlorobenzene	ug/L	1.0 U	20	20	20.3	19.9	101	99	68-119	2	30	
Chloroethane	ug/L	1.0 U	20	20	19.4	21.1	97	106	54-169	8	30	
Chloroform	ug/L	1.0 U	20	20	17.0	16.4	85	82	69-113	4	30	
Chloromethane	ug/L	8.0	20	20	20.2	20.0	61	60	43-159	1	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.4	15.7	82	79	65-121	4	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	18.9	19.2	95	96	61-120	1	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.5	18.1	88	90	56-121	3	30	
Dibromomethane	ug/L	1.0 U	20	20	19.0	19.3	95	96	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	21.0	21.1	105	105	69-127	0	30	
Iodomethane	ug/L	50.0 U	20	20	7.8J	10.1J	39	51	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	17.2	18.4	86	92	70-130	7	30	
Methylene Chloride	ug/L	1.0 U	20	20	13.1	13.0	65	65	49-144	1	30	
Naphthalene	ug/L	2.0 U	20	20	18.1	18.6	90	93	60-136	3	30	
Styrene	ug/L	1.0 U	20	20	20.1	20.4	101	102	65-120	1	30	
Tetrachloroethene	ug/L	1.0 U	20	20	20.3	20.3	102	101	64-123	0	30	
Toluene	ug/L	1.0 U	20	20	21.1	20.3	105	102	70-130	4	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.4	16.2	82	81	66-119	1	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	18.6	19.1	93	95	52-117	2	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	11.0	12.0	55	60	13-100	9	30	
Trichloroethene	ug/L	1.0 U	20	20	19.2	19.2	96	96	63-125	0	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	14.7	13.6	73	68	43-186	8	30	
Vinyl acetate	ug/L	10.0 U	20	20	11.1	12.1	55	61	35-150	9	30	
Vinyl chloride	ug/L	1.0 U	20	20	14.7	15.5	73	78	60-133	6	30	
Xylene (Total)	ug/L	3.0 U	60	60	63.8	62.8	106	105	69-128	2	30	
1,2-Dichloroethane-d4 (S)	%.						107	106	80-120			
4-Bromofluorobenzene (S)	%.						101	101	78-122			
Dibromofluoromethane (S)	%.						100	95	80-120			
Toluene-d8 (S)	%.						100	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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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30300120

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

L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples 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.: 30300120

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30300120001	**Trip Blank**	EPA 8260B	348535		
30300120002	**CO103-PZMxxx**	EPA 8260B	348535		
30300120003	**CO104-PZMxxx**	EPA 8260B	348535		
30300120004	**CO102-PZMxxx**	EPA 8260B	348535		
30300120005	**CO30-PZM015**	EPA 8260B	348535		
30300120006	**CO30-PZM060**	EPA 8260B	348535		
30300120007	**CO93-PZMxxx**	EPA 8260B	348535		

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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:	180227

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		6/17/19		–		2				2						X		001
2	C0103-PZMxxx	/	/			/	0922		3				3						X		002
3	C0104-PZMxxx	/	/			/	1000		3				3						X		003
4	C0102-PZMxxx	/	/			/	1107		3				3						X		004
5	C030-PZM015	/	/			/	1220		3				3						X		005
6	C030-PZM060	/	/			/	1255		3				3						X		006
7	C093-PZMxxx	/	/			/	1411		3				3						X		007
8																					
9																					
10																					
11																					
12																					

WO#: 30300120

30300120

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] ANR	6/17/19	1515	David [signature]	6/17/19	1515				
	David [signature] Pace	6/17/19	1850	RDS TACE	6/17/19	1855		Y		
	RDS TACE	6/17/19	2250	Marian J Clarp	6/17/19	2250	2.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Leandra M Glumac

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 06/17/19

*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 Group Project # # 30300120

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Label # MLC

LIMS Login MLC

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 2.5 °C Correction Factor: 0 °C Final Temp: 2.5 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: MLC 6/17/19

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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: (VOA) coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.
All containers meet method preservation requirements.	✓			Initial when completed MLC Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):	✓			17. Headspace in Trip Blanks > 6mm
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad 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 27, 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.: 30300376

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2019. 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.: 30300376

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
Florida: Cert E871149 SEKS WET
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.: 30300376

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30300376001	**Trip Blank**	Water	06/18/19 00:01	06/18/19 23:00
30300376002	**CO101-PZMxxx**	Water	06/18/19 09:20	06/18/19 23:00
30300376003	**CO018-PZM006**	Water	06/18/19 09:40	06/18/19 23:00
30300376004	**CO02-PZM006**	Water	06/18/19 10:35	06/18/19 23:00
30300376005	**CO37-PZM038**	Water	06/18/19 12:02	06/18/19 23:00
30300376006	**CO39-PZM007**	Water	06/18/19 13:45	06/18/19 23:00
30300376007	**CO39-PZM042**	Water	06/18/19 14:15	06/18/19 23:00
30300376008	**CO42-PZM004**	Water	06/18/19 15:00	06/18/19 23:00

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30300376

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30300376001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30300376002	**CO101-PZMxxx**	EPA 8260B	LEL	53	PASI-PA
30300376003	**CO018-PZM006**	EPA 8260B	LEL	53	PASI-PA
30300376004	**CO02-PZM006**	EPA 8260B	LEL	53	PASI-PA
30300376005	**CO37-PZM038**	EPA 8260B	LEL	53	PASI-PA
30300376006	**CO39-PZM007**	EPA 8260B	LEL	53	PASI-PA
30300376007	**CO39-PZM042**	EPA 8260B	LEL	53	PASI-PA
30300376008	**CO42-PZM004**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300376

Sample: Trip Blank **Lab ID: 30300376001** Collected: 06/18/19 00:01 Received: 06/18/19 23:00 Matrix: Water

Comments: • Headspace in both trip blank 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		06/21/19 15:46	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 15:46	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 15:46	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 15:46	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/19 15:46	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 15:46	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/19 15:46	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		06/21/19 15:46	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 15:46	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/19 15:46	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 15:46	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/19 15:46	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 15:46	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		06/21/19 15:46	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		06/21/19 15:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		06/21/19 15:46	108-10-1	
Acetone	**14.5**	ug/L	5.0	2.8	1		06/21/19 15:46	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/19 15:46	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		06/21/19 15:46	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 15:46	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/19 15:46	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 15:46	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/19 15:46	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 15:46	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 15:46	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/19 15:46	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/19 15:46	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 15:46	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/21/19 15:46	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/19 15:46	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/19 15:46	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 15:46	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		06/21/19 15:46	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/19 15:46	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/19 15:46	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/21/19 15:46	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/21/19 15:46	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 15:46	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 15:46	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/19 15:46	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 15:46	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		06/21/19 15:46	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 15:46	75-01-4	L2
Xylene (Total)	ND	ug/L	1.0	0.78	1		06/21/19 15:46	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/19 15:46	156-59-2	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300376

Sample: Trip Blank **Lab ID: 30300376001** Collected: 06/18/19 00:01 Received: 06/18/19 23:00 Matrix: Water

Comments: • Headspace in both trip blank 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		06/21/19 15:46	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/21/19 15:46	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/19 15:46	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		06/21/19 15:46	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		06/21/19 15:46	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%.	80-120		1		06/21/19 15:46	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		06/21/19 15:46	2037-26-5	
Dibromofluoromethane (S)	105	%.	80-120		1		06/21/19 15:46	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300376

Sample: CO101-PZMxxx **Lab ID: 30300376002** Collected: 06/18/19 09:20 Received: 06/18/19 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		06/21/19 17:01	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 17:01	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 17:01	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 17:01	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/19 17:01	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 17:01	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/19 17:01	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/21/19 17:01	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 17:01	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/19 17:01	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 17:01	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/19 17:01	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 17:01	106-46-7	
2-Butanone (MEK)	**5.2J**	ug/L	10.0	2.1	1		06/21/19 17:01	78-93-3	
2-Hexanone	**1.1J**	ug/L	10.0	0.66	1		06/21/19 17:01	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/21/19 17:01	108-10-1	
Acetone	**377**	ug/L	100	28.5	10		06/24/19 16:22	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/19 17:01	107-13-1	
Benzene	**5580**	ug/L	50.0	12.0	50		06/25/19 13:49	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 17:01	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/19 17:01	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 17:01	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/19 17:01	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 17:01	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 17:01	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/19 17:01	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/19 17:01	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 17:01	67-66-3	
Chloromethane	**3.7**	ug/L	1.0	0.68	1		06/21/19 17:01	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/19 17:01	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/19 17:01	74-95-3	
Ethylbenzene	**3.5**	ug/L	1.0	0.31	1		06/21/19 17:01	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/21/19 17:01	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/19 17:01	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/19 17:01	75-09-2	
Naphthalene	**103**	ug/L	2.0	0.82	1		06/21/19 17:01	91-20-3	
Styrene	**0.60J**	ug/L	1.0	0.17	1		06/21/19 17:01	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 17:01	127-18-4	
Toluene	**157**	ug/L	1.0	0.30	1		06/21/19 17:01	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/19 17:01	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 17:01	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/21/19 17:01	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 17:01	75-01-4	L2
Xylene (Total)	**43.2**	ug/L	3.0	0.78	1		06/21/19 17:01	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/19 17:01	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 17:01	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300376

Sample: CO101-PZMxxx **Lab ID: 30300376002** Collected: 06/18/19 09:20 Received: 06/18/19 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		06/21/19 17:01	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/19 17:01	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/21/19 17:01	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		06/21/19 17:01	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%.	80-120		1		06/21/19 17:01	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		06/21/19 17:01	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		06/21/19 17:01	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300376

Sample: CO018-PZM006 **Lab ID: 30300376003** Collected: 06/18/19 09:40 Received: 06/18/19 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		06/21/19 23:42	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 23:42	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 23:42	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 23:42	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/21/19 23:42	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 23:42	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/21/19 23:42	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/21/19 23:42	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 23:42	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/21/19 23:42	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 23:42	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 23:42	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 23:42	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/21/19 23:42	78-93-3	
2-Hexanone	**4.2J**	ug/L	50.0	3.3	5		06/21/19 23:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/21/19 23:42	108-10-1	
Acetone	**190**	ug/L	50.0	14.2	5		06/21/19 23:42	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/21/19 23:42	107-13-1	
Benzene	**670000**	ug/L	2000	480	2000		06/22/19 00:07	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 23:42	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 23:42	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 23:42	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/21/19 23:42	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 23:42	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 23:42	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/21/19 23:42	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/19 23:42	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/21/19 23:42	67-66-3	
Chloromethane	**4.2J**	ug/L	5.0	3.4	5		06/21/19 23:42	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 23:42	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 23:42	74-95-3	
Ethylbenzene	**73.8**	ug/L	5.0	1.6	5		06/21/19 23:42	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/21/19 23:42	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 23:42	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/21/19 23:42	75-09-2	
Naphthalene	**189**	ug/L	10.0	4.1	5		06/21/19 23:42	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	0.85	5		06/21/19 23:42	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 23:42	127-18-4	
Toluene	**15300**	ug/L	2000	600	2000		06/22/19 00:07	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 23:42	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 23:42	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/21/19 23:42	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 23:42	75-01-4	L2
Xylene (Total)	**1740**	ug/L	15.0	3.9	5		06/21/19 23:42	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/21/19 23:42	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 23:42	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300376

Sample: CO018-PZM006 **Lab ID: 30300376003** Collected: 06/18/19 09:40 Received: 06/18/19 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		06/21/19 23:42	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/21/19 23:42	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/21/19 23:42	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	78-122		5		06/21/19 23:42	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		5		06/21/19 23:42	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		06/21/19 23:42	2037-26-5	
Dibromofluoromethane (S)	86	%.	80-120		5		06/21/19 23:42	1868-53-7	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300376

Sample: CO02-PZM006 **Lab ID: 30300376004** Collected: 06/18/19 10:35 Received: 06/18/19 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		06/21/19 22:02	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 22:02	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 22:02	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 22:02	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/21/19 22:02	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 22:02	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/21/19 22:02	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/21/19 22:02	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 22:02	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/21/19 22:02	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 22:02	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 22:02	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 22:02	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/21/19 22:02	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/21/19 22:02	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/21/19 22:02	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		06/21/19 22:02	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/21/19 22:02	107-13-1	
Benzene	**148000**	ug/L	1000	240	1000		06/21/19 22:27	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 22:02	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 22:02	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 22:02	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/21/19 22:02	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 22:02	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 22:02	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/21/19 22:02	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/19 22:02	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/21/19 22:02	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/21/19 22:02	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 22:02	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 22:02	74-95-3	
Ethylbenzene	**293**	ug/L	5.0	1.6	5		06/21/19 22:02	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/21/19 22:02	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 22:02	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/21/19 22:02	75-09-2	
Naphthalene	**218**	ug/L	10.0	4.1	5		06/21/19 22:02	91-20-3	
Styrene	**3.2J**	ug/L	5.0	0.85	5		06/21/19 22:02	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 22:02	127-18-4	
Toluene	**144**	ug/L	5.0	1.5	5		06/21/19 22:02	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 22:02	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 22:02	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/21/19 22:02	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 22:02	75-01-4	L2
Xylene (Total)	**357**	ug/L	15.0	3.9	5		06/21/19 22:02	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/21/19 22:02	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 22:02	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300376

Sample: CO02-PZM006 **Lab ID: 30300376004** Collected: 06/18/19 10:35 Received: 06/18/19 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		06/21/19 22:02	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/21/19 22:02	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/21/19 22:02	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	78-122		5		06/21/19 22:02	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	80-120		5		06/21/19 22:02	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		06/21/19 22:02	2037-26-5	
Dibromofluoromethane (S)	89	%.	80-120		5		06/21/19 22:02	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300376

Sample: CO37-PZM038 **Lab ID: 30300376005** Collected: 06/18/19 12:02 Received: 06/18/19 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		06/21/19 20:22	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 20:22	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 20:22	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 20:22	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/21/19 20:22	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 20:22	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/21/19 20:22	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/21/19 20:22	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 20:22	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/21/19 20:22	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 20:22	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 20:22	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 20:22	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/21/19 20:22	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/21/19 20:22	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/21/19 20:22	108-10-1	
Acetone	**258**	ug/L	50.0	14.2	5		06/21/19 20:22	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/21/19 20:22	107-13-1	
Benzene	**17600**	ug/L	200	48.0	200		06/21/19 20:47	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 20:22	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 20:22	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 20:22	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/21/19 20:22	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 20:22	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 20:22	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/21/19 20:22	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/19 20:22	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/21/19 20:22	67-66-3	
Chloromethane	**5.1**	ug/L	5.0	3.4	5		06/21/19 20:22	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 20:22	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 20:22	74-95-3	
Ethylbenzene	**313**	ug/L	5.0	1.6	5		06/21/19 20:22	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/21/19 20:22	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 20:22	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/21/19 20:22	75-09-2	
Naphthalene	**1390**	ug/L	10.0	4.1	5		06/21/19 20:22	91-20-3	
Styrene	**470**	ug/L	5.0	0.85	5		06/21/19 20:22	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 20:22	127-18-4	
Toluene	**9520**	ug/L	200	60.0	200		06/21/19 20:47	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 20:22	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 20:22	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/21/19 20:22	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 20:22	75-01-4	L2
Xylene (Total)	**2510**	ug/L	15.0	3.9	5		06/21/19 20:22	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/21/19 20:22	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 20:22	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300376

Sample: CO37-PZM038 **Lab ID: 30300376005** Collected: 06/18/19 12:02 Received: 06/18/19 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		06/21/19 20:22	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/21/19 20:22	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/21/19 20:22	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		06/21/19 20:22	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		5		06/21/19 20:22	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		06/21/19 20:22	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		5		06/21/19 20:22	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300376

Sample: CO39-PZM007 **Lab ID: 30300376006** Collected: 06/18/19 13:45 Received: 06/18/19 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		06/21/19 17:52	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 17:52	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 17:52	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 17:52	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/19 17:52	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 17:52	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/19 17:52	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/21/19 17:52	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 17:52	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/19 17:52	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 17:52	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/19 17:52	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 17:52	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/21/19 17:52	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/21/19 17:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/21/19 17:52	108-10-1	
Acetone	**10.7**	ug/L	10.0	2.8	1		06/21/19 17:52	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/19 17:52	107-13-1	
Benzene	**767**	ug/L	20.0	4.8	20		06/21/19 18:17	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 17:52	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/19 17:52	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 17:52	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/19 17:52	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 17:52	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 17:52	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/19 17:52	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/19 17:52	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 17:52	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/21/19 17:52	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/19 17:52	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/19 17:52	74-95-3	
Ethylbenzene	**4.7**	ug/L	1.0	0.31	1		06/21/19 17:52	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/21/19 17:52	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/19 17:52	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/19 17:52	75-09-2	
Naphthalene	**1540**	ug/L	40.0	16.4	20		06/21/19 18:17	91-20-3	
Styrene	**4.9**	ug/L	1.0	0.17	1		06/21/19 17:52	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 17:52	127-18-4	
Toluene	**126**	ug/L	1.0	0.30	1		06/21/19 17:52	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/19 17:52	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 17:52	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/21/19 17:52	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 17:52	75-01-4	L2
Xylene (Total)	**48.0**	ug/L	3.0	0.78	1		06/21/19 17:52	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/19 17:52	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 17:52	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300376

Sample: CO39-PZM007 **Lab ID: 30300376006** Collected: 06/18/19 13:45 Received: 06/18/19 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		06/21/19 17:52	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/19 17:52	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/21/19 17:52	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		06/21/19 17:52	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%.	80-120		1		06/21/19 17:52	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		06/21/19 17:52	2037-26-5	
Dibromofluoromethane (S)	104	%.	80-120		1		06/21/19 17:52	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300376

Sample: CO39-PZM042 **Lab ID: 30300376007** Collected: 06/18/19 14:15 Received: 06/18/19 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		06/21/19 18:42	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 18:42	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 18:42	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 18:42	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/19 18:42	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 18:42	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/19 18:42	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/21/19 18:42	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 18:42	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/19 18:42	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 18:42	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/19 18:42	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 18:42	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/21/19 18:42	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/21/19 18:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/21/19 18:42	108-10-1	
Acetone	**64.4**	ug/L	10.0	2.8	1		06/21/19 18:42	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/19 18:42	107-13-1	
Benzene	**7900**	ug/L	50.0	12.0	50		06/21/19 19:07	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 18:42	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/19 18:42	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 18:42	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/19 18:42	74-83-9	
Carbon disulfide	**0.39J**	ug/L	1.0	0.32	1		06/21/19 18:42	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 18:42	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/19 18:42	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/19 18:42	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 18:42	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/21/19 18:42	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/19 18:42	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/19 18:42	74-95-3	
Ethylbenzene	**55.9**	ug/L	1.0	0.31	1		06/21/19 18:42	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/21/19 18:42	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/19 18:42	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/19 18:42	75-09-2	
Naphthalene	**9820**	ug/L	100	41.0	50		06/21/19 19:07	91-20-3	
Styrene	**81.4**	ug/L	1.0	0.17	1		06/21/19 18:42	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 18:42	127-18-4	
Toluene	**2120**	ug/L	50.0	15.0	50		06/21/19 19:07	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/19 18:42	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 18:42	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/21/19 18:42	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 18:42	75-01-4	L2
Xylene (Total)	**542**	ug/L	3.0	0.78	1		06/21/19 18:42	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/19 18:42	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 18:42	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300376

Sample: CO39-PZM042 **Lab ID: 30300376007** Collected: 06/18/19 14:15 Received: 06/18/19 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		06/21/19 18:42	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/19 18:42	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/21/19 18:42	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		06/21/19 18:42	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	80-120		1		06/21/19 18:42	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		06/21/19 18:42	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		06/21/19 18:42	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300376

Sample: CO42-PZM004 **Lab ID: 30300376008** Collected: 06/18/19 15:00 Received: 06/18/19 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		06/21/19 16:49	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 16:49	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 16:49	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 16:49	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/19 16:49	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 16:49	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/19 16:49	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/21/19 16:49	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 16:49	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/19 16:49	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 16:49	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/19 16:49	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 16:49	106-46-7	
2-Butanone (MEK)	**2.3J**	ug/L	10.0	2.1	1		06/21/19 16:49	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/21/19 16:49	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/21/19 16:49	108-10-1	
Acetone	**163**	ug/L	10.0	2.8	1		06/21/19 16:49	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/19 16:49	107-13-1	
Benzene	**331**	ug/L	1.0	0.24	1		06/21/19 16:49	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 16:49	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/19 16:49	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 16:49	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/19 16:49	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 16:49	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 16:49	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/19 16:49	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/19 16:49	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 16:49	67-66-3	
Chloromethane	**3.5**	ug/L	1.0	0.68	1		06/21/19 16:49	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/19 16:49	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/19 16:49	74-95-3	
Ethylbenzene	**62.0**	ug/L	1.0	0.31	1		06/21/19 16:49	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/21/19 16:49	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/19 16:49	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/19 16:49	75-09-2	
Naphthalene	**208**	ug/L	2.0	0.82	1		06/21/19 16:49	91-20-3	
Styrene	**51.6**	ug/L	1.0	0.17	1		06/21/19 16:49	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 16:49	127-18-4	
Toluene	**595**	ug/L	5.0	1.5	5		06/24/19 17:15	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/19 16:49	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 16:49	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/21/19 16:49	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 16:49	75-01-4	
Xylene (Total)	**627**	ug/L	3.0	0.78	1		06/21/19 16:49	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/19 16:49	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 16:49	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300376

Sample: CO42-PZM004 **Lab ID: 30300376008** Collected: 06/18/19 15:00 Received: 06/18/19 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		06/21/19 16:49	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/19 16:49	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/21/19 16:49	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		06/21/19 16:49	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	80-120		1		06/21/19 16:49	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		1		06/21/19 16:49	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		06/21/19 16:49	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300376

QC Batch: 348535 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30300376001, 30300376002, 30300376003, 30300376004, 30300376005, 30300376006, 30300376007

METHOD BLANK: 1694667 Matrix: Water
Associated Lab Samples: 30300376001, 30300376002, 30300376003, 30300376004, 30300376005, 30300376006, 30300376007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	06/21/19 14:55	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	06/21/19 14:55	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	06/21/19 14:55	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	06/21/19 14:55	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	06/21/19 14:55	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	06/21/19 14:55	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	06/21/19 14:55	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	06/21/19 14:55	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	06/21/19 14:55	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	06/21/19 14:55	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	06/21/19 14:55	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	06/21/19 14:55	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	06/21/19 14:55	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	06/21/19 14:55	
2-Hexanone	ug/L	10.0 U	10.0	0.66	06/21/19 14:55	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	06/21/19 14:55	
Acetone	ug/L	10.0 U	10.0	2.8	06/21/19 14:55	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	06/21/19 14:55	
Benzene	ug/L	1.0 U	1.0	0.24	06/21/19 14:55	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	06/21/19 14:55	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	06/21/19 14:55	
Bromoform	ug/L	1.0 U	1.0	0.32	06/21/19 14:55	
Bromomethane	ug/L	1.0 U	1.0	0.49	06/21/19 14:55	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	06/21/19 14:55	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	06/21/19 14:55	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	06/21/19 14:55	
Chloroethane	ug/L	1.0 U	1.0	0.55	06/21/19 14:55	
Chloroform	ug/L	1.0 U	1.0	0.30	06/21/19 14:55	
Chloromethane	ug/L	1.0 U	1.0	0.68	06/21/19 14:55	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	06/21/19 14:55	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	06/21/19 14:55	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	06/21/19 14:55	
Dibromomethane	ug/L	1.0 U	1.0	0.40	06/21/19 14:55	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	06/21/19 14:55	
Iodomethane	ug/L	50.0 U	50.0	0.67	06/21/19 14:55	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	06/21/19 14:55	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	06/21/19 14:55	
Naphthalene	ug/L	2.0 U	2.0	0.82	06/21/19 14:55	
Styrene	ug/L	1.0 U	1.0	0.17	06/21/19 14:55	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	06/21/19 14:55	
Toluene	ug/L	1.0 U	1.0	0.30	06/21/19 14:55	

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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.: 30300376

METHOD BLANK: 1694667 Matrix: Water
Associated Lab Samples: 30300376001, 30300376002, 30300376003, 30300376004, 30300376005, 30300376006, 30300376007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	06/21/19 14:55	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	06/21/19 14:55	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	06/21/19 14:55	
Trichloroethene	ug/L	1.0 U	1.0	0.39	06/21/19 14:55	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	06/21/19 14:55	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	06/21/19 14:55	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	06/21/19 14:55	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	06/21/19 14:55	
1,2-Dichloroethane-d4 (S)	%.	110	80-120		06/21/19 14:55	
4-Bromofluorobenzene (S)	%.	101	78-122		06/21/19 14:55	
Dibromofluoromethane (S)	%.	97	80-120		06/21/19 14:55	
Toluene-d8 (S)	%.	97	80-120		06/21/19 14:55	

LABORATORY CONTROL SAMPLE: 1694668

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	17.9	90	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.8	104	70-130	
1,1,2-Trichloroethane	ug/L	20	20.1	100	70-130	
1,1-Dichloroethane	ug/L	20	16.4	82	68-121	
1,1-Dichloroethene	ug/L	20	12.9	64	63-129	
1,2,3-Trichloropropane	ug/L	20	20.2	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	20.0	100	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	19.6	98	70-130	
1,2-Dichlorobenzene	ug/L	20	21.3	107	70-130	
1,2-Dichloroethane	ug/L	20	17.0	85	67-117	
1,2-Dichloropropane	ug/L	20	20.2	101	69-121	
1,4-Dichlorobenzene	ug/L	20	21.0	105	70-130	
2-Butanone (MEK)	ug/L	20	18.3	92	59-128	
2-Hexanone	ug/L	20	16.4	82	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.7	89	63-126	
Acetone	ug/L	20	19.0	95	37-150	
Acrylonitrile	ug/L	20	14.9	74	62-128	
Benzene	ug/L	20	19.2	96	70-130	
Bromochloromethane	ug/L	20	17.9	90	59-137	
Bromodichloromethane	ug/L	20	21.0	105	70-130	
Bromoform	ug/L	20	20.7	104	65-130	
Bromomethane	ug/L	20	17.8	89	45-148	
Carbon disulfide	ug/L	20	20.0	100	55-123	
Carbon tetrachloride	ug/L	20	17.9	90	69-126	
Chlorobenzene	ug/L	20	20.0	100	70-130	
Chloroethane	ug/L	20	20.3	101	68-146	
Chloroform	ug/L	20	17.6	88	69-116	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300376

LABORATORY CONTROL SAMPLE: 1694668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	15.4	77	56-129	
cis-1,2-Dichloroethene	ug/L	20	17.1	85	66-118	
cis-1,3-Dichloropropene	ug/L	20	20.7	103	70-130	
Dibromochloromethane	ug/L	20	20.2	101	70-130	
Dibromomethane	ug/L	20	20.0	100	70-130	
Ethylbenzene	ug/L	20	21.1	105	70-130	
Iodomethane	ug/L	20	15.7J	79	10-175	
Methyl-tert-butyl ether	ug/L	20	19.4	97	70-130	
Methylene Chloride	ug/L	20	15.0	75	65-124	
Naphthalene	ug/L	20	20.1	100	69-135	
Styrene	ug/L	20	21.5	107	70-130	
Tetrachloroethene	ug/L	20	20.7	104	70-130	
Toluene	ug/L	20	20.1	100	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.9	85	64-123	
trans-1,3-Dichloropropene	ug/L	20	20.9	105	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	17.4	87	37-119	
Trichloroethene	ug/L	20	19.6	98	70-130	
Trichlorofluoromethane	ug/L	20	16.2	81	64-163	
Vinyl acetate	ug/L	20	15.6	78	45-129	
Vinyl chloride	ug/L	20	13.2	66	70-130	L2
Xylene (Total)	ug/L	60	63.5	106	70-130	
1,2-Dichloroethane-d4 (S)	%.			108	80-120	
4-Bromofluorobenzene (S)	%.			102	78-122	
Dibromofluoromethane (S)	%.			98	80-120	
Toluene-d8 (S)	%.			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1694669 1694670

Parameter	Units	30300120003 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	18.8	92	94	52-123	2	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	17.9	17.1	89	86	67-127	4	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	19.2	19.7	96	98	55-118	2	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.2	19.6	96	98	60-117	2	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	17.9	17.1	90	86	68-118	5	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	14.1	13.9	70	69	62-126	1	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	18.3	19.1	92	96	56-129	4	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	16.8	17.5	84	88	46-130	4	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	19.2	19.1	96	95	69-124	1	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	20.1	20.5	101	102	66-116	2	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	17.4	16.5	87	83	67-117	6	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	19.4	19.5	97	98	61-128	1	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	20.3	20.5	101	103	68-116	1	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	17.2	17.4	86	87	63-175	1	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300376

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1694669 1694670

Parameter	Units	30300120003 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	14.7	15.2	73	76	65-151	4	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	15.6	16.5	78	82	66-149	6	30	
Acetone	ug/L	224	20	20	179	229	-223	26	10-175	24	30	ML
Acrylonitrile	ug/L	4.0 U	20	20	15.8	13.7	79	68	42-165	14	30	
Benzene	ug/L	0.83J	20	20	27.7	24.2	134	117	67-119	13	30	ML
Bromochloromethane	ug/L	1.0 U	20	20	17.4	17.7	87	89	64-124	2	30	
Bromodichloromethane	ug/L	1.0 U	20	20	19.0	19.7	95	98	67-126	4	30	
Bromoform	ug/L	1.0 U	20	20	18.1	18.0	91	90	43-114	1	30	
Bromomethane	ug/L	1.0 U	20	20	8.6	9.6	43	48	10-164	10	30	
Carbon disulfide	ug/L	1.0 U	20	20	17.9	19.9	89	99	37-135	11	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	17.1	17.9	86	89	60-137	4	30	
Chlorobenzene	ug/L	1.0 U	20	20	20.3	19.9	101	99	68-119	2	30	
Chloroethane	ug/L	1.0 U	20	20	19.4	21.1	97	106	54-169	8	30	
Chloroform	ug/L	1.0 U	20	20	17.0	16.4	85	82	69-113	4	30	
Chloromethane	ug/L	8.0	20	20	20.2	20.0	61	60	43-159	1	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.4	15.7	82	79	65-121	4	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	18.9	19.2	95	96	61-120	1	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.5	18.1	88	90	56-121	3	30	
Dibromomethane	ug/L	1.0 U	20	20	19.0	19.3	95	96	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	21.0	21.1	105	105	69-127	0	30	
Iodomethane	ug/L	50.0 U	20	20	7.8J	10.1J	39	51	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	17.2	18.4	86	92	70-130	7	30	
Methylene Chloride	ug/L	1.0 U	20	20	13.1	13.0	65	65	49-144	1	30	
Naphthalene	ug/L	2.0 U	20	20	18.1	18.6	90	93	60-136	3	30	
Styrene	ug/L	1.0 U	20	20	20.1	20.4	101	102	65-120	1	30	
Tetrachloroethene	ug/L	1.0 U	20	20	20.3	20.3	102	101	64-123	0	30	
Toluene	ug/L	1.0 U	20	20	21.1	20.3	105	102	70-130	4	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.4	16.2	82	81	66-119	1	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	18.6	19.1	93	95	52-117	2	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	11.0	12.0	55	60	13-100	9	30	
Trichloroethene	ug/L	1.0 U	20	20	19.2	19.2	96	96	63-125	0	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	14.7	13.6	73	68	43-186	8	30	
Vinyl acetate	ug/L	10.0 U	20	20	11.1	12.1	55	61	35-150	9	30	
Vinyl chloride	ug/L	1.0 U	20	20	14.7	15.5	73	78	60-133	6	30	
Xylene (Total)	ug/L	3.0 U	60	60	63.8	62.8	106	105	69-128	2	30	
1,2-Dichloroethane-d4 (S)	%.						107	106	80-120			
4-Bromofluorobenzene (S)	%.						101	101	78-122			
Dibromofluoromethane (S)	%.						100	95	80-120			
Toluene-d8 (S)	%.						100	97	80-120			

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300376

QC Batch: 348539 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30300376008

METHOD BLANK: 1694693 Matrix: Water
Associated Lab Samples: 30300376008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	06/21/19 15:08	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	06/21/19 15:08	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	06/21/19 15:08	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	06/21/19 15:08	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	06/21/19 15:08	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	06/21/19 15:08	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	06/21/19 15:08	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	06/21/19 15:08	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	06/21/19 15:08	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	06/21/19 15:08	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	06/21/19 15:08	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	06/21/19 15:08	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	06/21/19 15:08	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	06/21/19 15:08	
2-Hexanone	ug/L	10.0 U	10.0	0.66	06/21/19 15:08	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	06/21/19 15:08	
Acetone	ug/L	10.0 U	10.0	2.8	06/21/19 15:08	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	06/21/19 15:08	
Benzene	ug/L	1.0 U	1.0	0.24	06/21/19 15:08	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	06/21/19 15:08	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	06/21/19 15:08	
Bromoform	ug/L	1.0 U	1.0	0.32	06/21/19 15:08	
Bromomethane	ug/L	1.0 U	1.0	0.49	06/21/19 15:08	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	06/21/19 15:08	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	06/21/19 15:08	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	06/21/19 15:08	
Chloroethane	ug/L	1.0 U	1.0	0.55	06/21/19 15:08	
Chloroform	ug/L	1.0 U	1.0	0.30	06/21/19 15:08	
Chloromethane	ug/L	1.0 U	1.0	0.68	06/21/19 15:08	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	06/21/19 15:08	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	06/21/19 15:08	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	06/21/19 15:08	
Dibromomethane	ug/L	1.0 U	1.0	0.40	06/21/19 15:08	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	06/21/19 15:08	
Iodomethane	ug/L	50.0 U	50.0	0.67	06/21/19 15:08	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	06/21/19 15:08	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	06/21/19 15:08	
Naphthalene	ug/L	2.0 U	2.0	0.82	06/21/19 15:08	
Styrene	ug/L	1.0 U	1.0	0.17	06/21/19 15:08	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	06/21/19 15:08	
Toluene	ug/L	1.0 U	1.0	0.30	06/21/19 15:08	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300376

METHOD BLANK: 1694693 Matrix: Water
Associated Lab Samples: 30300376008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	06/21/19 15:08	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	06/21/19 15:08	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	06/21/19 15:08	
Trichloroethene	ug/L	1.0 U	1.0	0.39	06/21/19 15:08	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	06/21/19 15:08	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	06/21/19 15:08	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	06/21/19 15:08	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	06/21/19 15:08	
1,2-Dichloroethane-d4 (S)	%.	107	80-120		06/21/19 15:08	
4-Bromofluorobenzene (S)	%.	100	78-122		06/21/19 15:08	
Dibromofluoromethane (S)	%.	100	80-120		06/21/19 15:08	
Toluene-d8 (S)	%.	94	80-120		06/21/19 15:08	

LABORATORY CONTROL SAMPLE: 1694694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.2	101	70-130	
1,1,1-Trichloroethane	ug/L	20	20.1	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.5	107	70-130	
1,1,2-Trichloroethane	ug/L	20	20.6	103	70-130	
1,1-Dichloroethane	ug/L	20	20.0	100	68-121	
1,1-Dichloroethene	ug/L	20	17.0	85	63-129	
1,2,3-Trichloropropane	ug/L	20	20.9	105	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	21.2	106	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.6	103	70-130	
1,2-Dichlorobenzene	ug/L	20	22.5	112	70-130	
1,2-Dichloroethane	ug/L	20	19.3	96	67-117	
1,2-Dichloropropane	ug/L	20	22.1	110	69-121	
1,4-Dichlorobenzene	ug/L	20	21.9	110	70-130	
2-Butanone (MEK)	ug/L	20	19.1	95	59-128	
2-Hexanone	ug/L	20	16.4	82	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.3	92	63-126	
Acetone	ug/L	20	20.5	103	37-150	
Acrylonitrile	ug/L	20	21.2	106	62-128	
Benzene	ug/L	20	21.5	107	70-130	
Bromochloromethane	ug/L	20	20.6	103	59-137	
Bromodichloromethane	ug/L	20	23.0	115	70-130	
Bromoform	ug/L	20	18.4	92	65-130	
Bromomethane	ug/L	20	22.1	111	45-148	
Carbon disulfide	ug/L	20	21.1	105	55-123	
Carbon tetrachloride	ug/L	20	20.1	100	69-126	
Chlorobenzene	ug/L	20	21.2	106	70-130	
Chloroethane	ug/L	20	23.2	116	68-146	
Chloroform	ug/L	20	20.3	102	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300376

LABORATORY CONTROL SAMPLE: 1694694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	14.9	74	56-129	
cis-1,2-Dichloroethene	ug/L	20	19.1	95	66-118	
cis-1,3-Dichloropropene	ug/L	20	22.5	113	70-130	
Dibromochloromethane	ug/L	20	18.4	92	70-130	
Dibromomethane	ug/L	20	21.8	109	70-130	
Ethylbenzene	ug/L	20	22.0	110	70-130	
Iodomethane	ug/L	20	15.7J	78	10-175	
Methyl-tert-butyl ether	ug/L	20	21.0	105	70-130	
Methylene Chloride	ug/L	20	15.8	79	65-124	
Naphthalene	ug/L	20	19.4	97	69-135	
Styrene	ug/L	20	22.4	112	70-130	
Tetrachloroethene	ug/L	20	21.4	107	70-130	
Toluene	ug/L	20	21.0	105	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.4	92	64-123	
trans-1,3-Dichloropropene	ug/L	20	21.1	106	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	16.2	81	37-119	
Trichloroethene	ug/L	20	19.9	100	70-130	
Trichlorofluoromethane	ug/L	20	22.8	114	64-163	
Vinyl acetate	ug/L	20	16.9	84	45-129	
Vinyl chloride	ug/L	20	17.0	85	70-130	
Xylene (Total)	ug/L	60	69.2	115	70-130	
1,2-Dichloroethane-d4 (S)	%.			104	80-120	
4-Bromofluorobenzene (S)	%.			99	78-122	
Dibromofluoromethane (S)	%.			104	80-120	
Toluene-d8 (S)	%.			94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1695698 1695699

Parameter	Units	30300659002 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	18.8	92	94	52-123	1	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	18.6	18.4	93	92	67-127	1	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	19.6	19.7	98	99	55-118	1	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.4	19.0	97	95	60-117	2	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	17.7	17.2	88	86	68-118	2	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	15.1	15.8	75	79	62-126	5	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	20.6	21.2	103	106	56-129	3	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	22.0	22.6	110	113	46-130	2	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.9	18.4	95	92	69-124	3	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	20.2	20.4	101	102	66-116	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	17.6	18.6	88	93	67-117	6	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	18.7	20.2	94	101	61-128	8	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	20.3	20.6	101	103	68-116	1	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	20.0	18.9	100	94	63-175	6	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: COA IM GW Sampling
Pace Project No.: 30300376

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1695698 1695699

Parameter	Units	30300659002 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	17.2	89	86	65-151	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	18.9	18.9	94	95	66-149	0	30	
Acetone	ug/L	52.2	20	20	32.0	60.8	-101	43	10-175	62	30	ML,R1
Acrylonitrile	ug/L	4.0 U	20	20	14.7	16.8	73	84	42-165	13	30	
Benzene	ug/L	241	20	20	240	265	-4	120	67-119	10	30	ML
Bromochloromethane	ug/L	1.0 U	20	20	17.9	18.5	90	93	64-124	3	30	
Bromodichloromethane	ug/L	1.0 U	20	20	20.2	20.4	101	102	67-126	1	30	
Bromoform	ug/L	1.0 U	20	20	15.6	15.8	78	79	43-114	2	30	
Bromomethane	ug/L	1.0 U	20	20	9.9	10.0	49	50	10-164	2	30	
Carbon disulfide	ug/L	1.0 U	20	20	16.6	17.1	82	85	37-135	3	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	18.5	17.9	93	90	60-137	3	30	
Chlorobenzene	ug/L	1.0 U	20	20	19.8	19.7	99	98	68-119	1	30	
Chloroethane	ug/L	1.0 U	20	20	13.6	12.2	68	61	54-169	11	30	
Chloroform	ug/L	1.0 U	20	20	18.0	19.3	90	96	69-113	7	30	
Chloromethane	ug/L	1.0 U	20	20	9.8	10.6	49	53	43-159	7	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.6	16.8	83	84	65-121	2	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	19.2	19.5	96	97	61-120	1	30	
Dibromochloromethane	ug/L	1.0 U	20	20	16.6	16.5	83	82	56-121	1	30	
Dibromomethane	ug/L	1.0 U	20	20	20.3	20.0	102	100	56-133	1	30	
Ethylbenzene	ug/L	1.6	20	20	22.1	22.4	102	104	69-127	1	30	
Iodomethane	ug/L	50.0 U	20	20	8.0J	8.8J	40	44	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	17.4	17.5	87	88	70-130	1	30	
Methylene Chloride	ug/L	1.0 U	20	20	13.3	14.5	66	72	49-144	8	30	
Naphthalene	ug/L	61.3	20	20	78.2	86.2	84	124	60-136	10	30	
Styrene	ug/L	1.0 U	20	20	22.0	22.0	110	110	65-120	0	30	
Tetrachloroethene	ug/L	1.0 U	20	20	20.2	20.0	101	100	64-123	1	30	
Toluene	ug/L	19.8	20	20	36.2	40.2	82	102	70-130	11	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.5	16.5	82	83	66-119	0	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	19.0	18.8	95	94	52-117	1	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	13.6	13.4	68	67	13-100	2	30	
Trichloroethene	ug/L	1.0 U	20	20	18.5	19.4	92	97	63-125	5	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	15.7	16.1	78	81	43-186	3	30	
Vinyl acetate	ug/L	10.0 U	20	20	13.3	12.8	67	64	35-150	4	30	
Vinyl chloride	ug/L	1.0 U	20	20	12.1	11.2	60	56	60-133	7	30	ML
Xylene (Total)	ug/L	16.4	60	60	80.7	83.2	107	111	69-128	3	30	
1,2-Dichloroethane-d4 (S)	%.						107	106	80-120			
4-Bromofluorobenzene (S)	%.						100	99	78-122			
Dibromofluoromethane (S)	%.						102	101	80-120			
Toluene-d8 (S)	%.						96	92	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.: 30300376

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

L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
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
Pace Project No.: 30300376

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30300376001	**Trip Blank**	EPA 8260B	348535		
30300376002	**CO101-PZMxxx**	EPA 8260B	348535		
30300376003	**CO018-PZM006**	EPA 8260B	348535		
30300376004	**CO02-PZM006**	EPA 8260B	348535		
30300376005	**CO37-PZM038**	EPA 8260B	348535		
30300376006	**CO39-PZM007**	EPA 8260B	348535		
30300376007	**CO39-PZM042**	EPA 8260B	348535		
30300376008	**CO42-PZM004**	EPA 8260B	348539		

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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
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

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#: 30300376
30300376

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

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	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	Pace Project No./ Lab I.D.
1	Trip Blank	WT		—	6/18/19	—			2	X			2					X		001
2	C0101-PZMxxx	WT	G				0920		3	X			3					X		002
3	CO 018-PZM006	WT	G				0940		3				3					X		003
4	CO 02-PZM006	WT	G				1035		3				3					X		004
5	C037-PZM038	WT	G				1202		3				3					X		005
6	C039-PZM007	WT	G				1345		3				3					X		006
7	C039-PZM042	WT	G				1415		3				3					X		007
8	C042-PZM004	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)
	ARM	6/18/19	1530	David F Hellegers/Pace	6/18/19	1620				
	David F Hellegers/Pace	6/18/19	1930	RDS FACE	6/18/19	1935		Y		
	RDS FACE	6/18/19	2300	Marvin F Clary	6/18/19	2300	14	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Leandra M Glumac
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/18/19

*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 Group Project # # 30300376

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Label MLC
LIMS Login MLC

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 1.4 °C Correction Factor: 0 °C Final Temp: 1.4 °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: MLC 6/18/19
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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.
All containers meet method preservation requirements.	✓			Initial when completed MLC Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):	✓			17. Headspace in both Trip Blanks
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad 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 28, 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.: 30300659

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2019. 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.: 30300659

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
Florida: Cert E871149 SEKS WET
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.: 30300659

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30300659001	**Trip Blank**	Water	06/19/19 00:01	06/19/19 23:45
30300659002	**CO40-PZM008**	Water	06/19/19 09:39	06/19/19 23:45
30300659003	**CO27-PZM012**	Water	06/19/19 10:23	06/19/19 23:45
30300659004	**CO27-PZM46**	Water	06/19/19 11:01	06/19/19 23:45
30300659005	**CO38-PZM006**	Water	06/19/19 12:13	06/19/19 23:45
30300659006	**CO38-PZM043**	Water	06/19/19 12:13	06/19/19 23:45
30300659007	**CO36-PZM008**	Water	06/19/19 14:25	06/19/19 23:45
30300659008	**CO36-PZM043**	Water	06/19/19 15:05	06/19/19 23:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30300659

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30300659001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30300659002	**CO40-PZM008**	EPA 8260B	LEL	53	PASI-PA
30300659003	**CO27-PZM012**	EPA 8260B	LEL	53	PASI-PA
30300659004	**CO27-PZM46**	EPA 8260B	LEL	53	PASI-PA
30300659005	**CO38-PZM006**	EPA 8260B	LEL	53	PASI-PA
30300659006	**CO38-PZM043**	EPA 8260B	LEL	53	PASI-PA
30300659007	**CO36-PZM008**	EPA 8260B	LEL	53	PASI-PA
30300659008	**CO36-PZM043**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300659

Sample: Trip Blank **Lab ID: 30300659001** Collected: 06/19/19 00:01 Received: 06/19/19 23:45 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		06/21/19 15:33	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 15:33	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 15:33	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 15:33	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/19 15:33	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 15:33	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/19 15:33	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		06/21/19 15:33	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 15:33	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/19 15:33	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 15:33	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/19 15:33	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 15:33	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		06/21/19 15:33	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		06/21/19 15:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		06/21/19 15:33	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		06/21/19 15:33	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/19 15:33	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		06/21/19 15:33	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 15:33	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/19 15:33	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 15:33	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/19 15:33	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 15:33	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 15:33	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/19 15:33	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/19 15:33	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 15:33	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/21/19 15:33	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/19 15:33	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/19 15:33	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 15:33	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		06/21/19 15:33	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/19 15:33	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/19 15:33	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/21/19 15:33	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/21/19 15:33	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 15:33	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 15:33	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/19 15:33	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 15:33	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		06/21/19 15:33	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 15:33	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		06/21/19 15:33	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/19 15:33	156-59-2	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300659

Sample: Trip Blank **Lab ID: 30300659001** Collected: 06/19/19 00:01 Received: 06/19/19 23:45 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		06/21/19 15:33	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/21/19 15:33	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/19 15:33	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		06/21/19 15:33	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		1		06/21/19 15:33	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	80-120		1		06/21/19 15:33	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		06/21/19 15:33	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		1		06/21/19 15:33	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300659

Sample: CO40-PZM008 **Lab ID: 30300659002** Collected: 06/19/19 09:39 Received: 06/19/19 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		06/21/19 17:14	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 17:14	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 17:14	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 17:14	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/19 17:14	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 17:14	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/19 17:14	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/21/19 17:14	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 17:14	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/19 17:14	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 17:14	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/19 17:14	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 17:14	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/21/19 17:14	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/21/19 17:14	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/21/19 17:14	108-10-1	
Acetone	**52.2**	ug/L	10.0	2.8	1		06/21/19 17:14	67-64-1	ML,R1
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/19 17:14	107-13-1	
Benzene	**241**	ug/L	1.0	0.24	1		06/21/19 17:14	71-43-2	ML
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 17:14	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/19 17:14	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 17:14	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/19 17:14	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 17:14	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 17:14	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/19 17:14	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/19 17:14	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 17:14	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/21/19 17:14	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/19 17:14	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/19 17:14	74-95-3	
Ethylbenzene	**1.6**	ug/L	1.0	0.31	1		06/21/19 17:14	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/21/19 17:14	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/19 17:14	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/19 17:14	75-09-2	
Naphthalene	**61.3**	ug/L	2.0	0.82	1		06/21/19 17:14	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/21/19 17:14	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 17:14	127-18-4	
Toluene	**19.8**	ug/L	1.0	0.30	1		06/21/19 17:14	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/19 17:14	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 17:14	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/21/19 17:14	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 17:14	75-01-4	ML
Xylene (Total)	**16.4**	ug/L	3.0	0.78	1		06/21/19 17:14	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/19 17:14	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 17:14	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300659

Sample: CO40-PZM008 **Lab ID: 30300659002** Collected: 06/19/19 09:39 Received: 06/19/19 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		06/21/19 17:14	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/19 17:14	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/21/19 17:14	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		06/21/19 17:14	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	80-120		1		06/21/19 17:14	17060-07-0	
Toluene-d8 (S)	92	%.	80-120		1		06/21/19 17:14	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		06/21/19 17:14	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300659

Sample: CO27-PZM012 **Lab ID: 30300659003** Collected: 06/19/19 10:23 Received: 06/19/19 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		06/21/19 20:59	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 20:59	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 20:59	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 20:59	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/21/19 20:59	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 20:59	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/21/19 20:59	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/21/19 20:59	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 20:59	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/21/19 20:59	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 20:59	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 20:59	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 20:59	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/21/19 20:59	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/21/19 20:59	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/21/19 20:59	108-10-1	
Acetone	**27.4J**	ug/L	50.0	14.2	5		06/21/19 20:59	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/21/19 20:59	107-13-1	
Benzene	**13500**	ug/L	100	24.0	100		06/21/19 21:24	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 20:59	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 20:59	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 20:59	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/21/19 20:59	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 20:59	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 20:59	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/21/19 20:59	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/19 20:59	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/21/19 20:59	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/21/19 20:59	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 20:59	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 20:59	74-95-3	
Ethylbenzene	**121**	ug/L	5.0	1.6	5		06/21/19 20:59	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/21/19 20:59	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 20:59	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/21/19 20:59	75-09-2	
Naphthalene	**667**	ug/L	10.0	4.1	5		06/21/19 20:59	91-20-3	
Styrene	**126**	ug/L	5.0	0.85	5		06/21/19 20:59	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 20:59	127-18-4	
Toluene	**4390**	ug/L	100	30.0	100		06/21/19 21:24	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 20:59	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 20:59	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/21/19 20:59	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 20:59	75-01-4	
Xylene (Total)	**1070**	ug/L	15.0	3.9	5		06/21/19 20:59	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/21/19 20:59	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 20:59	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300659

Sample: CO27-PZM012 **Lab ID: 30300659003** Collected: 06/19/19 10:23 Received: 06/19/19 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		06/21/19 20:59	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/21/19 20:59	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/21/19 20:59	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	78-122		5		06/21/19 20:59	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		5		06/21/19 20:59	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		5		06/21/19 20:59	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		06/21/19 20:59	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300659

Sample: CO27-PZM46 **Lab ID: 30300659004** Collected: 06/19/19 11:01 Received: 06/19/19 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		06/21/19 22:39	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 22:39	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 22:39	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 22:39	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/21/19 22:39	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 22:39	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/21/19 22:39	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/21/19 22:39	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 22:39	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/21/19 22:39	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 22:39	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 22:39	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 22:39	106-46-7	
2-Butanone (MEK)	**11.2J**	ug/L	50.0	10.5	5		06/21/19 22:39	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/21/19 22:39	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/21/19 22:39	108-10-1	
Acetone	**180**	ug/L	50.0	14.2	5		06/21/19 22:39	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/21/19 22:39	107-13-1	
Benzene	**172000**	ug/L	1000	240	1000		06/24/19 19:00	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 22:39	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 22:39	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 22:39	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/21/19 22:39	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 22:39	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 22:39	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/21/19 22:39	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/19 22:39	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/21/19 22:39	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/21/19 22:39	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 22:39	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 22:39	74-95-3	
Ethylbenzene	**443**	ug/L	5.0	1.6	5		06/21/19 22:39	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/21/19 22:39	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 22:39	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/21/19 22:39	75-09-2	
Naphthalene	**1400**	ug/L	10.0	4.1	5		06/21/19 22:39	91-20-3	
Styrene	**85.5**	ug/L	5.0	0.85	5		06/21/19 22:39	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 22:39	127-18-4	
Toluene	**30900**	ug/L	200	60.0	200		06/21/19 23:04	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 22:39	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 22:39	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/21/19 22:39	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 22:39	75-01-4	
Xylene (Total)	**7110**	ug/L	600	156	200		06/21/19 23:04	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/21/19 22:39	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 22:39	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300659

Sample: CO27-PZM46 **Lab ID: 30300659004** Collected: 06/19/19 11:01 Received: 06/19/19 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		06/21/19 22:39	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/21/19 22:39	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/21/19 22:39	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	78-122		5		06/21/19 22:39	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		5		06/21/19 22:39	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		5		06/21/19 22:39	2037-26-5	
Dibromofluoromethane (S)	88	%.	80-120		5		06/21/19 22:39	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300659

Sample: CO38-PZM006 **Lab ID: 30300659005** Collected: 06/19/19 12:13 Received: 06/19/19 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		06/21/19 20:09	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 20:09	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 20:09	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 20:09	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/21/19 20:09	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 20:09	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/21/19 20:09	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/21/19 20:09	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 20:09	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/21/19 20:09	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 20:09	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 20:09	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 20:09	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/21/19 20:09	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/21/19 20:09	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/21/19 20:09	108-10-1	
Acetone	**117**	ug/L	50.0	14.2	5		06/21/19 20:09	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/21/19 20:09	107-13-1	
Benzene	**5940**	ug/L	100	24.0	100		06/21/19 20:34	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 20:09	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 20:09	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 20:09	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/21/19 20:09	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 20:09	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 20:09	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/21/19 20:09	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/19 20:09	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/21/19 20:09	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/21/19 20:09	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 20:09	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 20:09	74-95-3	
Ethylbenzene	**65.2**	ug/L	5.0	1.6	5		06/21/19 20:09	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/21/19 20:09	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 20:09	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/21/19 20:09	75-09-2	
Naphthalene	**1280**	ug/L	10.0	4.1	5		06/21/19 20:09	91-20-3	
Styrene	**35.1**	ug/L	5.0	0.85	5		06/21/19 20:09	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 20:09	127-18-4	
Toluene	**859**	ug/L	5.0	1.5	5		06/21/19 20:09	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 20:09	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 20:09	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/21/19 20:09	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 20:09	75-01-4	
Xylene (Total)	**479**	ug/L	15.0	3.9	5		06/21/19 20:09	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/21/19 20:09	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 20:09	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300659

Sample: CO38-PZM006 **Lab ID: 30300659005** Collected: 06/19/19 12:13 Received: 06/19/19 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		06/21/19 20:09	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/21/19 20:09	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/21/19 20:09	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		5		06/21/19 20:09	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		5		06/21/19 20:09	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		5		06/21/19 20:09	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		06/21/19 20:09	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300659

Sample: CO38-PZM043 **Lab ID: 30300659006** Collected: 06/19/19 12:13 Received: 06/19/19 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		06/26/19 14:14	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/26/19 14:14	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/26/19 14:14	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/26/19 14:14	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/26/19 14:14	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/26/19 14:14	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/26/19 14:14	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/26/19 14:14	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/26/19 14:14	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/26/19 14:14	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/26/19 14:14	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/26/19 14:14	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/26/19 14:14	106-46-7	
2-Butanone (MEK)	**2.4J**	ug/L	10.0	2.1	1		06/26/19 14:14	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/26/19 14:14	591-78-6	
4-Methyl-2-pentanone (MIBK)	**0.47J**	ug/L	10.0	0.37	1		06/26/19 14:14	108-10-1	
Acetone	**217**	ug/L	10.0	2.8	1		06/26/19 14:14	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/26/19 14:14	107-13-1	
Benzene	**3.4**	ug/L	1.0	0.24	1		06/26/19 14:14	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/26/19 14:14	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/26/19 14:14	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/26/19 14:14	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/26/19 14:14	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/26/19 14:14	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/26/19 14:14	56-23-5	
Chlorobenzene	**0.45J**	ug/L	1.0	0.15	1		06/26/19 14:14	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/26/19 14:14	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/26/19 14:14	67-66-3	
Chloromethane	**3.8**	ug/L	1.0	0.68	1		06/26/19 14:14	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/26/19 14:14	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/26/19 14:14	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/26/19 14:14	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/26/19 14:14	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/26/19 14:14	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/26/19 14:14	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/26/19 14:14	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/26/19 14:14	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/26/19 14:14	127-18-4	
Toluene	**0.46J**	ug/L	1.0	0.30	1		06/26/19 14:14	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/26/19 14:14	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/26/19 14:14	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/26/19 14:14	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/26/19 14:14	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		06/26/19 14:14	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/26/19 14:14	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/26/19 14:14	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300659

Sample: CO38-PZM043 **Lab ID: 30300659006** Collected: 06/19/19 12:13 Received: 06/19/19 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		06/26/19 14:14	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/26/19 14:14	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/26/19 14:14	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	78-122		1		06/26/19 14:14	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		06/26/19 14:14	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		1		06/26/19 14:14	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		1		06/26/19 14:14	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300659

Sample: CO36-PZM008 **Lab ID: 30300659007** Collected: 06/19/19 14:25 Received: 06/19/19 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		06/21/19 19:19	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 19:19	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 19:19	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 19:19	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/19 19:19	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 19:19	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/19 19:19	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/21/19 19:19	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 19:19	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/19 19:19	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 19:19	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/19 19:19	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 19:19	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/21/19 19:19	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/21/19 19:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/21/19 19:19	108-10-1	
Acetone	**193**	ug/L	10.0	2.8	1		06/21/19 19:19	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/19 19:19	107-13-1	
Benzene	**11200**	ug/L	200	48.0	200		06/21/19 19:44	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 19:19	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/19 19:19	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 19:19	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/19 19:19	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 19:19	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 19:19	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/19 19:19	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/19 19:19	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 19:19	67-66-3	
Chloromethane	**1.9**	ug/L	1.0	0.68	1		06/21/19 19:19	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/19 19:19	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/19 19:19	74-95-3	
Ethylbenzene	**44.6**	ug/L	1.0	0.31	1		06/21/19 19:19	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/21/19 19:19	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/19 19:19	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/19 19:19	75-09-2	
Naphthalene	**343**	ug/L	2.0	0.82	1		06/21/19 19:19	91-20-3	
Styrene	**12.5**	ug/L	1.0	0.17	1		06/21/19 19:19	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 19:19	127-18-4	
Toluene	**2320**	ug/L	200	60.0	200		06/21/19 19:44	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/19 19:19	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 19:19	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/21/19 19:19	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 19:19	75-01-4	
Xylene (Total)	**763**	ug/L	3.0	0.78	1		06/21/19 19:19	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/19 19:19	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 19:19	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300659

Sample: CO36-PZM008 **Lab ID: 30300659007** Collected: 06/19/19 14:25 Received: 06/19/19 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		06/21/19 19:19	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/19 19:19	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/21/19 19:19	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	78-122		1		06/21/19 19:19	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		1		06/21/19 19:19	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		06/21/19 19:19	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		1		06/21/19 19:19	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300659

Sample: CO36-PZM043 **Lab ID: 30300659008** Collected: 06/19/19 15:05 Received: 06/19/19 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		06/21/19 21:49	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 21:49	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 21:49	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 21:49	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/21/19 21:49	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 21:49	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/21/19 21:49	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/21/19 21:49	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 21:49	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/21/19 21:49	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 21:49	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 21:49	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 21:49	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/21/19 21:49	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/21/19 21:49	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/21/19 21:49	108-10-1	
Acetone	**196**	ug/L	50.0	14.2	5		06/21/19 21:49	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/21/19 21:49	107-13-1	
Benzene	**22400**	ug/L	200	48.0	200		06/21/19 22:14	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 21:49	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 21:49	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 21:49	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/21/19 21:49	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 21:49	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 21:49	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/21/19 21:49	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/19 21:49	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/21/19 21:49	67-66-3	
Chloromethane	**3.4J**	ug/L	5.0	3.4	5		06/21/19 21:49	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 21:49	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 21:49	74-95-3	
Ethylbenzene	**66.0**	ug/L	5.0	1.6	5		06/21/19 21:49	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/21/19 21:49	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 21:49	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/21/19 21:49	75-09-2	
Naphthalene	**517**	ug/L	10.0	4.1	5		06/21/19 21:49	91-20-3	
Styrene	**15.3**	ug/L	5.0	0.85	5		06/21/19 21:49	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 21:49	127-18-4	
Toluene	**3550**	ug/L	200	60.0	200		06/21/19 22:14	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 21:49	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 21:49	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/21/19 21:49	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 21:49	75-01-4	
Xylene (Total)	**985**	ug/L	15.0	3.9	5		06/21/19 21:49	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/21/19 21:49	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 21:49	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300659

Sample: CO36-PZM043 **Lab ID: 30300659008** Collected: 06/19/19 15:05 Received: 06/19/19 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		06/21/19 21:49	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/21/19 21:49	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/21/19 21:49	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	78-122		5		06/21/19 21:49	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		5		06/21/19 21:49	17060-07-0	
Toluene-d8 (S)	92	%.	80-120		5		06/21/19 21:49	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		5		06/21/19 21:49	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300659

QC Batch: 348539 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30300659001, 30300659002, 30300659003, 30300659004, 30300659005, 30300659007, 30300659008

METHOD BLANK: 1694693 Matrix: Water
Associated Lab Samples: 30300659001, 30300659002, 30300659003, 30300659004, 30300659005, 30300659007, 30300659008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	06/21/19 15:08	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	06/21/19 15:08	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	06/21/19 15:08	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	06/21/19 15:08	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	06/21/19 15:08	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	06/21/19 15:08	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	06/21/19 15:08	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	06/21/19 15:08	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	06/21/19 15:08	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	06/21/19 15:08	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	06/21/19 15:08	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	06/21/19 15:08	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	06/21/19 15:08	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	06/21/19 15:08	
2-Hexanone	ug/L	10.0 U	10.0	0.66	06/21/19 15:08	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	06/21/19 15:08	
Acetone	ug/L	10.0 U	10.0	2.8	06/21/19 15:08	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	06/21/19 15:08	
Benzene	ug/L	1.0 U	1.0	0.24	06/21/19 15:08	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	06/21/19 15:08	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	06/21/19 15:08	
Bromoform	ug/L	1.0 U	1.0	0.32	06/21/19 15:08	
Bromomethane	ug/L	1.0 U	1.0	0.49	06/21/19 15:08	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	06/21/19 15:08	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	06/21/19 15:08	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	06/21/19 15:08	
Chloroethane	ug/L	1.0 U	1.0	0.55	06/21/19 15:08	
Chloroform	ug/L	1.0 U	1.0	0.30	06/21/19 15:08	
Chloromethane	ug/L	1.0 U	1.0	0.68	06/21/19 15:08	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	06/21/19 15:08	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	06/21/19 15:08	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	06/21/19 15:08	
Dibromomethane	ug/L	1.0 U	1.0	0.40	06/21/19 15:08	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	06/21/19 15:08	
Iodomethane	ug/L	50.0 U	50.0	0.67	06/21/19 15:08	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	06/21/19 15:08	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	06/21/19 15:08	
Naphthalene	ug/L	2.0 U	2.0	0.82	06/21/19 15:08	
Styrene	ug/L	1.0 U	1.0	0.17	06/21/19 15:08	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	06/21/19 15:08	
Toluene	ug/L	1.0 U	1.0	0.30	06/21/19 15:08	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300659

METHOD BLANK: 1694693 Matrix: Water
Associated Lab Samples: 30300659001, 30300659002, 30300659003, 30300659004, 30300659005, 30300659007, 30300659008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	06/21/19 15:08	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	06/21/19 15:08	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	06/21/19 15:08	
Trichloroethene	ug/L	1.0 U	1.0	0.39	06/21/19 15:08	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	06/21/19 15:08	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	06/21/19 15:08	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	06/21/19 15:08	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	06/21/19 15:08	
1,2-Dichloroethane-d4 (S)	%.	107	80-120		06/21/19 15:08	
4-Bromofluorobenzene (S)	%.	100	78-122		06/21/19 15:08	
Dibromofluoromethane (S)	%.	100	80-120		06/21/19 15:08	
Toluene-d8 (S)	%.	94	80-120		06/21/19 15:08	

LABORATORY CONTROL SAMPLE: 1694694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.2	101	70-130	
1,1,1-Trichloroethane	ug/L	20	20.1	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.5	107	70-130	
1,1,2-Trichloroethane	ug/L	20	20.6	103	70-130	
1,1-Dichloroethane	ug/L	20	20.0	100	68-121	
1,1-Dichloroethene	ug/L	20	17.0	85	63-129	
1,2,3-Trichloropropane	ug/L	20	20.9	105	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	21.2	106	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.6	103	70-130	
1,2-Dichlorobenzene	ug/L	20	22.5	112	70-130	
1,2-Dichloroethane	ug/L	20	19.3	96	67-117	
1,2-Dichloropropane	ug/L	20	22.1	110	69-121	
1,4-Dichlorobenzene	ug/L	20	21.9	110	70-130	
2-Butanone (MEK)	ug/L	20	19.1	95	59-128	
2-Hexanone	ug/L	20	16.4	82	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.3	92	63-126	
Acetone	ug/L	20	20.5	103	37-150	
Acrylonitrile	ug/L	20	21.2	106	62-128	
Benzene	ug/L	20	21.5	107	70-130	
Bromochloromethane	ug/L	20	20.6	103	59-137	
Bromodichloromethane	ug/L	20	23.0	115	70-130	
Bromoform	ug/L	20	18.4	92	65-130	
Bromomethane	ug/L	20	22.1	111	45-148	
Carbon disulfide	ug/L	20	21.1	105	55-123	
Carbon tetrachloride	ug/L	20	20.1	100	69-126	
Chlorobenzene	ug/L	20	21.2	106	70-130	
Chloroethane	ug/L	20	23.2	116	68-146	
Chloroform	ug/L	20	20.3	102	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300659

LABORATORY CONTROL SAMPLE: 1694694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	14.9	74	56-129	
cis-1,2-Dichloroethene	ug/L	20	19.1	95	66-118	
cis-1,3-Dichloropropene	ug/L	20	22.5	113	70-130	
Dibromochloromethane	ug/L	20	18.4	92	70-130	
Dibromomethane	ug/L	20	21.8	109	70-130	
Ethylbenzene	ug/L	20	22.0	110	70-130	
Iodomethane	ug/L	20	15.7J	78	10-175	
Methyl-tert-butyl ether	ug/L	20	21.0	105	70-130	
Methylene Chloride	ug/L	20	15.8	79	65-124	
Naphthalene	ug/L	20	19.4	97	69-135	
Styrene	ug/L	20	22.4	112	70-130	
Tetrachloroethene	ug/L	20	21.4	107	70-130	
Toluene	ug/L	20	21.0	105	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.4	92	64-123	
trans-1,3-Dichloropropene	ug/L	20	21.1	106	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	16.2	81	37-119	
Trichloroethene	ug/L	20	19.9	100	70-130	
Trichlorofluoromethane	ug/L	20	22.8	114	64-163	
Vinyl acetate	ug/L	20	16.9	84	45-129	
Vinyl chloride	ug/L	20	17.0	85	70-130	
Xylene (Total)	ug/L	60	69.2	115	70-130	
1,2-Dichloroethane-d4 (S)	%.			104	80-120	
4-Bromofluorobenzene (S)	%.			99	78-122	
Dibromofluoromethane (S)	%.			104	80-120	
Toluene-d8 (S)	%.			94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1695698 1695699

Parameter	Units	30300659002 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	18.8	92	94	52-123	1	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	18.6	18.4	93	92	67-127	1	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	19.6	19.7	98	99	55-118	1	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.4	19.0	97	95	60-117	2	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	17.7	17.2	88	86	68-118	2	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	15.1	15.8	75	79	62-126	5	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	20.6	21.2	103	106	56-129	3	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	22.0	22.6	110	113	46-130	2	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.9	18.4	95	92	69-124	3	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	20.2	20.4	101	102	66-116	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	17.6	18.6	88	93	67-117	6	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	18.7	20.2	94	101	61-128	8	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	20.3	20.6	101	103	68-116	1	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	20.0	18.9	100	94	63-175	6	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300659

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1695698 1695699

Parameter	Units	30300659002 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	17.2	89	86	65-151	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	18.9	18.9	94	95	66-149	0	30	
Acetone	ug/L	52.2	20	20	32.0	60.8	-101	43	10-175	62	30	ML,R1
Acrylonitrile	ug/L	4.0 U	20	20	14.7	16.8	73	84	42-165	13	30	
Benzene	ug/L	241	20	20	240	265	-4	120	67-119	10	30	ML
Bromochloromethane	ug/L	1.0 U	20	20	17.9	18.5	90	93	64-124	3	30	
Bromodichloromethane	ug/L	1.0 U	20	20	20.2	20.4	101	102	67-126	1	30	
Bromoform	ug/L	1.0 U	20	20	15.6	15.8	78	79	43-114	2	30	
Bromomethane	ug/L	1.0 U	20	20	9.9	10.0	49	50	10-164	2	30	
Carbon disulfide	ug/L	1.0 U	20	20	16.6	17.1	82	85	37-135	3	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	18.5	17.9	93	90	60-137	3	30	
Chlorobenzene	ug/L	1.0 U	20	20	19.8	19.7	99	98	68-119	1	30	
Chloroethane	ug/L	1.0 U	20	20	13.6	12.2	68	61	54-169	11	30	
Chloroform	ug/L	1.0 U	20	20	18.0	19.3	90	96	69-113	7	30	
Chloromethane	ug/L	1.0 U	20	20	9.8	10.6	49	53	43-159	7	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.6	16.8	83	84	65-121	2	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	19.2	19.5	96	97	61-120	1	30	
Dibromochloromethane	ug/L	1.0 U	20	20	16.6	16.5	83	82	56-121	1	30	
Dibromomethane	ug/L	1.0 U	20	20	20.3	20.0	102	100	56-133	1	30	
Ethylbenzene	ug/L	1.6	20	20	22.1	22.4	102	104	69-127	1	30	
Iodomethane	ug/L	50.0 U	20	20	8.0J	8.8J	40	44	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	17.4	17.5	87	88	70-130	1	30	
Methylene Chloride	ug/L	1.0 U	20	20	13.3	14.5	66	72	49-144	8	30	
Naphthalene	ug/L	61.3	20	20	78.2	86.2	84	124	60-136	10	30	
Styrene	ug/L	1.0 U	20	20	22.0	22.0	110	110	65-120	0	30	
Tetrachloroethene	ug/L	1.0 U	20	20	20.2	20.0	101	100	64-123	1	30	
Toluene	ug/L	19.8	20	20	36.2	40.2	82	102	70-130	11	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.5	16.5	82	83	66-119	0	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	19.0	18.8	95	94	52-117	1	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	13.6	13.4	68	67	13-100	2	30	
Trichloroethene	ug/L	1.0 U	20	20	18.5	19.4	92	97	63-125	5	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	15.7	16.1	78	81	43-186	3	30	
Vinyl acetate	ug/L	10.0 U	20	20	13.3	12.8	67	64	35-150	4	30	
Vinyl chloride	ug/L	1.0 U	20	20	12.1	11.2	60	56	60-133	7	30	ML
Xylene (Total)	ug/L	16.4	60	60	80.7	83.2	107	111	69-128	3	30	
1,2-Dichloroethane-d4 (S)	%.						107	106	80-120			
4-Bromofluorobenzene (S)	%.						100	99	78-122			
Dibromofluoromethane (S)	%.						102	101	80-120			
Toluene-d8 (S)	%.						96	92	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300659

QC Batch: 349139 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30300659006

METHOD BLANK: 1697545 Matrix: Water
Associated Lab Samples: 30300659006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	06/26/19 12:56	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	06/26/19 12:56	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	06/26/19 12:56	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	06/26/19 12:56	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	06/26/19 12:56	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	06/26/19 12:56	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	06/26/19 12:56	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	06/26/19 12:56	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	06/26/19 12:56	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	06/26/19 12:56	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	06/26/19 12:56	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	06/26/19 12:56	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	06/26/19 12:56	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	06/26/19 12:56	
2-Hexanone	ug/L	10.0 U	10.0	0.66	06/26/19 12:56	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	06/26/19 12:56	
Acetone	ug/L	4.3J	10.0	2.8	06/26/19 12:56	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	06/26/19 12:56	
Benzene	ug/L	1.0 U	1.0	0.24	06/26/19 12:56	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	06/26/19 12:56	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	06/26/19 12:56	
Bromoform	ug/L	1.0 U	1.0	0.32	06/26/19 12:56	
Bromomethane	ug/L	1.0 U	1.0	0.49	06/26/19 12:56	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	06/26/19 12:56	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	06/26/19 12:56	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	06/26/19 12:56	
Chloroethane	ug/L	1.0 U	1.0	0.55	06/26/19 12:56	
Chloroform	ug/L	1.0 U	1.0	0.30	06/26/19 12:56	
Chloromethane	ug/L	1.0 U	1.0	0.68	06/26/19 12:56	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	06/26/19 12:56	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	06/26/19 12:56	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	06/26/19 12:56	
Dibromomethane	ug/L	1.0 U	1.0	0.40	06/26/19 12:56	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	06/26/19 12:56	
Iodomethane	ug/L	50.0 U	50.0	0.67	06/26/19 12:56	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	06/26/19 12:56	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	06/26/19 12:56	
Naphthalene	ug/L	2.0 U	2.0	0.82	06/26/19 12:56	
Styrene	ug/L	1.0 U	1.0	0.17	06/26/19 12:56	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	06/26/19 12:56	
Toluene	ug/L	1.0 U	1.0	0.30	06/26/19 12:56	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300659

METHOD BLANK: 1697545 Matrix: Water
Associated Lab Samples: 30300659006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	06/26/19 12:56	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	06/26/19 12:56	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	06/26/19 12:56	
Trichloroethene	ug/L	1.0 U	1.0	0.39	06/26/19 12:56	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	06/26/19 12:56	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	06/26/19 12:56	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	06/26/19 12:56	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	06/26/19 12:56	
1,2-Dichloroethane-d4 (S)	%.	107	80-120		06/26/19 12:56	
4-Bromofluorobenzene (S)	%.	104	78-122		06/26/19 12:56	
Dibromofluoromethane (S)	%.	100	80-120		06/26/19 12:56	
Toluene-d8 (S)	%.	97	80-120		06/26/19 12:56	

LABORATORY CONTROL SAMPLE: 1697546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.8	99	70-130	
1,1,1-Trichloroethane	ug/L	20	18.5	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.1	100	70-130	
1,1,2-Trichloroethane	ug/L	20	19.5	98	70-130	
1,1-Dichloroethane	ug/L	20	16.6	83	68-121	
1,1-Dichloroethene	ug/L	20	13.3	66	63-129	
1,2,3-Trichloropropane	ug/L	20	21.1	105	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	20.9	104	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.6	103	70-130	
1,2-Dichlorobenzene	ug/L	20	20.8	104	70-130	
1,2-Dichloroethane	ug/L	20	17.5	88	67-117	
1,2-Dichloropropane	ug/L	20	19.2	96	69-121	
1,4-Dichlorobenzene	ug/L	20	21.0	105	70-130	
2-Butanone (MEK)	ug/L	20	16.6	83	59-128	
2-Hexanone	ug/L	20	16.4	82	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.3	81	63-126	
Acetone	ug/L	20	22.5	112	37-150	
Acrylonitrile	ug/L	20	12.9	64	62-128	
Benzene	ug/L	20	18.6	93	70-130	
Bromochloromethane	ug/L	20	18.2	91	59-137	
Bromodichloromethane	ug/L	20	20.5	103	70-130	
Bromoform	ug/L	20	21.2	106	65-130	
Bromomethane	ug/L	20	13.7	69	45-148	
Carbon disulfide	ug/L	20	19.0	95	55-123	
Carbon tetrachloride	ug/L	20	17.9	90	69-126	
Chlorobenzene	ug/L	20	20.2	101	70-130	
Chloroethane	ug/L	20	21.7	108	68-146	
Chloroform	ug/L	20	18.2	91	69-116	

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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.: 30300659

LABORATORY CONTROL SAMPLE: 1697546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	19.6	98	56-129	
cis-1,2-Dichloroethene	ug/L	20	15.9	80	66-118	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	70-130	
Dibromochloromethane	ug/L	20	20.3	102	70-130	
Dibromomethane	ug/L	20	20.3	101	70-130	
Ethylbenzene	ug/L	20	21.1	105	70-130	
Iodomethane	ug/L	20	9.8J	49	10-175	
Methyl-tert-butyl ether	ug/L	20	19.5	98	70-130	
Methylene Chloride	ug/L	20	13.7	69	65-124	
Naphthalene	ug/L	20	18.4	92	69-135	
Styrene	ug/L	20	20.8	104	70-130	
Tetrachloroethene	ug/L	20	20.6	103	70-130	
Toluene	ug/L	20	19.3	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	15.3	76	64-123	
trans-1,3-Dichloropropene	ug/L	20	20.9	104	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	15.9	80	37-119	
Trichloroethene	ug/L	20	20.4	102	70-130	
Trichlorofluoromethane	ug/L	20	19.1	96	64-163	
Vinyl acetate	ug/L	20	16.9	84	45-129	
Vinyl chloride	ug/L	20	19.6	98	70-130	
Xylene (Total)	ug/L	60	63.6	106	70-130	
1,2-Dichloroethane-d4 (S)	%.			105	80-120	
4-Bromofluorobenzene (S)	%.			100	78-122	
Dibromofluoromethane (S)	%.			98	80-120	
Toluene-d8 (S)	%.			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697547 1697548

Parameter	Units	30300577001 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	23.2	20.4	116	102	52-123	13	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.5	20.8	112	104	67-127	8	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.0	19.3	105	97	55-118	8	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	22.5	19.9	112	100	60-117	12	30	
1,1-Dichloroethane	ug/L	ND	20	20	19.7	17.5	98	88	68-118	12	30	
1,1-Dichloroethene	ug/L	ND	20	20	14.7	14.2	74	71	62-126	4	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	22.3	21.0	112	105	56-129	6	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.7	20.3	108	101	46-130	7	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	23.4	21.0	117	105	69-124	11	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	23.4	20.4	117	102	66-116	13	30	MH
1,2-Dichloroethane	ug/L	ND	20	20	21.5	17.8	107	89	67-117	19	30	
1,2-Dichloropropane	ug/L	ND	20	20	21.2	19.1	106	95	61-128	10	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	22.7	20.5	113	103	68-116	10	30	
2-Butanone (MEK)	ug/L	ND	20	20	18.6	17.5	93	87	63-175	6	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.

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300659

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697547 1697548

Parameter	Units	30300577001 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	17.3	16.4	86	82	65-151	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	18.1	16.6	91	83	66-149	9	30	
Acetone	ug/L	ND	20	20	21.1	20.9	105	105	10-175	1	30	
Acrylonitrile	ug/L	ND	20	20	19.4	13.7	97	68	42-165	35	30	R1
Benzene	ug/L	ND	20	20	20.7	18.9	104	94	67-119	9	30	
Bromochloromethane	ug/L	ND	20	20	20.8	18.8	104	94	64-124	10	30	
Bromodichloromethane	ug/L	ND	20	20	24.5	22.0	122	110	67-126	11	30	
Bromoform	ug/L	ND	20	20	23.6	21.4	118	107	43-114	10	30	MH
Bromomethane	ug/L	ND	20	20	17.3	18.1	86	91	10-164	5	30	
Carbon disulfide	ug/L	ND	20	20	19.5	20.9	98	104	37-135	7	30	
Carbon tetrachloride	ug/L	ND	20	20	22.2	19.8	111	99	60-137	11	30	
Chlorobenzene	ug/L	ND	20	20	22.8	21.0	114	105	68-119	8	30	
Chloroethane	ug/L	ND	20	20	19.0	22.8	95	114	54-169	18	30	
Chloroform	ug/L	ND	20	20	20.4	18.7	102	93	69-113	9	30	
Chloromethane	ug/L	ND	20	20	15.7	17.1	78	85	43-159	8	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.3	16.1	91	81	65-121	12	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.6	20.0	113	100	61-120	12	30	
Dibromochloromethane	ug/L	ND	20	20	23.8	21.1	119	106	56-121	12	30	
Dibromomethane	ug/L	ND	20	20	22.6	20.8	113	104	56-133	8	30	
Ethylbenzene	ug/L	ND	20	20	23.3	21.2	117	106	69-127	10	30	
Iodomethane	ug/L	ND	20	20	14.7J	17.1J	73	85	10-152		30	
Methyl-tert-butyl ether	ug/L	ND	20	20	23.2	21.5	116	108	70-130	8	30	
Methylene Chloride	ug/L	ND	20	20	14.7	14.7	74	74	49-144	0	30	
Naphthalene	ug/L	ND	20	20	19.5	17.7	97	89	60-136	9	30	
Styrene	ug/L	ND	20	20	23.6	21.2	118	106	65-120	11	30	
Tetrachloroethene	ug/L	ND	20	20	23.0	21.4	115	107	64-123	7	30	
Toluene	ug/L	ND	20	20	22.0	19.9	110	99	70-130	10	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.2	16.0	86	80	66-119	7	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	22.7	20.0	113	100	52-117	13	30	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	16.8	14.4	84	72	13-100	15	30	
Trichloroethene	ug/L	ND	20	20	21.7	20.9	109	104	63-125	4	30	
Trichlorofluoromethane	ug/L	ND	20	20	19.2	21.3	96	106	43-186	10	30	
Vinyl chloride	ug/L	ND	20	20	16.7	18.4	83	92	60-133	10	30	
Xylene (Total)	ug/L	ND	60	60	72.6	64.9	121	108	69-128	11	30	
1,2-Dichloroethane-d4 (S)	%.						110	114	80-120			
4-Bromofluorobenzene (S)	%.						102	101	78-122			
Dibromofluoromethane (S)	%.						94	104	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.

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(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30300659

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.
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
Pace Project No.: 30300659

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30300659001	**Trip Blank**	EPA 8260B	348539		
30300659002	**CO40-PZM008**	EPA 8260B	348539		
30300659003	**CO27-PZM012**	EPA 8260B	348539		
30300659004	**CO27-PZM46**	EPA 8260B	348539		
30300659005	**CO38-PZM006**	EPA 8260B	348539		
30300659006	**CO38-PZM043**	EPA 8260B	349139		
30300659007	**CO36-PZM008**	EPA 8260B	348539		
30300659008	**CO36-PZM043**	EPA 8260B	348539		

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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
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:

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# : 30300659

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	Residl	Pace Project No./ Lab I.D.
1	Trip Blank	WT	-			6/19/19			2				2				X		001
2	CO40-PZM008	GW	G				0939		3				3				X		002
3	CO27-PZM012	GW	G				1023		3				3				X		003
4	CO27-PZM046	GW	G				1101		3				3				X		004
5	CO38-PZM006	GW	G				1213		3				3				X		005
6	CO38-PZM043	GW	G				1243		3				3				X		006
7	CO36-PZM008	GW	G				1425		3				3				X		007
8	CO36-PZM043	GW	G				1505		3				3				X		008
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	6/19/19	1530	[signature]	6/19/19	1545	
	[signature]	6/19/19	2030	RDS FACE	6-19-19	2030	Y
	RDS FACE	6-19-19	2345	[signature]	6/19/19	2345	.8 Y N Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Leandra M Glumac
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/19/19

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: EnviroAnalytics Group Project # # 30300659

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label MLC
LIMS Login MLC

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 1.8 °C Correction Factor: 0 °C Final Temp: 1.8 °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: MLC 6/20/19
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 sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. exceptions: (VOA) coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.	
All containers meet method preservation requirements.	✓			Initial when completed MLC	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	✓			17.	
Trip Blank Present:	✓			18. Both trip blanks have headspace	
Trip Blank Custody Seals Present	✓				
Rad 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

July 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.: 30300924

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2019. 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.: 30300924

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
Florida: Cert E871149 SEKS WET
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.: 30300924

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30300924001	**Trip Blank**	Water	06/20/19 00:01	06/20/19 23:50
30300924002	**CO43-PZM048**	Water	06/20/19 11:55	06/20/19 23:50
30300924003	**CO44-PZM048**	Water	06/20/19 12:43	06/20/19 23:50
30300924004	**CO45-PZM047**	Water	06/20/19 09:20	06/20/19 23:50
30300924005	**CO46-PZM047**	Water	06/20/19 09:43	06/20/19 23:50
30300924006	**CO47-PZM046**	Water	06/20/19 09:57	06/20/19 23:50
30300924007	**CO48-PZM044**	Water	06/20/19 13:20	06/20/19 23:50

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30300924

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30300924001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30300924002	**CO43-PZM048**	EPA 8260B	LEL	53	PASI-PA
30300924003	**CO44-PZM048**	EPA 8260B	LEL	53	PASI-PA
30300924004	**CO45-PZM047**	EPA 8260B	LEL	53	PASI-PA
30300924005	**CO46-PZM047**	EPA 8260B	LEL	53	PASI-PA
30300924006	**CO47-PZM046**	EPA 8260B	LEL	53	PASI-PA
30300924007	**CO48-PZM044**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300924

Sample: Trip Blank **Lab ID: 30300924001** Collected: 06/20/19 00:01 Received: 06/20/19 23:50 Matrix: Water

Comments: • Headspace in both trip blanks 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		06/21/19 15:58	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 15:58	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 15:58	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 15:58	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/19 15:58	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 15:58	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/19 15:58	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		06/21/19 15:58	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 15:58	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/19 15:58	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 15:58	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/19 15:58	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 15:58	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		06/21/19 15:58	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		06/21/19 15:58	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		06/21/19 15:58	108-10-1	
Acetone	**19.1**	ug/L	5.0	2.8	1		06/21/19 15:58	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/19 15:58	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		06/21/19 15:58	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 15:58	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/19 15:58	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 15:58	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/19 15:58	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 15:58	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 15:58	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/19 15:58	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/19 15:58	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 15:58	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/21/19 15:58	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/19 15:58	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/19 15:58	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 15:58	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		06/21/19 15:58	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/19 15:58	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/19 15:58	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/21/19 15:58	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/21/19 15:58	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 15:58	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 15:58	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/19 15:58	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 15:58	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		06/21/19 15:58	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 15:58	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		06/21/19 15:58	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/19 15:58	156-59-2	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300924

Sample: Trip Blank **Lab ID: 30300924001** Collected: 06/20/19 00:01 Received: 06/20/19 23:50 Matrix: Water

Comments: • Headspace in both trip blanks 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		06/21/19 15:58	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/21/19 15:58	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/19 15:58	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		06/21/19 15:58	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	78-122		1		06/21/19 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	80-120		1		06/21/19 15:58	17060-07-0	
Toluene-d8 (S)	92	%.	80-120		1		06/21/19 15:58	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120		1		06/21/19 15:58	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300924

Sample: CO43-PZM048 **Lab ID: 30300924002** Collected: 06/20/19 11:55 Received: 06/20/19 23:50 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		06/21/19 16:23	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 16:23	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 16:23	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 16:23	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/19 16:23	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 16:23	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/19 16:23	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/21/19 16:23	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 16:23	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/19 16:23	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 16:23	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/19 16:23	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 16:23	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/21/19 16:23	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/21/19 16:23	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/21/19 16:23	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		06/21/19 16:23	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/19 16:23	107-13-1	
Benzene	**12100**	ug/L	100	24.0	100		06/24/19 17:41	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 16:23	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/19 16:23	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 16:23	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/19 16:23	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 16:23	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 16:23	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/19 16:23	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/19 16:23	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 16:23	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/21/19 16:23	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/19 16:23	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/19 16:23	74-95-3	
Ethylbenzene	**23.1**	ug/L	1.0	0.31	1		06/21/19 16:23	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/21/19 16:23	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/19 16:23	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/19 16:23	75-09-2	
Naphthalene	**86.0**	ug/L	2.0	0.82	1		06/21/19 16:23	91-20-3	
Styrene	**3.5**	ug/L	1.0	0.17	1		06/21/19 16:23	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 16:23	127-18-4	
Toluene	**471**	ug/L	100	30.0	100		06/24/19 17:41	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/19 16:23	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 16:23	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/21/19 16:23	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 16:23	75-01-4	
Xylene (Total)	**324**	ug/L	3.0	0.78	1		06/21/19 16:23	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/19 16:23	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 16:23	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300924

Sample: CO43-PZM048 **Lab ID: 30300924002** Collected: 06/20/19 11:55 Received: 06/20/19 23:50 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		06/21/19 16:23	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/19 16:23	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/21/19 16:23	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		06/21/19 16:23	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		1		06/21/19 16:23	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		06/21/19 16:23	2037-26-5	
Dibromofluoromethane (S)	87	%.	80-120		1		06/21/19 16:23	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300924

Sample: CO44-PZM048 **Lab ID: 30300924003** Collected: 06/20/19 12:43 Received: 06/20/19 23:50 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		06/21/19 18:04	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 18:04	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 18:04	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 18:04	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/19 18:04	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 18:04	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/19 18:04	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/21/19 18:04	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 18:04	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/19 18:04	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 18:04	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/19 18:04	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 18:04	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/21/19 18:04	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/21/19 18:04	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/21/19 18:04	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		06/21/19 18:04	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/19 18:04	107-13-1	
Benzene	**5830**	ug/L	100	24.0	100		06/24/19 18:08	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 18:04	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/19 18:04	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 18:04	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/19 18:04	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 18:04	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 18:04	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/19 18:04	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/19 18:04	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 18:04	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/21/19 18:04	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/19 18:04	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/19 18:04	74-95-3	
Ethylbenzene	**24.0**	ug/L	1.0	0.31	1		06/21/19 18:04	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/21/19 18:04	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/19 18:04	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/19 18:04	75-09-2	
Naphthalene	**203**	ug/L	2.0	0.82	1		06/21/19 18:04	91-20-3	
Styrene	**4.1**	ug/L	1.0	0.17	1		06/21/19 18:04	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 18:04	127-18-4	
Toluene	**76.6**	ug/L	1.0	0.30	1		06/21/19 18:04	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/19 18:04	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 18:04	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/21/19 18:04	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 18:04	75-01-4	
Xylene (Total)	**175**	ug/L	3.0	0.78	1		06/21/19 18:04	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/19 18:04	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 18:04	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300924

Sample: CO44-PZM048 **Lab ID: 30300924003** Collected: 06/20/19 12:43 Received: 06/20/19 23:50 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		06/21/19 18:04	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/19 18:04	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/21/19 18:04	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		06/21/19 18:04	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		1		06/21/19 18:04	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		06/21/19 18:04	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		1		06/21/19 18:04	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300924

Sample: CO45-PZM047 **Lab ID: 30300924004** Collected: 06/20/19 09:20 Received: 06/20/19 23:50 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		06/21/19 18:29	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 18:29	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 18:29	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 18:29	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/19 18:29	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 18:29	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/19 18:29	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/21/19 18:29	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 18:29	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/19 18:29	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 18:29	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/19 18:29	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/19 18:29	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/21/19 18:29	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/21/19 18:29	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/21/19 18:29	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		06/21/19 18:29	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/19 18:29	107-13-1	
Benzene	**10200**	ug/L	100	24.0	100		06/24/19 18:34	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 18:29	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/19 18:29	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 18:29	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/19 18:29	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 18:29	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/19 18:29	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/19 18:29	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/19 18:29	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/19 18:29	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/21/19 18:29	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/19 18:29	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/19 18:29	74-95-3	
Ethylbenzene	**50.6**	ug/L	1.0	0.31	1		06/21/19 18:29	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/21/19 18:29	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/19 18:29	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/19 18:29	75-09-2	
Naphthalene	**90.7**	ug/L	2.0	0.82	1		06/21/19 18:29	91-20-3	
Styrene	**4.6**	ug/L	1.0	0.17	1		06/21/19 18:29	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/19 18:29	127-18-4	
Toluene	**237**	ug/L	1.0	0.30	1		06/21/19 18:29	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/19 18:29	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/19 18:29	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/21/19 18:29	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/19 18:29	75-01-4	
Xylene (Total)	**390**	ug/L	3.0	0.78	1		06/21/19 18:29	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/19 18:29	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/21/19 18:29	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300924

Sample: CO45-PZM047 **Lab ID: 30300924004** Collected: 06/20/19 09:20 Received: 06/20/19 23:50 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		06/21/19 18:29	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/19 18:29	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/21/19 18:29	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		06/21/19 18:29	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		1		06/21/19 18:29	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		06/21/19 18:29	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		1		06/21/19 18:29	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300924

Sample: CO46-PZM047 **Lab ID: 30300924005** Collected: 06/20/19 09:43 Received: 06/20/19 23:50 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		06/21/19 23:29	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 23:29	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 23:29	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 23:29	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/21/19 23:29	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 23:29	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/21/19 23:29	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/21/19 23:29	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 23:29	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/21/19 23:29	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 23:29	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 23:29	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/21/19 23:29	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/21/19 23:29	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/21/19 23:29	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/21/19 23:29	108-10-1	
Acetone	**25.8J**	ug/L	50.0	14.2	5		06/21/19 23:29	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/21/19 23:29	107-13-1	
Benzene	**268000**	ug/L	1000	240	1000		06/22/19 00:19	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 23:29	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 23:29	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 23:29	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/21/19 23:29	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 23:29	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/21/19 23:29	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/21/19 23:29	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/19 23:29	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/21/19 23:29	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/21/19 23:29	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 23:29	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 23:29	74-95-3	
Ethylbenzene	**840**	ug/L	5.0	1.6	5		06/21/19 23:29	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/21/19 23:29	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 23:29	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/21/19 23:29	75-09-2	
Naphthalene	**4980**	ug/L	400	164	200		06/21/19 23:54	91-20-3	
Styrene	**148**	ug/L	5.0	0.85	5		06/21/19 23:29	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 23:29	127-18-4	
Toluene	**33700**	ug/L	200	60.0	200		06/21/19 23:54	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/21/19 23:29	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/19 23:29	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/21/19 23:29	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/21/19 23:29	75-01-4	
Xylene (Total)	**10100**	ug/L	600	156	200		06/21/19 23:54	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/21/19 23:29	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/21/19 23:29	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300924

Sample: CO46-PZM047 **Lab ID: 30300924005** Collected: 06/20/19 09:43 Received: 06/20/19 23:50 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		06/21/19 23:29	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/21/19 23:29	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/21/19 23:29	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	78-122		5		06/21/19 23:29	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		5		06/21/19 23:29	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		5		06/21/19 23:29	2037-26-5	
Dibromofluoromethane (S)	83	%.	80-120		5		06/21/19 23:29	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300924

Sample: CO47-PZM046 **Lab ID: 30300924006** Collected: 06/20/19 09:57 Received: 06/20/19 23:50 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		07/02/19 05:52	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 05:52	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 05:52	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 05:52	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		07/02/19 05:52	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 05:52	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		07/02/19 05:52	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		07/02/19 05:52	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 05:52	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		07/02/19 05:52	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 05:52	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 05:52	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 05:52	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		07/02/19 05:52	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		07/02/19 05:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		07/02/19 05:52	108-10-1	
Acetone	**34.6J**	ug/L	50.0	14.2	5		07/02/19 05:52	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		07/02/19 05:52	107-13-1	
Benzene	**37600**	ug/L	100	24.0	100		07/02/19 06:17	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 05:52	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 05:52	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 05:52	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		07/02/19 05:52	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 05:52	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 05:52	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		07/02/19 05:52	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		07/02/19 05:52	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		07/02/19 05:52	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		07/02/19 05:52	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 05:52	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 05:52	74-95-3	
Ethylbenzene	**328**	ug/L	5.0	1.6	5		07/02/19 05:52	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		07/02/19 05:52	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 05:52	1634-04-4	
Methylene Chloride	**4.4J**	ug/L	5.0	3.8	5		07/02/19 05:52	75-09-2	B
Naphthalene	**1450**	ug/L	10.0	4.1	5		07/02/19 05:52	91-20-3	
Styrene	**390**	ug/L	5.0	0.85	5		07/02/19 05:52	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 05:52	127-18-4	
Toluene	**9830**	ug/L	100	30.0	100		07/02/19 06:17	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 05:52	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 05:52	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		07/02/19 05:52	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 05:52	75-01-4	
Xylene (Total)	**2700**	ug/L	15.0	3.9	5		07/02/19 05:52	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		07/02/19 05:52	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 05:52	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300924

Sample: CO47-PZM046 **Lab ID: 30300924006** Collected: 06/20/19 09:57 Received: 06/20/19 23:50 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		07/02/19 05:52	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		07/02/19 05:52	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		07/02/19 05:52	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		07/02/19 05:52	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		5		07/02/19 05:52	17060-07-0	
Toluene-d8 (S)	103	%.	80-120		5		07/02/19 05:52	2037-26-5	
Dibromofluoromethane (S)	88	%.	80-120		5		07/02/19 05:52	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300924

Sample: CO48-PZM044 **Lab ID: 30300924007** Collected: 06/20/19 13:20 Received: 06/20/19 23:50 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		07/02/19 04:50	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 04:50	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 04:50	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 04:50	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		07/02/19 04:50	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 04:50	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		07/02/19 04:50	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		07/02/19 04:50	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 04:50	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		07/02/19 04:50	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 04:50	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 04:50	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 04:50	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		07/02/19 04:50	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		07/02/19 04:50	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		07/02/19 04:50	108-10-1	
Acetone	**22.9J**	ug/L	50.0	14.2	5		07/02/19 04:50	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		07/02/19 04:50	107-13-1	
Benzene	**15300**	ug/L	500	120	500		07/02/19 05:15	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 04:50	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 04:50	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 04:50	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		07/02/19 04:50	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 04:50	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 04:50	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		07/02/19 04:50	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		07/02/19 04:50	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		07/02/19 04:50	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		07/02/19 04:50	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 04:50	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 04:50	74-95-3	
Ethylbenzene	**331**	ug/L	5.0	1.6	5		07/02/19 04:50	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		07/02/19 04:50	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 04:50	1634-04-4	
Methylene Chloride	**4.0J**	ug/L	5.0	3.8	5		07/02/19 04:50	75-09-2	B
Naphthalene	**1670**	ug/L	10.0	4.1	5		07/02/19 04:50	91-20-3	
Styrene	**481**	ug/L	5.0	0.85	5		07/02/19 04:50	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 04:50	127-18-4	
Toluene	**9130**	ug/L	500	150	500		07/02/19 05:15	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 04:50	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 04:50	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		07/02/19 04:50	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 04:50	75-01-4	
Xylene (Total)	**2690**	ug/L	15.0	3.9	5		07/02/19 04:50	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		07/02/19 04:50	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 04:50	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300924

Sample: CO48-PZM044 **Lab ID: 30300924007** Collected: 06/20/19 13:20 Received: 06/20/19 23:50 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		07/02/19 04:50	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		07/02/19 04:50	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		07/02/19 04:50	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		07/02/19 04:50	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		5		07/02/19 04:50	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		07/02/19 04:50	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		07/02/19 04:50	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300924

QC Batch: 348539 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30300924001, 30300924002, 30300924003, 30300924004, 30300924005

METHOD BLANK: 1694693 Matrix: Water
Associated Lab Samples: 30300924001, 30300924002, 30300924003, 30300924004, 30300924005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	06/21/19 15:08	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	06/21/19 15:08	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	06/21/19 15:08	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	06/21/19 15:08	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	06/21/19 15:08	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	06/21/19 15:08	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	06/21/19 15:08	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	06/21/19 15:08	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	06/21/19 15:08	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	06/21/19 15:08	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	06/21/19 15:08	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	06/21/19 15:08	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	06/21/19 15:08	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	06/21/19 15:08	
2-Hexanone	ug/L	10.0 U	10.0	0.66	06/21/19 15:08	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	06/21/19 15:08	
Acetone	ug/L	10.0 U	10.0	2.8	06/21/19 15:08	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	06/21/19 15:08	
Benzene	ug/L	1.0 U	1.0	0.24	06/21/19 15:08	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	06/21/19 15:08	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	06/21/19 15:08	
Bromoform	ug/L	1.0 U	1.0	0.32	06/21/19 15:08	
Bromomethane	ug/L	1.0 U	1.0	0.49	06/21/19 15:08	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	06/21/19 15:08	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	06/21/19 15:08	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	06/21/19 15:08	
Chloroethane	ug/L	1.0 U	1.0	0.55	06/21/19 15:08	
Chloroform	ug/L	1.0 U	1.0	0.30	06/21/19 15:08	
Chloromethane	ug/L	1.0 U	1.0	0.68	06/21/19 15:08	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	06/21/19 15:08	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	06/21/19 15:08	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	06/21/19 15:08	
Dibromomethane	ug/L	1.0 U	1.0	0.40	06/21/19 15:08	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	06/21/19 15:08	
Iodomethane	ug/L	50.0 U	50.0	0.67	06/21/19 15:08	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	06/21/19 15:08	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	06/21/19 15:08	
Naphthalene	ug/L	2.0 U	2.0	0.82	06/21/19 15:08	
Styrene	ug/L	1.0 U	1.0	0.17	06/21/19 15:08	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	06/21/19 15:08	
Toluene	ug/L	1.0 U	1.0	0.30	06/21/19 15:08	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300924

METHOD BLANK: 1694693 Matrix: Water
Associated Lab Samples: 30300924001, 30300924002, 30300924003, 30300924004, 30300924005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	06/21/19 15:08	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	06/21/19 15:08	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	06/21/19 15:08	
Trichloroethene	ug/L	1.0 U	1.0	0.39	06/21/19 15:08	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	06/21/19 15:08	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	06/21/19 15:08	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	06/21/19 15:08	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	06/21/19 15:08	
1,2-Dichloroethane-d4 (S)	%.	107	80-120		06/21/19 15:08	
4-Bromofluorobenzene (S)	%.	100	78-122		06/21/19 15:08	
Dibromofluoromethane (S)	%.	100	80-120		06/21/19 15:08	
Toluene-d8 (S)	%.	94	80-120		06/21/19 15:08	

LABORATORY CONTROL SAMPLE: 1694694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.2	101	70-130	
1,1,1-Trichloroethane	ug/L	20	20.1	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.5	107	70-130	
1,1,2-Trichloroethane	ug/L	20	20.6	103	70-130	
1,1-Dichloroethane	ug/L	20	20.0	100	68-121	
1,1-Dichloroethene	ug/L	20	17.0	85	63-129	
1,2,3-Trichloropropane	ug/L	20	20.9	105	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	21.2	106	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.6	103	70-130	
1,2-Dichlorobenzene	ug/L	20	22.5	112	70-130	
1,2-Dichloroethane	ug/L	20	19.3	96	67-117	
1,2-Dichloropropane	ug/L	20	22.1	110	69-121	
1,4-Dichlorobenzene	ug/L	20	21.9	110	70-130	
2-Butanone (MEK)	ug/L	20	19.1	95	59-128	
2-Hexanone	ug/L	20	16.4	82	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.3	92	63-126	
Acetone	ug/L	20	20.5	103	37-150	
Acrylonitrile	ug/L	20	21.2	106	62-128	
Benzene	ug/L	20	21.5	107	70-130	
Bromochloromethane	ug/L	20	20.6	103	59-137	
Bromodichloromethane	ug/L	20	23.0	115	70-130	
Bromoform	ug/L	20	18.4	92	65-130	
Bromomethane	ug/L	20	22.1	111	45-148	
Carbon disulfide	ug/L	20	21.1	105	55-123	
Carbon tetrachloride	ug/L	20	20.1	100	69-126	
Chlorobenzene	ug/L	20	21.2	106	70-130	
Chloroethane	ug/L	20	23.2	116	68-146	
Chloroform	ug/L	20	20.3	102	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300924

LABORATORY CONTROL SAMPLE: 1694694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	14.9	74	56-129	
cis-1,2-Dichloroethene	ug/L	20	19.1	95	66-118	
cis-1,3-Dichloropropene	ug/L	20	22.5	113	70-130	
Dibromochloromethane	ug/L	20	18.4	92	70-130	
Dibromomethane	ug/L	20	21.8	109	70-130	
Ethylbenzene	ug/L	20	22.0	110	70-130	
Iodomethane	ug/L	20	15.7J	78	10-175	
Methyl-tert-butyl ether	ug/L	20	21.0	105	70-130	
Methylene Chloride	ug/L	20	15.8	79	65-124	
Naphthalene	ug/L	20	19.4	97	69-135	
Styrene	ug/L	20	22.4	112	70-130	
Tetrachloroethene	ug/L	20	21.4	107	70-130	
Toluene	ug/L	20	21.0	105	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.4	92	64-123	
trans-1,3-Dichloropropene	ug/L	20	21.1	106	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	16.2	81	37-119	
Trichloroethene	ug/L	20	19.9	100	70-130	
Trichlorofluoromethane	ug/L	20	22.8	114	64-163	
Vinyl acetate	ug/L	20	16.9	84	45-129	
Vinyl chloride	ug/L	20	17.0	85	70-130	
Xylene (Total)	ug/L	60	69.2	115	70-130	
1,2-Dichloroethane-d4 (S)	%.			104	80-120	
4-Bromofluorobenzene (S)	%.			99	78-122	
Dibromofluoromethane (S)	%.			104	80-120	
Toluene-d8 (S)	%.			94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1695698 1695699

Parameter	Units	30300659002 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	18.8	92	94	52-123	1	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	18.6	18.4	93	92	67-127	1	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	19.6	19.7	98	99	55-118	1	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.4	19.0	97	95	60-117	2	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	17.7	17.2	88	86	68-118	2	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	15.1	15.8	75	79	62-126	5	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	20.6	21.2	103	106	56-129	3	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	22.0	22.6	110	113	46-130	2	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.9	18.4	95	92	69-124	3	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	20.2	20.4	101	102	66-116	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	17.6	18.6	88	93	67-117	6	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	18.7	20.2	94	101	61-128	8	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	20.3	20.6	101	103	68-116	1	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	20.0	18.9	100	94	63-175	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.: 30300924

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1695698 1695699

Parameter	Units	30300659002 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	17.2	89	86	65-151	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	18.9	18.9	94	95	66-149	0	30	
Acetone	ug/L	52.2	20	20	32.0	60.8	-101	43	10-175	62	30	ML,R1
Acrylonitrile	ug/L	4.0 U	20	20	14.7	16.8	73	84	42-165	13	30	
Benzene	ug/L	241	20	20	240	265	-4	120	67-119	10	30	ML
Bromochloromethane	ug/L	1.0 U	20	20	17.9	18.5	90	93	64-124	3	30	
Bromodichloromethane	ug/L	1.0 U	20	20	20.2	20.4	101	102	67-126	1	30	
Bromoform	ug/L	1.0 U	20	20	15.6	15.8	78	79	43-114	2	30	
Bromomethane	ug/L	1.0 U	20	20	9.9	10.0	49	50	10-164	2	30	
Carbon disulfide	ug/L	1.0 U	20	20	16.6	17.1	82	85	37-135	3	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	18.5	17.9	93	90	60-137	3	30	
Chlorobenzene	ug/L	1.0 U	20	20	19.8	19.7	99	98	68-119	1	30	
Chloroethane	ug/L	1.0 U	20	20	13.6	12.2	68	61	54-169	11	30	
Chloroform	ug/L	1.0 U	20	20	18.0	19.3	90	96	69-113	7	30	
Chloromethane	ug/L	1.0 U	20	20	9.8	10.6	49	53	43-159	7	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.6	16.8	83	84	65-121	2	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	19.2	19.5	96	97	61-120	1	30	
Dibromochloromethane	ug/L	1.0 U	20	20	16.6	16.5	83	82	56-121	1	30	
Dibromomethane	ug/L	1.0 U	20	20	20.3	20.0	102	100	56-133	1	30	
Ethylbenzene	ug/L	1.6	20	20	22.1	22.4	102	104	69-127	1	30	
Iodomethane	ug/L	50.0 U	20	20	8.0J	8.8J	40	44	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	17.4	17.5	87	88	70-130	1	30	
Methylene Chloride	ug/L	1.0 U	20	20	13.3	14.5	66	72	49-144	8	30	
Naphthalene	ug/L	61.3	20	20	78.2	86.2	84	124	60-136	10	30	
Styrene	ug/L	1.0 U	20	20	22.0	22.0	110	110	65-120	0	30	
Tetrachloroethene	ug/L	1.0 U	20	20	20.2	20.0	101	100	64-123	1	30	
Toluene	ug/L	19.8	20	20	36.2	40.2	82	102	70-130	11	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.5	16.5	82	83	66-119	0	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	19.0	18.8	95	94	52-117	1	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	13.6	13.4	68	67	13-100	2	30	
Trichloroethene	ug/L	1.0 U	20	20	18.5	19.4	92	97	63-125	5	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	15.7	16.1	78	81	43-186	3	30	
Vinyl acetate	ug/L	10.0 U	20	20	13.3	12.8	67	64	35-150	4	30	
Vinyl chloride	ug/L	1.0 U	20	20	12.1	11.2	60	56	60-133	7	30	ML
Xylene (Total)	ug/L	16.4	60	60	80.7	83.2	107	111	69-128	3	30	
1,2-Dichloroethane-d4 (S)	%.						107	106	80-120			
4-Bromofluorobenzene (S)	%.						100	99	78-122			
Dibromofluoromethane (S)	%.						102	101	80-120			
Toluene-d8 (S)	%.						96	92	80-120			

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300924

QC Batch: 349935 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30300924006

METHOD BLANK: 1701199 Matrix: Water
Associated Lab Samples: 30300924006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	07/01/19 21:08	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	07/01/19 21:08	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	07/01/19 21:08	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	07/01/19 21:08	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	07/01/19 21:08	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	07/01/19 21:08	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	07/01/19 21:08	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	07/01/19 21:08	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	07/01/19 21:08	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	07/01/19 21:08	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	07/01/19 21:08	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	07/01/19 21:08	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	07/01/19 21:08	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	07/01/19 21:08	
2-Hexanone	ug/L	10.0 U	10.0	0.66	07/01/19 21:08	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	07/01/19 21:08	
Acetone	ug/L	6.0J	10.0	2.8	07/01/19 21:08	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	07/01/19 21:08	
Benzene	ug/L	1.0 U	1.0	0.24	07/01/19 21:08	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	07/01/19 21:08	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	07/01/19 21:08	
Bromoform	ug/L	1.0 U	1.0	0.32	07/01/19 21:08	
Bromomethane	ug/L	0.52J	1.0	0.49	07/01/19 21:08	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	07/01/19 21:08	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	07/01/19 21:08	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	07/01/19 21:08	
Chloroethane	ug/L	1.0 U	1.0	0.55	07/01/19 21:08	
Chloroform	ug/L	1.0 U	1.0	0.30	07/01/19 21:08	
Chloromethane	ug/L	1.0 U	1.0	0.68	07/01/19 21:08	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	07/01/19 21:08	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	07/01/19 21:08	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	07/01/19 21:08	
Dibromomethane	ug/L	1.0 U	1.0	0.40	07/01/19 21:08	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	07/01/19 21:08	
Iodomethane	ug/L	50.0 U	50.0	0.67	07/01/19 21:08	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	07/01/19 21:08	
Methylene Chloride	ug/L	1.1	1.0	0.77	07/01/19 21:08	B
Naphthalene	ug/L	2.0 U	2.0	0.82	07/01/19 21:08	
Styrene	ug/L	1.0 U	1.0	0.17	07/01/19 21:08	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	07/01/19 21:08	
Toluene	ug/L	1.0 U	1.0	0.30	07/01/19 21:08	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300924

METHOD BLANK: 1701199 Matrix: Water
Associated Lab Samples: 30300924006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	07/01/19 21:08	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	07/01/19 21:08	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	07/01/19 21:08	
Trichloroethene	ug/L	1.0 U	1.0	0.39	07/01/19 21:08	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	07/01/19 21:08	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	07/01/19 21:08	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	07/01/19 21:08	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	07/01/19 21:08	
1,2-Dichloroethane-d4 (S)	%.	100	80-120		07/01/19 21:08	
4-Bromofluorobenzene (S)	%.	99	78-122		07/01/19 21:08	
Dibromofluoromethane (S)	%.	99	80-120		07/01/19 21:08	
Toluene-d8 (S)	%.	103	80-120		07/01/19 21:08	

LABORATORY CONTROL SAMPLE: 1701200

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	19.1	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	97	70-130	
1,1,2-Trichloroethane	ug/L	20	20.4	102	70-130	
1,1-Dichloroethane	ug/L	20	18.1	91	68-121	
1,1-Dichloroethene	ug/L	20	17.8	89	63-129	
1,2,3-Trichloropropane	ug/L	20	20.5	103	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.1	96	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.9	104	70-130	
1,2-Dichlorobenzene	ug/L	20	20.2	101	70-130	
1,2-Dichloroethane	ug/L	20	18.6	93	67-117	
1,2-Dichloropropane	ug/L	20	19.8	99	69-121	
1,4-Dichlorobenzene	ug/L	20	20.9	105	70-130	
2-Butanone (MEK)	ug/L	20	17.9	90	59-128	
2-Hexanone	ug/L	20	19.2	96	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.7	94	63-126	
Acetone	ug/L	20	22.3	112	37-150	
Acrylonitrile	ug/L	20	14.2	71	62-128	
Benzene	ug/L	20	19.9	99	70-130	
Bromochloromethane	ug/L	20	19.5	97	59-137	
Bromodichloromethane	ug/L	20	20.9	105	70-130	
Bromoform	ug/L	20	16.5	83	65-130	
Bromomethane	ug/L	20	16.8	84	45-148	
Carbon disulfide	ug/L	20	18.8	94	55-123	
Carbon tetrachloride	ug/L	20	19.7	98	69-126	
Chlorobenzene	ug/L	20	21.1	106	70-130	
Chloroethane	ug/L	20	18.7	94	68-146	
Chloroform	ug/L	20	19.0	95	69-116	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300924

LABORATORY CONTROL SAMPLE: 1701200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	17.6	88	56-129	
cis-1,2-Dichloroethene	ug/L	20	18.9	95	66-118	
cis-1,3-Dichloropropene	ug/L	20	19.7	99	70-130	
Dibromochloromethane	ug/L	20	20.5	102	70-130	
Dibromomethane	ug/L	20	19.8	99	70-130	
Ethylbenzene	ug/L	20	21.0	105	70-130	
Iodomethane	ug/L	20	16.1J	81	10-175	
Methyl-tert-butyl ether	ug/L	20	19.0	95	70-130	
Methylene Chloride	ug/L	20	17.9	89	65-124	
Naphthalene	ug/L	20	21.5	107	69-135	
Styrene	ug/L	20	21.3	107	70-130	
Tetrachloroethene	ug/L	20	21.8	109	70-130	
Toluene	ug/L	20	21.1	105	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	64-123	
trans-1,3-Dichloropropene	ug/L	20	20.4	102	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	18.1	91	37-119	
Trichloroethene	ug/L	20	19.6	98	70-130	
Trichlorofluoromethane	ug/L	20	21.2	106	64-163	
Vinyl acetate	ug/L	20	18.4	92	45-129	
Vinyl chloride	ug/L	20	19.0	95	70-130	
Xylene (Total)	ug/L	60	63.7	106	70-130	
1,2-Dichloroethane-d4 (S)	%.			99	80-120	
4-Bromofluorobenzene (S)	%.			101	78-122	
Dibromofluoromethane (S)	%.			99	80-120	
Toluene-d8 (S)	%.			104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701201 1701202

Parameter	Units	30310157012 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	5.0 U	100	100	96.8	88.9	97	89	52-123	9	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	95.9	86.9	96	87	67-127	10	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	92.8	84.2	93	84	55-118	10	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	101	92.2	101	92	60-117	9	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	87.8	84.4	87	84	68-118	4	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	93.7	85.1	94	85	62-126	10	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	96.3	89.5	96	89	56-129	7	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	84.7	77.7	85	78	46-130	9	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	100	89.6	100	90	69-124	11	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	98.1	90.1	98	90	66-116	9	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	92.0	83.0	92	83	67-117	10	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	96.4	88.5	96	89	61-128	8	30	
1,4-Dichlorobenzene	ug/L	5.0 U	100	100	99.3	92.5	99	93	68-116	7	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	88.1	80.0	84	76	63-175	10	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300924

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701201 1701202

Parameter	Units	30310157012 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	50.0 U	100	100	98.6	85.9	99	86	65-151	14	30	
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	99.4	85.9	99	86	66-149	15	30	
Acetone	ug/L	52.4	100	100	130	124	78	72	10-175	5	30	
Acrylonitrile	ug/L	20.0 U	100	100	108	73.8	108	74	42-165	38	30	R1
Benzene	ug/L	232	100	100	340	330	109	98	67-119	3	30	
Bromochloromethane	ug/L	5.0 U	100	100	106	98.5	106	99	64-124	8	30	
Bromodichloromethane	ug/L	5.0 U	100	100	95.3	89.7	95	90	67-126	6	30	
Bromoform	ug/L	5.0 U	100	100	67.0	63.8	67	64	43-114	5	30	
Bromomethane	ug/L	5.0 U	100	100	73.6	94.1	74	94	10-164	24	30	
Carbon disulfide	ug/L	5.0 U	100	100	95.8	81.6	96	82	37-135	16	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	85.3	84.7	85	85	60-137	1	30	
Chlorobenzene	ug/L	5.0 U	100	100	107	96.7	107	97	68-119	10	30	
Chloroethane	ug/L	5.0 U	100	100	97.9	79.3	98	79	54-169	21	30	
Chloroform	ug/L	5.0 U	100	100	100	89.1	100	89	69-113	12	30	
Chloromethane	ug/L	5.0 U	100	100	89.6	91.8	90	92	43-159	2	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	93.5	87.7	94	88	65-121	6	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	89.9	84.2	90	84	61-120	7	30	
Dibromochloromethane	ug/L	5.0 U	100	100	88.9	83.8	89	84	56-121	6	30	
Dibromomethane	ug/L	5.0 U	100	100	94.9	87.4	95	87	56-133	8	30	
Ethylbenzene	ug/L	14.3	100	100	115	106	100	91	69-127	8	30	
Iodomethane	ug/L	250 U	100	100	92.1J	89.0J	92	89	10-152		30	
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	96.9	83.0	97	83	70-130	15	30	
Methylene Chloride	ug/L	5.1	100	100	93.7	84.3	89	79	49-144	11	30	
Naphthalene	ug/L	1440	100	100	1470	1540	23	95	60-136	5	30	ML
Styrene	ug/L	54.9	100	100	157	147	102	92	65-120	6	30	
Tetrachloroethene	ug/L	5.0 U	100	100	108	99.0	108	99	64-123	8	30	
Toluene	ug/L	125	100	100	219	208	94	83	70-130	6	30	
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	90.4	85.4	90	85	66-119	6	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	93.9	83.6	94	84	52-117	12	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	81.8	73.0	82	73	13-100	11	30	
Trichloroethene	ug/L	5.0 U	100	100	103	93.2	103	93	63-125	10	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	96.9	91.5	97	91	43-186	6	30	
Vinyl acetate	ug/L	50.0 U	100	100	79.5	77.2	80	77	35-150	3	30	
Vinyl chloride	ug/L	5.0 U	100	100	89.5	90.2	90	90	60-133	1	30	
Xylene (Total)	ug/L	278	300	300	526	490	82	70	69-128	7	30	
1,2-Dichloroethane-d4 (S)	%.						97	98	80-120			
4-Bromofluorobenzene (S)	%.						99	102	78-122			
Dibromofluoromethane (S)	%.						97	99	80-120			
Toluene-d8 (S)	%.						104	104	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.: 30300924

QC Batch: 349937 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30300924007

METHOD BLANK: 1701204 Matrix: Water
Associated Lab Samples: 30300924007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	07/01/19 21:20	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	07/01/19 21:20	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	07/01/19 21:20	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	07/01/19 21:20	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	07/01/19 21:20	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	07/01/19 21:20	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	07/01/19 21:20	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	07/01/19 21:20	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	07/01/19 21:20	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	07/01/19 21:20	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	07/01/19 21:20	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	07/01/19 21:20	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	07/01/19 21:20	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	07/01/19 21:20	
2-Hexanone	ug/L	10.0 U	10.0	0.66	07/01/19 21:20	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	07/01/19 21:20	
Acetone	ug/L	5.6J	10.0	2.8	07/01/19 21:20	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	07/01/19 21:20	
Benzene	ug/L	1.0 U	1.0	0.24	07/01/19 21:20	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	07/01/19 21:20	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	07/01/19 21:20	
Bromoform	ug/L	1.0 U	1.0	0.32	07/01/19 21:20	
Bromomethane	ug/L	1.0 U	1.0	0.49	07/01/19 21:20	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	07/01/19 21:20	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	07/01/19 21:20	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	07/01/19 21:20	
Chloroethane	ug/L	1.0 U	1.0	0.55	07/01/19 21:20	
Chloroform	ug/L	1.0 U	1.0	0.30	07/01/19 21:20	
Chloromethane	ug/L	1.0 U	1.0	0.68	07/01/19 21:20	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	07/01/19 21:20	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	07/01/19 21:20	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	07/01/19 21:20	
Dibromomethane	ug/L	1.0 U	1.0	0.40	07/01/19 21:20	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	07/01/19 21:20	
Iodomethane	ug/L	50.0 U	50.0	0.67	07/01/19 21:20	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	07/01/19 21:20	
Methylene Chloride	ug/L	1.0	1.0	0.77	07/01/19 21:20	B
Naphthalene	ug/L	2.0 U	2.0	0.82	07/01/19 21:20	
Styrene	ug/L	1.0 U	1.0	0.17	07/01/19 21:20	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	07/01/19 21:20	
Toluene	ug/L	1.0 U	1.0	0.30	07/01/19 21:20	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300924

METHOD BLANK: 1701204 Matrix: Water
Associated Lab Samples: 30300924007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	07/01/19 21:20	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	07/01/19 21:20	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	07/01/19 21:20	
Trichloroethene	ug/L	1.0 U	1.0	0.39	07/01/19 21:20	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	07/01/19 21:20	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	07/01/19 21:20	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	07/01/19 21:20	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	07/01/19 21:20	
1,2-Dichloroethane-d4 (S)	%.	103	80-120		07/01/19 21:20	
4-Bromofluorobenzene (S)	%.	99	78-122		07/01/19 21:20	
Dibromofluoromethane (S)	%.	101	80-120		07/01/19 21:20	
Toluene-d8 (S)	%.	96	80-120		07/01/19 21:20	

LABORATORY CONTROL SAMPLE: 1701205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.8	99	70-130	
1,1,1-Trichloroethane	ug/L	20	19.7	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	70-130	
1,1,2-Trichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	20	19.1	95	68-121	
1,1-Dichloroethene	ug/L	20	18.2	91	63-129	
1,2,3-Trichloropropane	ug/L	20	19.8	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.7	93	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.4	102	70-130	
1,2-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	18.1	90	67-117	
1,2-Dichloropropane	ug/L	20	18.9	95	69-121	
1,4-Dichlorobenzene	ug/L	20	20.7	103	70-130	
2-Butanone (MEK)	ug/L	20	17.8	89	59-128	
2-Hexanone	ug/L	20	17.7	88	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.0	90	63-126	
Acetone	ug/L	20	20.1	100	37-150	
Acrylonitrile	ug/L	20	15.6	78	62-128	
Benzene	ug/L	20	19.9	99	70-130	
Bromochloromethane	ug/L	20	22.2	111	59-137	
Bromodichloromethane	ug/L	20	21.0	105	70-130	
Bromoform	ug/L	20	16.9	84	65-130	
Bromomethane	ug/L	20	22.2	111	45-148	
Carbon disulfide	ug/L	20	17.8	89	55-123	
Carbon tetrachloride	ug/L	20	20.3	102	69-126	
Chlorobenzene	ug/L	20	20.6	103	70-130	
Chloroethane	ug/L	20	22.1	110	68-146	
Chloroform	ug/L	20	19.8	99	69-116	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300924

LABORATORY CONTROL SAMPLE: 1701205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.9	85	56-129	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	66-118	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	70-130	
Dibromochloromethane	ug/L	20	17.7	89	70-130	
Dibromomethane	ug/L	20	20.0	100	70-130	
Ethylbenzene	ug/L	20	20.4	102	70-130	
Iodomethane	ug/L	20	22.8J	114	10-175	
Methyl-tert-butyl ether	ug/L	20	18.7	93	70-130	
Methylene Chloride	ug/L	20	16.5	83	65-124	
Naphthalene	ug/L	20	20.1	100	69-135	
Styrene	ug/L	20	20.5	102	70-130	
Tetrachloroethene	ug/L	20	20.3	101	70-130	
Toluene	ug/L	20	20.6	103	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.0	95	64-123	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	17.3	86	37-119	
Trichloroethene	ug/L	20	20.0	100	70-130	
Trichlorofluoromethane	ug/L	20	22.1	111	64-163	
Vinyl acetate	ug/L	20	18.0	90	45-129	
Vinyl chloride	ug/L	20	19.9	99	70-130	
Xylene (Total)	ug/L	60	62.1	103	70-130	
1,2-Dichloroethane-d4 (S)	%.			96	80-120	
4-Bromofluorobenzene (S)	%.			102	78-122	
Dibromofluoromethane (S)	%.			98	80-120	
Toluene-d8 (S)	%.			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701206 1701207

Parameter	Units	30310157007 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	5.0 U	100	100	84.8	85.5	85	86	52-123	1	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	86.4	85.1	86	85	67-127	1	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	81.6	83.7	82	84	55-118	3	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	90.8	91.1	91	91	60-117	0	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	90.7	88.4	91	88	68-118	3	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	90.9	88.7	91	89	62-126	2	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	85.5	86.5	85	87	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	76.3	81.6	76	82	46-130	7	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	89.1	88.0	89	88	69-124	1	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	89.0	89.5	89	90	66-116	1	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	87.8	86.1	88	86	67-117	2	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	89.6	91.9	90	92	61-128	3	30	
1,4-Dichlorobenzene	ug/L	5.0 U	100	100	89.5	90.9	90	91	68-116	1	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	79.9	91.3	78	89	63-175	13	30	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300924

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701206 1701207

Parameter	Units	30310157007 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	50.0 U	100	100	79.4	92.0	79	92	65-151	15	30	
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	84.9	96.8	85	97	66-149	13	30	
Acetone	ug/L	33.5J	100	100	106	121	72	87	10-175	14	30	
Acrylonitrile	ug/L	20.0 U	100	100	65.7	79.3	66	79	42-165	19	30	
Benzene	ug/L	228	100	100	340	334	112	106	67-119	2	30	
Bromochloromethane	ug/L	5.0 U	100	100	99.3	96.2	99	96	64-124	3	30	
Bromodichloromethane	ug/L	5.0 U	100	100	91.6	91.9	92	92	67-126	0	30	
Bromoform	ug/L	5.0 U	100	100	61.0	61.1	61	61	43-114	0	30	
Bromomethane	ug/L	3.5J	100	100	41.4	56.9	38	53	10-164	32	30	R1
Carbon disulfide	ug/L	5.0 U	100	100	89.5	101	90	101	37-135	12	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	89.6	84.0	90	84	60-137	7	30	
Chlorobenzene	ug/L	5.0 U	100	100	93.3	93.1	93	93	68-119	0	30	
Chloroethane	ug/L	5.0 U	100	100	97.3	85.5	97	86	54-169	13	30	
Chloroform	ug/L	5.0 U	100	100	92.3	91.6	92	92	69-113	1	30	
Chloromethane	ug/L	5.0 U	100	100	77.7	77.0	78	77	43-159	1	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	87.7	91.7	88	92	65-121	4	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	87.8	84.4	88	84	61-120	4	30	
Dibromochloromethane	ug/L	5.0 U	100	100	72.2	72.4	72	72	56-121	0	30	
Dibromomethane	ug/L	5.0 U	100	100	90.4	90.4	90	90	56-133	0	30	
Ethylbenzene	ug/L	11.5	100	100	105	104	93	93	69-127	1	30	
Iodomethane	ug/L	250 U	100	100	79.6J	133J	77	130	10-152		30	
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	85.6	102	86	102	70-130	17	30	
Methylene Chloride	ug/L	4.6J	100	100	86.6	87.0	82	82	49-144	0	30	
Naphthalene	ug/L	1850	100	100	1870	1980	18	133	60-136	6	30	ML
Styrene	ug/L	23.4	100	100	117	117	93	94	65-120	0	30	
Tetrachloroethene	ug/L	5.0 U	100	100	93.6	92.9	94	93	64-123	1	30	
Toluene	ug/L	81.9	100	100	184	182	103	100	70-130	1	30	
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	90.9	88.8	91	89	66-119	2	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	83.0	82.0	83	82	52-117	1	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	49.0	60.2	49	60	13-100	20	30	
Trichloroethene	ug/L	5.0 U	100	100	93.3	91.6	93	92	63-125	2	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	103	103	103	103	43-186	0	30	
Vinyl acetate	ug/L	50.0 U	100	100	80.3	81.9	80	82	35-150	2	30	
Vinyl chloride	ug/L	5.0 U	100	100	91.4	88.7	91	89	60-133	3	30	
Xylene (Total)	ug/L	187	300	300	472	467	95	93	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%.						99	96	80-120			
4-Bromofluorobenzene (S)	%.						99	99	78-122			
Dibromofluoromethane (S)	%.						100	100	80-120			
Toluene-d8 (S)	%.						98	99	80-120			

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30300924

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 Sampling
Pace Project No.: 30300924

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30300924001	**Trip Blank**	EPA 8260B	348539		
30300924002	**CO43-PZM048**	EPA 8260B	348539		
30300924003	**CO44-PZM048**	EPA 8260B	348539		
30300924004	**CO45-PZM047**	EPA 8260B	348539		
30300924005	**CO46-PZM047**	EPA 8260B	348539		
30300924006	**CO47-PZM046**	EPA 8260B	349935		
30300924007	**CO48-PZM044**	EPA 8260B	349937		

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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.

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: 190227M

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

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				6-20-19			2				2					X			001
2	C043-PZM048		G				1155		3				3					X			002
3	C044-PZM048						1243		3				3					X			003
4	C045-PZM047						0920		3				3					X			004
5	C046-PZM047						0943		3				3					X			005
6	C047-PZM046						0957		3				3					X			006
7	C048-PZM044						1320		3				3					X			007
8																					
9																					
10																					
11																					
12																					

WO# : 30300924
30300924

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
ARM	6-20-19	1452		6/20/19	1710	
	6/20/19	2028	RDS	6/20/19	2030	Y
RDS	6/20/19	2350		6/20/19	2350	3.1 Y N Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Tyler Van Ness
SIGNATURE of SAMPLER: Tyler Van Ness
DATE Signed (MM/DD/YY): 06/20/19

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: EnviroAnalytics Group Project # # 30300924

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Label MLC
LIMS Login MLC

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 3.1 °C Correction Factor: 0 °C Final Temp: 3.1 °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: MLC 6/21/19
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 sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.	
All containers meet method preservation requirements.	✓			Initial when completed MLC	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	✓			17.	
Trip Blank Present:	✓			18. Both Trip Blanks have Headspace	
Trip Blank Custody Seals Present	✓				
Rad 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

July 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.: 30300926

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2019. 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.: 30300926

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
Florida: Cert E871149 SEKS WET
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.: 30300926

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30300926001	**Trip Blank**	Water	06/20/19 00:01	06/20/19 23:50
30300926002	**CO41-PZM001**	Water	06/20/19 09:21	06/20/19 23:50
30300926003	**CO41-PZM036**	Water	06/20/19 09:48	06/20/19 23:50
30300926004	**CO59-PZM002**	Water	06/20/19 10:30	06/20/19 23:50
30300926005	**CO56-PZM001**	Water	06/20/19 11:24	06/20/19 23:50
30300926006	**CO58-PZM001**	Water	06/20/19 12:52	06/20/19 23:50
30300926007	**CO57-PZM002**	Water	06/20/19 14:00	06/20/19 23:50
30300926008	**CO55-PZM000**	Water	06/20/19 14:20	06/20/19 23:50
30300926009	**CO26-PZM007**	Water	06/20/19 15:05	06/20/19 23:50

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30300926

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30300926001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30300926002	**CO41-PZM001**	EPA 8260B	LEL	53	PASI-PA
30300926003	**CO41-PZM036**	EPA 8260B	LEL	53	PASI-PA
30300926004	**CO59-PZM002**	EPA 8260B	LEL	53	PASI-PA
30300926005	**CO56-PZM001**	EPA 8260B	LEL	53	PASI-PA
30300926006	**CO58-PZM001**	EPA 8260B	LEL	53	PASI-PA
30300926007	**CO57-PZM002**	EPA 8260B	LEL	53	PASI-PA
30300926008	**CO55-PZM000**	EPA 8260B	LEL	53	PASI-PA
30300926009	**CO26-PZM007**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: Trip Blank **Lab ID: 30300926001** Collected: 06/20/19 00:01 Received: 06/20/19 23:50 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		07/01/19 21:45	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 21:45	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 21:45	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 21:45	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		07/01/19 21:45	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 21:45	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/01/19 21:45	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		07/01/19 21:45	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 21:45	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/01/19 21:45	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 21:45	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/01/19 21:45	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 21:45	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		07/01/19 21:45	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		07/01/19 21:45	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		07/01/19 21:45	108-10-1	
Acetone	**16.1**	ug/L	5.0	2.8	1		07/01/19 21:45	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/01/19 21:45	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		07/01/19 21:45	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 21:45	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/01/19 21:45	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 21:45	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		07/01/19 21:45	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 21:45	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 21:45	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/01/19 21:45	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/01/19 21:45	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/01/19 21:45	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		07/01/19 21:45	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/01/19 21:45	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/01/19 21:45	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 21:45	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		07/01/19 21:45	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/01/19 21:45	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/01/19 21:45	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		07/01/19 21:45	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		07/01/19 21:45	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 21:45	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		07/01/19 21:45	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/01/19 21:45	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 21:45	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		07/01/19 21:45	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 21:45	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		07/01/19 21:45	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/01/19 21:45	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 21:45	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: Trip Blank **Lab ID: 30300926001** Collected: 06/20/19 00:01 Received: 06/20/19 23:50 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		07/01/19 21:45	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/01/19 21:45	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		07/01/19 21:45	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		07/01/19 21:45	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		1		07/01/19 21:45	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		07/01/19 21:45	2037-26-5	
Dibromofluoromethane (S)	104	%.	80-120		1		07/01/19 21:45	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.: 30300926

Sample: CO41-PZM001 **Lab ID: 30300926002** Collected: 06/20/19 09:21 Received: 06/20/19 23:50 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		07/01/19 22:10	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 22:10	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 22:10	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 22:10	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		07/01/19 22:10	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 22:10	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/01/19 22:10	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		07/01/19 22:10	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 22:10	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/01/19 22:10	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 22:10	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/01/19 22:10	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 22:10	106-46-7	
2-Butanone (MEK)	**6.7J**	ug/L	10.0	2.1	1		07/01/19 22:10	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		07/01/19 22:10	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		07/01/19 22:10	108-10-1	
Acetone	**24.1**	ug/L	10.0	2.8	1		07/01/19 22:10	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/01/19 22:10	107-13-1	
Benzene	**2520**	ug/L	50.0	12.0	50		07/03/19 01:17	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 22:10	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/01/19 22:10	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 22:10	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		07/01/19 22:10	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 22:10	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 22:10	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/01/19 22:10	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/01/19 22:10	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/01/19 22:10	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		07/01/19 22:10	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/01/19 22:10	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/01/19 22:10	74-95-3	
Ethylbenzene	**137**	ug/L	1.0	0.31	1		07/01/19 22:10	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		07/01/19 22:10	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/01/19 22:10	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/01/19 22:10	75-09-2	
Naphthalene	**75.7**	ug/L	2.0	0.82	1		07/01/19 22:10	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		07/01/19 22:10	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 22:10	127-18-4	
Toluene	**1520**	ug/L	50.0	15.0	50		07/03/19 01:17	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/01/19 22:10	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 22:10	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		07/01/19 22:10	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 22:10	75-01-4	
Xylene (Total)	**850**	ug/L	150	39.0	50		07/03/19 01:17	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/01/19 22:10	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 22:10	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: CO41-PZM001 **Lab ID: 30300926002** Collected: 06/20/19 09:21 Received: 06/20/19 23:50 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		07/01/19 22:10	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/01/19 22:10	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		07/01/19 22:10	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		07/01/19 22:10	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		07/01/19 22:10	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		1		07/01/19 22:10	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		07/01/19 22:10	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: CO41-PZM036 **Lab ID: 30300926003** Collected: 06/20/19 09:48 Received: 06/20/19 23:50 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		07/02/19 05:40	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 05:40	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 05:40	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 05:40	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		07/02/19 05:40	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 05:40	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		07/02/19 05:40	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		07/02/19 05:40	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 05:40	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		07/02/19 05:40	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 05:40	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 05:40	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 05:40	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		07/02/19 05:40	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		07/02/19 05:40	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		07/02/19 05:40	108-10-1	
Acetone	**76.9**	ug/L	50.0	14.2	5		07/02/19 05:40	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		07/02/19 05:40	107-13-1	
Benzene	**213000**	ug/L	1000	240	1000		07/02/19 06:30	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 05:40	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 05:40	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 05:40	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		07/02/19 05:40	74-83-9	
Carbon disulfide	**1.9J**	ug/L	5.0	1.6	5		07/02/19 05:40	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 05:40	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		07/02/19 05:40	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		07/02/19 05:40	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		07/02/19 05:40	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		07/02/19 05:40	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 05:40	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 05:40	74-95-3	
Ethylbenzene	**675**	ug/L	5.0	1.6	5		07/02/19 05:40	100-41-4	
Iodomethane	**3.8J**	ug/L	250	3.4	5		07/02/19 05:40	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 05:40	1634-04-4	
Methylene Chloride	**4.6J**	ug/L	5.0	3.8	5		07/02/19 05:40	75-09-2	B
Naphthalene	**328**	ug/L	10.0	4.1	5		07/02/19 05:40	91-20-3	
Styrene	**362**	ug/L	5.0	0.85	5		07/02/19 05:40	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 05:40	127-18-4	
Toluene	**67800**	ug/L	500	150	500		07/02/19 06:05	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 05:40	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 05:40	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		07/02/19 05:40	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 05:40	75-01-4	
Xylene (Total)	**12100**	ug/L	1500	390	500		07/02/19 06:05	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		07/02/19 05:40	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 05:40	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: CO41-PZM036 **Lab ID: 30300926003** Collected: 06/20/19 09:48 Received: 06/20/19 23:50 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		07/02/19 05:40	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		07/02/19 05:40	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		07/02/19 05:40	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		5		07/02/19 05:40	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		5		07/02/19 05:40	17060-07-0	
Toluene-d8 (S)	86	%.	80-120		5		07/02/19 05:40	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		5		07/02/19 05:40	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: CO59-PZM002 **Lab ID: 30300926004** Collected: 06/20/19 10:30 Received: 06/20/19 23:50 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		07/01/19 22:35	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 22:35	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 22:35	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 22:35	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		07/01/19 22:35	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 22:35	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/01/19 22:35	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		07/01/19 22:35	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 22:35	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/01/19 22:35	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 22:35	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/01/19 22:35	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 22:35	106-46-7	
2-Butanone (MEK)	**3.1J**	ug/L	10.0	2.1	1		07/01/19 22:35	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		07/01/19 22:35	591-78-6	
4-Methyl-2-pentanone (MIBK)	**0.89J**	ug/L	10.0	0.37	1		07/01/19 22:35	108-10-1	
Acetone	**304**	ug/L	10.0	2.8	1		07/01/19 22:35	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/01/19 22:35	107-13-1	
Benzene	**2.4**	ug/L	1.0	0.24	1		07/01/19 22:35	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 22:35	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/01/19 22:35	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 22:35	75-25-2	
Bromomethane	**1.6**	ug/L	1.0	0.49	1		07/01/19 22:35	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 22:35	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 22:35	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/01/19 22:35	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/01/19 22:35	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/01/19 22:35	67-66-3	
Chloromethane	**1.5**	ug/L	1.0	0.68	1		07/01/19 22:35	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/01/19 22:35	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/01/19 22:35	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 22:35	100-41-4	
Iodomethane	**3.2J**	ug/L	50.0	0.67	1		07/01/19 22:35	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/01/19 22:35	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/01/19 22:35	75-09-2	
Naphthalene	**5.7**	ug/L	2.0	0.82	1		07/01/19 22:35	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		07/01/19 22:35	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 22:35	127-18-4	
Toluene	**1.3**	ug/L	1.0	0.30	1		07/01/19 22:35	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/01/19 22:35	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 22:35	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		07/01/19 22:35	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 22:35	75-01-4	
Xylene (Total)	**1.3J**	ug/L	3.0	0.78	1		07/01/19 22:35	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/01/19 22:35	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 22:35	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: CO59-PZM002 **Lab ID: 30300926004** Collected: 06/20/19 10:30 Received: 06/20/19 23:50 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		07/01/19 22:35	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/01/19 22:35	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		07/01/19 22:35	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		07/01/19 22:35	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		07/01/19 22:35	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		07/01/19 22:35	2037-26-5	
Dibromofluoromethane (S)	105	%.	80-120		1		07/01/19 22:35	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: CO56-PZM001 **Lab ID: 30300926005** Collected: 06/20/19 11:24 Received: 06/20/19 23:50 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		07/02/19 04:00	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 04:00	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 04:00	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 04:00	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		07/02/19 04:00	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 04:00	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		07/02/19 04:00	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		07/02/19 04:00	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 04:00	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		07/02/19 04:00	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 04:00	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 04:00	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 04:00	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		07/02/19 04:00	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		07/02/19 04:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		07/02/19 04:00	108-10-1	
Acetone	**70.1**	ug/L	50.0	14.2	5		07/02/19 04:00	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		07/02/19 04:00	107-13-1	
Benzene	**229**	ug/L	5.0	1.2	5		07/02/19 04:00	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 04:00	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 04:00	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 04:00	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		07/02/19 04:00	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 04:00	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 04:00	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		07/02/19 04:00	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		07/02/19 04:00	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		07/02/19 04:00	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		07/02/19 04:00	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 04:00	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 04:00	74-95-3	
Ethylbenzene	**8.2**	ug/L	5.0	1.6	5		07/02/19 04:00	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		07/02/19 04:00	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 04:00	1634-04-4	
Methylene Chloride	**4.4J**	ug/L	5.0	3.8	5		07/02/19 04:00	75-09-2	B
Naphthalene	**1930**	ug/L	10.0	4.1	5		07/02/19 04:00	91-20-3	
Styrene	**41.2**	ug/L	5.0	0.85	5		07/02/19 04:00	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 04:00	127-18-4	
Toluene	**88.1**	ug/L	5.0	1.5	5		07/02/19 04:00	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 04:00	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 04:00	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		07/02/19 04:00	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 04:00	75-01-4	
Xylene (Total)	**186**	ug/L	15.0	3.9	5		07/02/19 04:00	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		07/02/19 04:00	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 04:00	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: CO56-PZM001 **Lab ID: 30300926005** Collected: 06/20/19 11:24 Received: 06/20/19 23:50 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		07/02/19 04:00	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		07/02/19 04:00	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		07/02/19 04:00	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		5		07/02/19 04:00	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		5		07/02/19 04:00	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		07/02/19 04:00	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		07/02/19 04:00	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: CO58-PZM001 **Lab ID: 30300926006** Collected: 06/20/19 12:52 Received: 06/20/19 23:50 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		07/02/19 02:20	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/02/19 02:20	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 02:20	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 02:20	79-00-5	
1,1-Dichloroethane	**0.56J**	ug/L	1.0	0.19	1		07/02/19 02:20	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/02/19 02:20	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/02/19 02:20	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		07/02/19 02:20	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 02:20	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/02/19 02:20	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/02/19 02:20	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/02/19 02:20	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 02:20	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		07/02/19 02:20	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		07/02/19 02:20	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		07/02/19 02:20	108-10-1	
Acetone	**72.2**	ug/L	10.0	2.8	1		07/02/19 02:20	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/02/19 02:20	107-13-1	
Benzene	**180**	ug/L	1.0	0.24	1		07/02/19 02:20	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 02:20	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/02/19 02:20	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 02:20	75-25-2	
Bromomethane	**0.62J**	ug/L	1.0	0.49	1		07/02/19 02:20	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 02:20	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 02:20	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/02/19 02:20	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/02/19 02:20	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/02/19 02:20	67-66-3	
Chloromethane	**0.82J**	ug/L	1.0	0.68	1		07/02/19 02:20	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/02/19 02:20	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/02/19 02:20	74-95-3	
Ethylbenzene	**7.9**	ug/L	1.0	0.31	1		07/02/19 02:20	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		07/02/19 02:20	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/02/19 02:20	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/02/19 02:20	75-09-2	
Naphthalene	**1320**	ug/L	40.0	16.4	20		07/02/19 02:45	91-20-3	
Styrene	**14.9**	ug/L	1.0	0.17	1		07/02/19 02:20	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 02:20	127-18-4	
Toluene	**51.7**	ug/L	1.0	0.30	1		07/02/19 02:20	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/02/19 02:20	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/02/19 02:20	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		07/02/19 02:20	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/02/19 02:20	75-01-4	
Xylene (Total)	**123**	ug/L	3.0	0.78	1		07/02/19 02:20	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/02/19 02:20	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		07/02/19 02:20	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: CO58-PZM001 **Lab ID: 30300926006** Collected: 06/20/19 12:52 Received: 06/20/19 23:50 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		07/02/19 02:20	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/02/19 02:20	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		07/02/19 02:20	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		07/02/19 02:20	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		07/02/19 02:20	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		07/02/19 02:20	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		1		07/02/19 02:20	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: CO57-PZM002 **Lab ID: 30300926007** Collected: 06/20/19 14:00 Received: 06/20/19 23:50 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		07/01/19 23:00	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 23:00	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 23:00	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 23:00	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		07/01/19 23:00	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 23:00	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/01/19 23:00	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		07/01/19 23:00	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 23:00	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/01/19 23:00	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 23:00	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/01/19 23:00	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 23:00	106-46-7	
2-Butanone (MEK)	**3.7J**	ug/L	10.0	2.1	1		07/01/19 23:00	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		07/01/19 23:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		07/01/19 23:00	108-10-1	
Acetone	**321**	ug/L	10.0	2.8	1		07/01/19 23:00	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/01/19 23:00	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		07/01/19 23:00	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 23:00	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/01/19 23:00	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 23:00	75-25-2	
Bromomethane	**2.5**	ug/L	1.0	0.49	1		07/01/19 23:00	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 23:00	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 23:00	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/01/19 23:00	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/01/19 23:00	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/01/19 23:00	67-66-3	
Chloromethane	**3.2**	ug/L	1.0	0.68	1		07/01/19 23:00	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/01/19 23:00	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/01/19 23:00	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 23:00	100-41-4	
Iodomethane	**3.2J**	ug/L	50.0	0.67	1		07/01/19 23:00	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/01/19 23:00	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/01/19 23:00	75-09-2	
Naphthalene	**10.6**	ug/L	2.0	0.82	1		07/01/19 23:00	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		07/01/19 23:00	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 23:00	127-18-4	
Toluene	**0.45J**	ug/L	1.0	0.30	1		07/01/19 23:00	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/01/19 23:00	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 23:00	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		07/01/19 23:00	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 23:00	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		07/01/19 23:00	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/01/19 23:00	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 23:00	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: CO57-PZM002 **Lab ID: 30300926007** Collected: 06/20/19 14:00 Received: 06/20/19 23:50 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		07/01/19 23:00	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/01/19 23:00	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		07/01/19 23:00	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		07/01/19 23:00	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		1		07/01/19 23:00	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		07/01/19 23:00	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		07/01/19 23:00	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: CO55-PZM000 **Lab ID: 30300926008** Collected: 06/20/19 14:20 Received: 06/20/19 23:50 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		07/01/19 22:23	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 22:23	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 22:23	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 22:23	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		07/01/19 22:23	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 22:23	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/01/19 22:23	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		07/01/19 22:23	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 22:23	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/01/19 22:23	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 22:23	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/01/19 22:23	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 22:23	106-46-7	
2-Butanone (MEK)	**2.6J**	ug/L	10.0	2.1	1		07/01/19 22:23	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		07/01/19 22:23	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		07/01/19 22:23	108-10-1	
Acetone	**320**	ug/L	10.0	2.8	1		07/01/19 22:23	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/01/19 22:23	107-13-1	
Benzene	**3.5**	ug/L	1.0	0.24	1		07/01/19 22:23	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 22:23	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/01/19 22:23	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 22:23	75-25-2	
Bromomethane	**5.2**	ug/L	1.0	0.49	1		07/01/19 22:23	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 22:23	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 22:23	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/01/19 22:23	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/01/19 22:23	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/01/19 22:23	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		07/01/19 22:23	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/01/19 22:23	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/01/19 22:23	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 22:23	100-41-4	
Iodomethane	**2.1J**	ug/L	50.0	0.67	1		07/01/19 22:23	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/01/19 22:23	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/01/19 22:23	75-09-2	
Naphthalene	**5.8**	ug/L	2.0	0.82	1		07/01/19 22:23	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		07/01/19 22:23	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 22:23	127-18-4	
Toluene	**3.8**	ug/L	1.0	0.30	1		07/01/19 22:23	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/01/19 22:23	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 22:23	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		07/01/19 22:23	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 22:23	75-01-4	
Xylene (Total)	**4.2**	ug/L	3.0	0.78	1		07/01/19 22:23	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/01/19 22:23	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 22:23	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: CO55-PZM000 **Lab ID: 30300926008** Collected: 06/20/19 14:20 Received: 06/20/19 23:50 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		07/01/19 22:23	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/01/19 22:23	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		07/01/19 22:23	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		07/01/19 22:23	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		1		07/01/19 22:23	17060-07-0	
Toluene-d8 (S)	104	%.	80-120		1		07/01/19 22:23	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		1		07/01/19 22:23	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: CO26-PZM007 **Lab ID: 30300926009** Collected: 06/20/19 15:05 Received: 06/20/19 23:50 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		07/01/19 23:50	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 23:50	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 23:50	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 23:50	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		07/01/19 23:50	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 23:50	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/01/19 23:50	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		07/01/19 23:50	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 23:50	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/01/19 23:50	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 23:50	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/01/19 23:50	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 23:50	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		07/01/19 23:50	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		07/01/19 23:50	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		07/01/19 23:50	108-10-1	
Acetone	**4.8J**	ug/L	10.0	2.8	1		07/01/19 23:50	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/01/19 23:50	107-13-1	
Benzene	**201**	ug/L	1.0	0.24	1		07/01/19 23:50	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 23:50	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/01/19 23:50	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 23:50	75-25-2	
Bromomethane	**2.0**	ug/L	1.0	0.49	1		07/01/19 23:50	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 23:50	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 23:50	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/01/19 23:50	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/01/19 23:50	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/01/19 23:50	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		07/01/19 23:50	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/01/19 23:50	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/01/19 23:50	74-95-3	
Ethylbenzene	**9.8**	ug/L	1.0	0.31	1		07/01/19 23:50	100-41-4	
Iodomethane	**2.6J**	ug/L	50.0	0.67	1		07/01/19 23:50	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/01/19 23:50	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/01/19 23:50	75-09-2	
Naphthalene	**2590**	ug/L	40.0	16.4	20		07/02/19 00:15	91-20-3	
Styrene	**29.0**	ug/L	1.0	0.17	1		07/01/19 23:50	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 23:50	127-18-4	
Toluene	**117**	ug/L	1.0	0.30	1		07/01/19 23:50	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/01/19 23:50	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 23:50	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		07/01/19 23:50	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 23:50	75-01-4	
Xylene (Total)	**207**	ug/L	3.0	0.78	1		07/01/19 23:50	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/01/19 23:50	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 23:50	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30300926

Sample: CO26-PZM007 **Lab ID: 30300926009** Collected: 06/20/19 15:05 Received: 06/20/19 23:50 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		07/01/19 23:50	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/01/19 23:50	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		07/01/19 23:50	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		07/01/19 23:50	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		1		07/01/19 23:50	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		07/01/19 23:50	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		07/01/19 23:50	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300926

QC Batch: 349935 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30300926008

METHOD BLANK: 1701199 Matrix: Water
Associated Lab Samples: 30300926008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	07/01/19 21:08	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	07/01/19 21:08	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	07/01/19 21:08	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	07/01/19 21:08	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	07/01/19 21:08	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	07/01/19 21:08	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	07/01/19 21:08	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	07/01/19 21:08	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	07/01/19 21:08	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	07/01/19 21:08	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	07/01/19 21:08	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	07/01/19 21:08	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	07/01/19 21:08	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	07/01/19 21:08	
2-Hexanone	ug/L	10.0 U	10.0	0.66	07/01/19 21:08	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	07/01/19 21:08	
Acetone	ug/L	6.0J	10.0	2.8	07/01/19 21:08	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	07/01/19 21:08	
Benzene	ug/L	1.0 U	1.0	0.24	07/01/19 21:08	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	07/01/19 21:08	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	07/01/19 21:08	
Bromoform	ug/L	1.0 U	1.0	0.32	07/01/19 21:08	
Bromomethane	ug/L	0.52J	1.0	0.49	07/01/19 21:08	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	07/01/19 21:08	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	07/01/19 21:08	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	07/01/19 21:08	
Chloroethane	ug/L	1.0 U	1.0	0.55	07/01/19 21:08	
Chloroform	ug/L	1.0 U	1.0	0.30	07/01/19 21:08	
Chloromethane	ug/L	1.0 U	1.0	0.68	07/01/19 21:08	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	07/01/19 21:08	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	07/01/19 21:08	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	07/01/19 21:08	
Dibromomethane	ug/L	1.0 U	1.0	0.40	07/01/19 21:08	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	07/01/19 21:08	
Iodomethane	ug/L	50.0 U	50.0	0.67	07/01/19 21:08	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	07/01/19 21:08	
Methylene Chloride	ug/L	1.1	1.0	0.77	07/01/19 21:08	B
Naphthalene	ug/L	2.0 U	2.0	0.82	07/01/19 21:08	
Styrene	ug/L	1.0 U	1.0	0.17	07/01/19 21:08	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	07/01/19 21:08	
Toluene	ug/L	1.0 U	1.0	0.30	07/01/19 21:08	

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.: 30300926

METHOD BLANK: 1701199 Matrix: Water
Associated Lab Samples: 30300926008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	07/01/19 21:08	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	07/01/19 21:08	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	07/01/19 21:08	
Trichloroethene	ug/L	1.0 U	1.0	0.39	07/01/19 21:08	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	07/01/19 21:08	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	07/01/19 21:08	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	07/01/19 21:08	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	07/01/19 21:08	
1,2-Dichloroethane-d4 (S)	%.	100	80-120		07/01/19 21:08	
4-Bromofluorobenzene (S)	%.	99	78-122		07/01/19 21:08	
Dibromofluoromethane (S)	%.	99	80-120		07/01/19 21:08	
Toluene-d8 (S)	%.	103	80-120		07/01/19 21:08	

LABORATORY CONTROL SAMPLE: 1701200

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	19.1	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	97	70-130	
1,1,2-Trichloroethane	ug/L	20	20.4	102	70-130	
1,1-Dichloroethane	ug/L	20	18.1	91	68-121	
1,1-Dichloroethene	ug/L	20	17.8	89	63-129	
1,2,3-Trichloropropane	ug/L	20	20.5	103	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.1	96	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.9	104	70-130	
1,2-Dichlorobenzene	ug/L	20	20.2	101	70-130	
1,2-Dichloroethane	ug/L	20	18.6	93	67-117	
1,2-Dichloropropane	ug/L	20	19.8	99	69-121	
1,4-Dichlorobenzene	ug/L	20	20.9	105	70-130	
2-Butanone (MEK)	ug/L	20	17.9	90	59-128	
2-Hexanone	ug/L	20	19.2	96	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.7	94	63-126	
Acetone	ug/L	20	22.3	112	37-150	
Acrylonitrile	ug/L	20	14.2	71	62-128	
Benzene	ug/L	20	19.9	99	70-130	
Bromochloromethane	ug/L	20	19.5	97	59-137	
Bromodichloromethane	ug/L	20	20.9	105	70-130	
Bromoform	ug/L	20	16.5	83	65-130	
Bromomethane	ug/L	20	16.8	84	45-148	
Carbon disulfide	ug/L	20	18.8	94	55-123	
Carbon tetrachloride	ug/L	20	19.7	98	69-126	
Chlorobenzene	ug/L	20	21.1	106	70-130	
Chloroethane	ug/L	20	18.7	94	68-146	
Chloroform	ug/L	20	19.0	95	69-116	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300926

LABORATORY CONTROL SAMPLE: 1701200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	17.6	88	56-129	
cis-1,2-Dichloroethene	ug/L	20	18.9	95	66-118	
cis-1,3-Dichloropropene	ug/L	20	19.7	99	70-130	
Dibromochloromethane	ug/L	20	20.5	102	70-130	
Dibromomethane	ug/L	20	19.8	99	70-130	
Ethylbenzene	ug/L	20	21.0	105	70-130	
Iodomethane	ug/L	20	16.1J	81	10-175	
Methyl-tert-butyl ether	ug/L	20	19.0	95	70-130	
Methylene Chloride	ug/L	20	17.9	89	65-124	
Naphthalene	ug/L	20	21.5	107	69-135	
Styrene	ug/L	20	21.3	107	70-130	
Tetrachloroethene	ug/L	20	21.8	109	70-130	
Toluene	ug/L	20	21.1	105	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	64-123	
trans-1,3-Dichloropropene	ug/L	20	20.4	102	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	18.1	91	37-119	
Trichloroethene	ug/L	20	19.6	98	70-130	
Trichlorofluoromethane	ug/L	20	21.2	106	64-163	
Vinyl acetate	ug/L	20	18.4	92	45-129	
Vinyl chloride	ug/L	20	19.0	95	70-130	
Xylene (Total)	ug/L	60	63.7	106	70-130	
1,2-Dichloroethane-d4 (S)	%.			99	80-120	
4-Bromofluorobenzene (S)	%.			101	78-122	
Dibromofluoromethane (S)	%.			99	80-120	
Toluene-d8 (S)	%.			104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701201 1701202

Parameter	Units	30310157012 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	5.0 U	100	100	96.8	88.9	97	89	52-123	9	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	95.9	86.9	96	87	67-127	10	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	92.8	84.2	93	84	55-118	10	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	101	92.2	101	92	60-117	9	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	87.8	84.4	87	84	68-118	4	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	93.7	85.1	94	85	62-126	10	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	96.3	89.5	96	89	56-129	7	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	84.7	77.7	85	78	46-130	9	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	100	89.6	100	90	69-124	11	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	98.1	90.1	98	90	66-116	9	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	92.0	83.0	92	83	67-117	10	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	96.4	88.5	96	89	61-128	8	30	
1,4-Dichlorobenzene	ug/L	5.0 U	100	100	99.3	92.5	99	93	68-116	7	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	88.1	80.0	84	76	63-175	10	30	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300926

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701201 1701202

Parameter	Units	30310157012 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	50.0 U	100	100	98.6	85.9	99	86	65-151	14	30	
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	99.4	85.9	99	86	66-149	15	30	
Acetone	ug/L	52.4	100	100	130	124	78	72	10-175	5	30	
Acrylonitrile	ug/L	20.0 U	100	100	108	73.8	108	74	42-165	38	30	R1
Benzene	ug/L	232	100	100	340	330	109	98	67-119	3	30	
Bromochloromethane	ug/L	5.0 U	100	100	106	98.5	106	99	64-124	8	30	
Bromodichloromethane	ug/L	5.0 U	100	100	95.3	89.7	95	90	67-126	6	30	
Bromoform	ug/L	5.0 U	100	100	67.0	63.8	67	64	43-114	5	30	
Bromomethane	ug/L	5.0 U	100	100	73.6	94.1	74	94	10-164	24	30	
Carbon disulfide	ug/L	5.0 U	100	100	95.8	81.6	96	82	37-135	16	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	85.3	84.7	85	85	60-137	1	30	
Chlorobenzene	ug/L	5.0 U	100	100	107	96.7	107	97	68-119	10	30	
Chloroethane	ug/L	5.0 U	100	100	97.9	79.3	98	79	54-169	21	30	
Chloroform	ug/L	5.0 U	100	100	100	89.1	100	89	69-113	12	30	
Chloromethane	ug/L	5.0 U	100	100	89.6	91.8	90	92	43-159	2	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	93.5	87.7	94	88	65-121	6	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	89.9	84.2	90	84	61-120	7	30	
Dibromochloromethane	ug/L	5.0 U	100	100	88.9	83.8	89	84	56-121	6	30	
Dibromomethane	ug/L	5.0 U	100	100	94.9	87.4	95	87	56-133	8	30	
Ethylbenzene	ug/L	14.3	100	100	115	106	100	91	69-127	8	30	
Iodomethane	ug/L	250 U	100	100	92.1J	89.0J	92	89	10-152		30	
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	96.9	83.0	97	83	70-130	15	30	
Methylene Chloride	ug/L	5.1	100	100	93.7	84.3	89	79	49-144	11	30	
Naphthalene	ug/L	1440	100	100	1470	1540	23	95	60-136	5	30	ML
Styrene	ug/L	54.9	100	100	157	147	102	92	65-120	6	30	
Tetrachloroethene	ug/L	5.0 U	100	100	108	99.0	108	99	64-123	8	30	
Toluene	ug/L	125	100	100	219	208	94	83	70-130	6	30	
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	90.4	85.4	90	85	66-119	6	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	93.9	83.6	94	84	52-117	12	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	81.8	73.0	82	73	13-100	11	30	
Trichloroethene	ug/L	5.0 U	100	100	103	93.2	103	93	63-125	10	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	96.9	91.5	97	91	43-186	6	30	
Vinyl acetate	ug/L	50.0 U	100	100	79.5	77.2	80	77	35-150	3	30	
Vinyl chloride	ug/L	5.0 U	100	100	89.5	90.2	90	90	60-133	1	30	
Xylene (Total)	ug/L	278	300	300	526	490	82	70	69-128	7	30	
1,2-Dichloroethane-d4 (S)	%.						97	98	80-120			
4-Bromofluorobenzene (S)	%.						99	102	78-122			
Dibromofluoromethane (S)	%.						97	99	80-120			
Toluene-d8 (S)	%.						104	104	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300926

QC Batch: 349937 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30300926001, 30300926002, 30300926003, 30300926004, 30300926005, 30300926006, 30300926007, 30300926009

METHOD BLANK: 1701204 Matrix: Water
Associated Lab Samples: 30300926001, 30300926002, 30300926003, 30300926004, 30300926005, 30300926006, 30300926007, 30300926009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	07/01/19 21:20	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	07/01/19 21:20	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	07/01/19 21:20	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	07/01/19 21:20	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	07/01/19 21:20	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	07/01/19 21:20	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	07/01/19 21:20	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	07/01/19 21:20	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	07/01/19 21:20	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	07/01/19 21:20	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	07/01/19 21:20	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	07/01/19 21:20	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	07/01/19 21:20	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	07/01/19 21:20	
2-Hexanone	ug/L	10.0 U	10.0	0.66	07/01/19 21:20	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	07/01/19 21:20	
Acetone	ug/L	5.6J	10.0	2.8	07/01/19 21:20	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	07/01/19 21:20	
Benzene	ug/L	1.0 U	1.0	0.24	07/01/19 21:20	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	07/01/19 21:20	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	07/01/19 21:20	
Bromoform	ug/L	1.0 U	1.0	0.32	07/01/19 21:20	
Bromomethane	ug/L	1.0 U	1.0	0.49	07/01/19 21:20	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	07/01/19 21:20	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	07/01/19 21:20	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	07/01/19 21:20	
Chloroethane	ug/L	1.0 U	1.0	0.55	07/01/19 21:20	
Chloroform	ug/L	1.0 U	1.0	0.30	07/01/19 21:20	
Chloromethane	ug/L	1.0 U	1.0	0.68	07/01/19 21:20	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	07/01/19 21:20	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	07/01/19 21:20	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	07/01/19 21:20	
Dibromomethane	ug/L	1.0 U	1.0	0.40	07/01/19 21:20	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	07/01/19 21:20	
Iodomethane	ug/L	50.0 U	50.0	0.67	07/01/19 21:20	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	07/01/19 21:20	
Methylene Chloride	ug/L	1.0	1.0	0.77	07/01/19 21:20	B
Naphthalene	ug/L	2.0 U	2.0	0.82	07/01/19 21:20	
Styrene	ug/L	1.0 U	1.0	0.17	07/01/19 21:20	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	07/01/19 21:20	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300926

METHOD BLANK: 1701204 Matrix: Water

Associated Lab Samples: 30300926001, 30300926002, 30300926003, 30300926004, 30300926005, 30300926006, 30300926007, 30300926009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.30	07/01/19 21:20	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	07/01/19 21:20	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	07/01/19 21:20	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	07/01/19 21:20	
Trichloroethene	ug/L	1.0 U	1.0	0.39	07/01/19 21:20	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	07/01/19 21:20	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	07/01/19 21:20	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	07/01/19 21:20	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	07/01/19 21:20	
1,2-Dichloroethane-d4 (S)	%.	103	80-120		07/01/19 21:20	
4-Bromofluorobenzene (S)	%.	99	78-122		07/01/19 21:20	
Dibromofluoromethane (S)	%.	101	80-120		07/01/19 21:20	
Toluene-d8 (S)	%.	96	80-120		07/01/19 21:20	

LABORATORY CONTROL SAMPLE: 1701205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.8	99	70-130	
1,1,1-Trichloroethane	ug/L	20	19.7	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	70-130	
1,1,2-Trichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	20	19.1	95	68-121	
1,1-Dichloroethene	ug/L	20	18.2	91	63-129	
1,2,3-Trichloropropane	ug/L	20	19.8	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.7	93	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.4	102	70-130	
1,2-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	18.1	90	67-117	
1,2-Dichloropropane	ug/L	20	18.9	95	69-121	
1,4-Dichlorobenzene	ug/L	20	20.7	103	70-130	
2-Butanone (MEK)	ug/L	20	17.8	89	59-128	
2-Hexanone	ug/L	20	17.7	88	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.0	90	63-126	
Acetone	ug/L	20	20.1	100	37-150	
Acrylonitrile	ug/L	20	15.6	78	62-128	
Benzene	ug/L	20	19.9	99	70-130	
Bromochloromethane	ug/L	20	22.2	111	59-137	
Bromodichloromethane	ug/L	20	21.0	105	70-130	
Bromoform	ug/L	20	16.9	84	65-130	
Bromomethane	ug/L	20	22.2	111	45-148	
Carbon disulfide	ug/L	20	17.8	89	55-123	
Carbon tetrachloride	ug/L	20	20.3	102	69-126	
Chlorobenzene	ug/L	20	20.6	103	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30300926

LABORATORY CONTROL SAMPLE: 1701205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	22.1	110	68-146	
Chloroform	ug/L	20	19.8	99	69-116	
Chloromethane	ug/L	20	16.9	85	56-129	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	66-118	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	70-130	
Dibromochloromethane	ug/L	20	17.7	89	70-130	
Dibromomethane	ug/L	20	20.0	100	70-130	
Ethylbenzene	ug/L	20	20.4	102	70-130	
Iodomethane	ug/L	20	22.8J	114	10-175	
Methyl-tert-butyl ether	ug/L	20	18.7	93	70-130	
Methylene Chloride	ug/L	20	16.5	83	65-124	
Naphthalene	ug/L	20	20.1	100	69-135	
Styrene	ug/L	20	20.5	102	70-130	
Tetrachloroethene	ug/L	20	20.3	101	70-130	
Toluene	ug/L	20	20.6	103	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.0	95	64-123	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	17.3	86	37-119	
Trichloroethene	ug/L	20	20.0	100	70-130	
Trichlorofluoromethane	ug/L	20	22.1	111	64-163	
Vinyl acetate	ug/L	20	18.0	90	45-129	
Vinyl chloride	ug/L	20	19.9	99	70-130	
Xylene (Total)	ug/L	60	62.1	103	70-130	
1,2-Dichloroethane-d4 (S)	%.			96	80-120	
4-Bromofluorobenzene (S)	%.			102	78-122	
Dibromofluoromethane (S)	%.			98	80-120	
Toluene-d8 (S)	%.			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701206 1701207

Parameter	Units	30310157007 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	5.0 U	100	100	84.8	85.5	85	86	52-123	1	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	86.4	85.1	86	85	67-127	1	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	81.6	83.7	82	84	55-118	3	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	90.8	91.1	91	91	60-117	0	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	90.7	88.4	91	88	68-118	3	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	90.9	88.7	91	89	62-126	2	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	85.5	86.5	85	87	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	76.3	81.6	76	82	46-130	7	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	89.1	88.0	89	88	69-124	1	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	89.0	89.5	89	90	66-116	1	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	87.8	86.1	88	86	67-117	2	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	89.6	91.9	90	92	61-128	3	30	

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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.: 30300926

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701206 1701207

Parameter	Units	30310157007 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	5.0 U	100	100	89.5	90.9	90	91	68-116	1	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	79.9	91.3	78	89	63-175	13	30	
2-Hexanone	ug/L	50.0 U	100	100	79.4	92.0	79	92	65-151	15	30	
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	84.9	96.8	85	97	66-149	13	30	
Acetone	ug/L	33.5J	100	100	106	121	72	87	10-175	14	30	
Acrylonitrile	ug/L	20.0 U	100	100	65.7	79.3	66	79	42-165	19	30	
Benzene	ug/L	228	100	100	340	334	112	106	67-119	2	30	
Bromochloromethane	ug/L	5.0 U	100	100	99.3	96.2	99	96	64-124	3	30	
Bromodichloromethane	ug/L	5.0 U	100	100	91.6	91.9	92	92	67-126	0	30	
Bromoform	ug/L	5.0 U	100	100	61.0	61.1	61	61	43-114	0	30	
Bromomethane	ug/L	3.5J	100	100	41.4	56.9	38	53	10-164	32	30	R1
Carbon disulfide	ug/L	5.0 U	100	100	89.5	101	90	101	37-135	12	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	89.6	84.0	90	84	60-137	7	30	
Chlorobenzene	ug/L	5.0 U	100	100	93.3	93.1	93	93	68-119	0	30	
Chloroethane	ug/L	5.0 U	100	100	97.3	85.5	97	86	54-169	13	30	
Chloroform	ug/L	5.0 U	100	100	92.3	91.6	92	92	69-113	1	30	
Chloromethane	ug/L	5.0 U	100	100	77.7	77.0	78	77	43-159	1	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	87.7	91.7	88	92	65-121	4	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	87.8	84.4	88	84	61-120	4	30	
Dibromochloromethane	ug/L	5.0 U	100	100	72.2	72.4	72	72	56-121	0	30	
Dibromomethane	ug/L	5.0 U	100	100	90.4	90.4	90	90	56-133	0	30	
Ethylbenzene	ug/L	11.5	100	100	105	104	93	93	69-127	1	30	
Iodomethane	ug/L	250 U	100	100	79.6J	133J	77	130	10-152		30	
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	85.6	102	86	102	70-130	17	30	
Methylene Chloride	ug/L	4.6J	100	100	86.6	87.0	82	82	49-144	0	30	
Naphthalene	ug/L	1850	100	100	1870	1980	18	133	60-136	6	30	ML
Styrene	ug/L	23.4	100	100	117	117	93	94	65-120	0	30	
Tetrachloroethene	ug/L	5.0 U	100	100	93.6	92.9	94	93	64-123	1	30	
Toluene	ug/L	81.9	100	100	184	182	103	100	70-130	1	30	
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	90.9	88.8	91	89	66-119	2	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	83.0	82.0	83	82	52-117	1	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	49.0	60.2	49	60	13-100	20	30	
Trichloroethene	ug/L	5.0 U	100	100	93.3	91.6	93	92	63-125	2	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	103	103	103	103	43-186	0	30	
Vinyl acetate	ug/L	50.0 U	100	100	80.3	81.9	80	82	35-150	2	30	
Vinyl chloride	ug/L	5.0 U	100	100	91.4	88.7	91	89	60-133	3	30	
Xylene (Total)	ug/L	187	300	300	472	467	95	93	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%.						99	96	80-120			
4-Bromofluorobenzene (S)	%.						99	99	78-122			
Dibromofluoromethane (S)	%.						100	100	80-120			
Toluene-d8 (S)	%.						98	99	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 Sampling
Pace Project No.: 30300926

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 Sampling
Pace Project No.: 30300926

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30300926001	**Trip Blank**	EPA 8260B	349937		
30300926002	**CO41-PZM001**	EPA 8260B	349937		
30300926003	**CO41-PZM036**	EPA 8260B	349937		
30300926004	**CO59-PZM002**	EPA 8260B	349937		
30300926005	**CO56-PZM001**	EPA 8260B	349937		
30300926006	**CO58-PZM001**	EPA 8260B	349937		
30300926007	**CO57-PZM002**	EPA 8260B	349937		
30300926008	**CO55-PZM000**	EPA 8260B	349935		
30300926009	**CO26-PZM007**	EPA 8260B	349937		

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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:	

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# : 30300926

30300926

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	Res	Pace Project No./ Lab I.D.
1	Trip Blank	WT			6/20/19				2				2						X		001
2	C041-PZM001		G				0921		3				3						X		002
3	C041-PZM036						0948		3				3						X		003
4	C059-PZM002						1030		3				3						X		004
5	C056-PZM001						1124		3				3						X		005
6	C058-PZM001						1252		3				3						X		006
7	C057-PZM002						1400		3				3						X		007
8	C055-PZM000						1420		3				3						X		008
9	C026-PZM007						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)
	[signature] ARM	6/20/19	1530	David L Hillegas / Pace	6/20/19	1710				
	David L Hillegas / Pace	6/20/19	2020	RDS Pace	6/20/19	2030		Y		
	RDS Pace	6/20/19	2350	Marion J Clay	6/20/19	2350	1.2	Y	N	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Leandra M Glumac

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 06/20/19

*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

30300926

Client Name: EnviroAnalytics Group Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other

Label MLC
LIMS Login MLC

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 1.2 °C Correction Factor: 0 °C Final Temp: 1.2 °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: MLC 6/24/20
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 sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.	
All containers meet method preservation requirements.	✓			Initial when completed MLC	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):		✓		17.	
Trip Blank Present:	✓			18.	
Trip Blank Custody Seals Present	✓				
Rad 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

July 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.: 30310156

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on June 21, 2019. 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.

This project follows the April 5, 2016 revision 3 Quality Assurance Project Plan for Sparrows Point Terminal Site, Sparrows Point, MD prepared for EnviroAnalytics Group and is not for PA DEP compliance reporting.

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.: 30310156

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
Florida: Cert E871149 SEKS WET
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.: 30310156

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30310156001	**Trip Blank**	Water	06/21/19 00:01	06/21/19 23:15
30310156002	**C060-PZM001**	Water	06/21/19 09:00	06/21/19 23:15
30310156003	**C023-PZM008**	Water	06/21/19 09:42	06/21/19 23:15
30310156004	**C024-PZM007**	Water	06/21/19 10:20	06/21/19 23:15

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30310156

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30310156001	**Trip Blank**	EPA 8260B	LEL	53
30310156002	**C060-PZM001**	EPA 8260B	LEL	53
30310156003	**C023-PZM008**	EPA 8260B	LEL	53
30310156004	**C024-PZM007**	EPA 8260B	LEL	53

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PROJECT NARRATIVE

Project: COA IM GW Sampling
Pace Project No.: 30310156

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: July 03, 2019

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.

QC Batch: 349937

B: Analyte was detected in the associated method blank.
- BLANK for HBN 349937 [MSV/4519 (Lab ID: 1701204)
  - Acetone
  - Methylene Chloride

QC Batch: 350127

B: Analyte was detected in the associated method blank.
- BLANK for HBN 350127 [MSV/4522 (Lab ID: 1701867)
  - Acetone

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: 349937

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30310157007

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
- MS (Lab ID: 1701206)
  - Naphthalene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: COA IM GW Sampling
Pace Project No.: 30310156

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: July 03, 2019

QC Batch: 349937

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30310157007

R1: RPD value was outside control limits.

- MSD (Lab ID: 1701207)
  - Bromomethane

QC Batch: 350127

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

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.: 30310156

Sample: Trip Blank **Lab ID: 30310156001** Collected: 06/21/19 00:01 Received: 06/21/19 23:15 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		07/02/19 16:31	630-20-6	M5
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/02/19 16:31	71-55-6	M5
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 16:31	79-34-5	M5
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 16:31	79-00-5	M5
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		07/02/19 16:31	75-34-3	M5
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/02/19 16:31	75-35-4	M5
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/02/19 16:31	96-18-4	M5
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		07/02/19 16:31	96-12-8	M5
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 16:31	106-93-4	M5
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/02/19 16:31	95-50-1	M5
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/02/19 16:31	107-06-2	M5
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/02/19 16:31	78-87-5	M5
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 16:31	106-46-7	M5
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		07/02/19 16:31	78-93-3	M5
2-Hexanone	ND	ug/L	5.0	0.66	1		07/02/19 16:31	591-78-6	M5
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		07/02/19 16:31	108-10-1	M5
Acetone	ND	ug/L	5.0	2.8	1		07/02/19 16:31	67-64-1	B,M5
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/02/19 16:31	107-13-1	M5
Benzene	**1.0 U**	ug/L	1.0	0.24	1		07/02/19 16:31	71-43-2	M5
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 16:31	74-97-5	M5
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/02/19 16:31	75-27-4	M5
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 16:31	75-25-2	M5
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		07/02/19 16:31	74-83-9	M5
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 16:31	75-15-0	M5
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 16:31	56-23-5	M5
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/02/19 16:31	108-90-7	M5
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/02/19 16:31	75-00-3	M5
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/02/19 16:31	67-66-3	M5
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		07/02/19 16:31	74-87-3	M5
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/02/19 16:31	124-48-1	M5
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/02/19 16:31	74-95-3	M5
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		07/02/19 16:31	100-41-4	M5
Iodomethane	ND	ug/L	1.0	0.67	1		07/02/19 16:31	74-88-4	M5
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/02/19 16:31	1634-04-4	M5
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/02/19 16:31	75-09-2	M5
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		07/02/19 16:31	91-20-3	M5
Styrene	**1.0 U**	ug/L	1.0	0.17	1		07/02/19 16:31	100-42-5	M5
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 16:31	127-18-4	M5
Toluene	**1.0 U**	ug/L	1.0	0.30	1		07/02/19 16:31	108-88-3	M5
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/02/19 16:31	79-01-6	M5
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/02/19 16:31	75-69-4	M5
Vinyl acetate	ND	ug/L	2.0	0.51	1		07/02/19 16:31	108-05-4	M5
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/02/19 16:31	75-01-4	M5
Xylene (Total)	ND	ug/L	1.0	0.78	1		07/02/19 16:31	1330-20-7	M5
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/02/19 16:31	156-59-2	M5

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310156

Sample: Trip Blank **Lab ID: 30310156001** Collected: 06/21/19 00:01 Received: 06/21/19 23:15 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		07/02/19 16:31	10061-01-5	M5
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		07/02/19 16:31	156-60-5	M5
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/02/19 16:31	10061-02-6	M5
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		07/02/19 16:31	110-57-6	M5
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		07/02/19 16:31	460-00-4	M5
1,2-Dichloroethane-d4 (S)	106	%.	80-120		1		07/02/19 16:31	17060-07-0	M5
Toluene-d8 (S)	95	%.	80-120		1		07/02/19 16:31	2037-26-5	M5
Dibromofluoromethane (S)	98	%.	80-120		1		07/02/19 16:31	1868-53-7	M5

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310156

Sample: C060-PZM001 **Lab ID: 30310156002** Collected: 06/21/19 09:00 Received: 06/21/19 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		07/02/19 00:40	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/02/19 00:40	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 00:40	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 00:40	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		07/02/19 00:40	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/02/19 00:40	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/02/19 00:40	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		07/02/19 00:40	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 00:40	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/02/19 00:40	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/02/19 00:40	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/02/19 00:40	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 00:40	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		07/02/19 00:40	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		07/02/19 00:40	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		07/02/19 00:40	108-10-1	
Acetone	**10.7**	ug/L	10.0	2.8	1		07/02/19 00:40	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/02/19 00:40	107-13-1	
Benzene	**147**	ug/L	1.0	0.24	1		07/02/19 00:40	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 00:40	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/02/19 00:40	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 00:40	75-25-2	
Bromomethane	**4.1**	ug/L	1.0	0.49	1		07/02/19 00:40	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 00:40	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 00:40	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/02/19 00:40	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/02/19 00:40	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/02/19 00:40	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		07/02/19 00:40	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/02/19 00:40	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/02/19 00:40	74-95-3	
Ethylbenzene	**5.0**	ug/L	1.0	0.31	1		07/02/19 00:40	100-41-4	
Iodomethane	**2.1J**	ug/L	50.0	0.67	1		07/02/19 00:40	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/02/19 00:40	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/02/19 00:40	75-09-2	
Naphthalene	**1310**	ug/L	40.0	16.4	20		07/02/19 01:05	91-20-3	
Styrene	**4.7**	ug/L	1.0	0.17	1		07/02/19 00:40	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 00:40	127-18-4	
Toluene	**16.2**	ug/L	1.0	0.30	1		07/02/19 00:40	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/02/19 00:40	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/02/19 00:40	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		07/02/19 00:40	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/02/19 00:40	75-01-4	
Xylene (Total)	**111**	ug/L	3.0	0.78	1		07/02/19 00:40	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/02/19 00:40	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		07/02/19 00:40	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310156

Sample: C060-PZM001 **Lab ID: 30310156002** Collected: 06/21/19 09:00 Received: 06/21/19 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		07/02/19 00:40	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/02/19 00:40	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		07/02/19 00:40	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		07/02/19 00:40	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		1		07/02/19 00:40	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		07/02/19 00:40	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		1		07/02/19 00:40	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310156

Sample: C023-PZM008 **Lab ID: 30310156003** Collected: 06/21/19 09:42 Received: 06/21/19 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		07/02/19 03:10	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 03:10	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 03:10	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 03:10	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		07/02/19 03:10	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 03:10	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		07/02/19 03:10	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		07/02/19 03:10	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 03:10	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		07/02/19 03:10	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 03:10	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 03:10	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 03:10	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		07/02/19 03:10	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		07/02/19 03:10	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		07/02/19 03:10	108-10-1	
Acetone	**28.9J**	ug/L	50.0	14.2	5		07/02/19 03:10	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		07/02/19 03:10	107-13-1	
Benzene	**404**	ug/L	5.0	1.2	5		07/02/19 03:10	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 03:10	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 03:10	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 03:10	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		07/02/19 03:10	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 03:10	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 03:10	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		07/02/19 03:10	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		07/02/19 03:10	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		07/02/19 03:10	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		07/02/19 03:10	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 03:10	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 03:10	74-95-3	
Ethylbenzene	**19.6**	ug/L	5.0	1.6	5		07/02/19 03:10	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		07/02/19 03:10	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 03:10	1634-04-4	
Methylene Chloride	**4.2J**	ug/L	5.0	3.8	5		07/02/19 03:10	75-09-2	B
Naphthalene	**1720**	ug/L	10.0	4.1	5		07/02/19 03:10	91-20-3	
Styrene	**15.8**	ug/L	5.0	0.85	5		07/02/19 03:10	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 03:10	127-18-4	
Toluene	**181**	ug/L	5.0	1.5	5		07/02/19 03:10	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 03:10	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 03:10	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		07/02/19 03:10	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 03:10	75-01-4	
Xylene (Total)	**314**	ug/L	15.0	3.9	5		07/02/19 03:10	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		07/02/19 03:10	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 03:10	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310156

Sample: C023-PZM008 **Lab ID: 30310156003** Collected: 06/21/19 09:42 Received: 06/21/19 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		07/02/19 03:10	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		07/02/19 03:10	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		07/02/19 03:10	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		07/02/19 03:10	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		5		07/02/19 03:10	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		07/02/19 03:10	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		5		07/02/19 03:10	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310156

Sample: C024-PZM007 **Lab ID: 30310156004** Collected: 06/21/19 10:20 Received: 06/21/19 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		07/02/19 01:30	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/02/19 01:30	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 01:30	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 01:30	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		07/02/19 01:30	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/02/19 01:30	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/02/19 01:30	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		07/02/19 01:30	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 01:30	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/02/19 01:30	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/02/19 01:30	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/02/19 01:30	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 01:30	106-46-7	
2-Butanone (MEK)	**3.4J**	ug/L	10.0	2.1	1		07/02/19 01:30	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		07/02/19 01:30	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		07/02/19 01:30	108-10-1	
Acetone	**16.7**	ug/L	10.0	2.8	1		07/02/19 01:30	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/02/19 01:30	107-13-1	
Benzene	**1.3**	ug/L	1.0	0.24	1		07/02/19 01:30	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 01:30	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/02/19 01:30	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 01:30	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		07/02/19 01:30	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 01:30	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 01:30	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/02/19 01:30	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/02/19 01:30	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/02/19 01:30	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		07/02/19 01:30	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/02/19 01:30	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/02/19 01:30	74-95-3	
Ethylbenzene	**5.7**	ug/L	1.0	0.31	1		07/02/19 01:30	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		07/02/19 01:30	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/02/19 01:30	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/02/19 01:30	75-09-2	
Naphthalene	**3230**	ug/L	40.0	16.4	20		07/02/19 01:55	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		07/02/19 01:30	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 01:30	127-18-4	
Toluene	**1.2**	ug/L	1.0	0.30	1		07/02/19 01:30	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/02/19 01:30	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/02/19 01:30	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		07/02/19 01:30	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/02/19 01:30	75-01-4	
Xylene (Total)	**7.4**	ug/L	3.0	0.78	1		07/02/19 01:30	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/02/19 01:30	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		07/02/19 01:30	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310156

Sample: C024-PZM007 **Lab ID: 30310156004** Collected: 06/21/19 10:20 Received: 06/21/19 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		07/02/19 01:30	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/02/19 01:30	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		07/02/19 01:30	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		07/02/19 01:30	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		1		07/02/19 01:30	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		07/02/19 01:30	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120		1		07/02/19 01:30	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30310156

QC Batch: 349937 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30310156002, 30310156003, 30310156004

METHOD BLANK: 1701204 Matrix: Water
Associated Lab Samples: 30310156002, 30310156003, 30310156004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	07/01/19 21:20	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	07/01/19 21:20	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	07/01/19 21:20	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	07/01/19 21:20	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	07/01/19 21:20	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	07/01/19 21:20	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	07/01/19 21:20	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	07/01/19 21:20	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	07/01/19 21:20	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	07/01/19 21:20	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	07/01/19 21:20	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	07/01/19 21:20	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	07/01/19 21:20	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	07/01/19 21:20	
2-Hexanone	ug/L	10.0 U	10.0	0.66	07/01/19 21:20	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	07/01/19 21:20	
Acetone	ug/L	5.6J	10.0	2.8	07/01/19 21:20	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	07/01/19 21:20	
Benzene	ug/L	1.0 U	1.0	0.24	07/01/19 21:20	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	07/01/19 21:20	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	07/01/19 21:20	
Bromoform	ug/L	1.0 U	1.0	0.32	07/01/19 21:20	
Bromomethane	ug/L	1.0 U	1.0	0.49	07/01/19 21:20	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	07/01/19 21:20	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	07/01/19 21:20	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	07/01/19 21:20	
Chloroethane	ug/L	1.0 U	1.0	0.55	07/01/19 21:20	
Chloroform	ug/L	1.0 U	1.0	0.30	07/01/19 21:20	
Chloromethane	ug/L	1.0 U	1.0	0.68	07/01/19 21:20	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	07/01/19 21:20	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	07/01/19 21:20	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	07/01/19 21:20	
Dibromomethane	ug/L	1.0 U	1.0	0.40	07/01/19 21:20	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	07/01/19 21:20	
Iodomethane	ug/L	50.0 U	50.0	0.67	07/01/19 21:20	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	07/01/19 21:20	
Methylene Chloride	ug/L	1.0	1.0	0.77	07/01/19 21:20	B
Naphthalene	ug/L	2.0 U	2.0	0.82	07/01/19 21:20	
Styrene	ug/L	1.0 U	1.0	0.17	07/01/19 21:20	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	07/01/19 21:20	
Toluene	ug/L	1.0 U	1.0	0.30	07/01/19 21:20	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30310156

METHOD BLANK: 1701204 Matrix: Water
Associated Lab Samples: 30310156002, 30310156003, 30310156004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	07/01/19 21:20	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	07/01/19 21:20	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	07/01/19 21:20	
Trichloroethene	ug/L	1.0 U	1.0	0.39	07/01/19 21:20	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	07/01/19 21:20	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	07/01/19 21:20	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	07/01/19 21:20	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	07/01/19 21:20	
1,2-Dichloroethane-d4 (S)	%.	103	80-120		07/01/19 21:20	
4-Bromofluorobenzene (S)	%.	99	78-122		07/01/19 21:20	
Dibromofluoromethane (S)	%.	101	80-120		07/01/19 21:20	
Toluene-d8 (S)	%.	96	80-120		07/01/19 21:20	

LABORATORY CONTROL SAMPLE: 1701205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.8	99	70-130	
1,1,1-Trichloroethane	ug/L	20	19.7	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	70-130	
1,1,2-Trichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	20	19.1	95	68-121	
1,1-Dichloroethene	ug/L	20	18.2	91	63-129	
1,2,3-Trichloropropane	ug/L	20	19.8	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.7	93	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.4	102	70-130	
1,2-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	18.1	90	67-117	
1,2-Dichloropropane	ug/L	20	18.9	95	69-121	
1,4-Dichlorobenzene	ug/L	20	20.7	103	70-130	
2-Butanone (MEK)	ug/L	20	17.8	89	59-128	
2-Hexanone	ug/L	20	17.7	88	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.0	90	63-126	
Acetone	ug/L	20	20.1	100	37-150	
Acrylonitrile	ug/L	20	15.6	78	62-128	
Benzene	ug/L	20	19.9	99	70-130	
Bromochloromethane	ug/L	20	22.2	111	59-137	
Bromodichloromethane	ug/L	20	21.0	105	70-130	
Bromoform	ug/L	20	16.9	84	65-130	
Bromomethane	ug/L	20	22.2	111	45-148	
Carbon disulfide	ug/L	20	17.8	89	55-123	
Carbon tetrachloride	ug/L	20	20.3	102	69-126	
Chlorobenzene	ug/L	20	20.6	103	70-130	
Chloroethane	ug/L	20	22.1	110	68-146	
Chloroform	ug/L	20	19.8	99	69-116	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30310156

LABORATORY CONTROL SAMPLE: 1701205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.9	85	56-129	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	66-118	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	70-130	
Dibromochloromethane	ug/L	20	17.7	89	70-130	
Dibromomethane	ug/L	20	20.0	100	70-130	
Ethylbenzene	ug/L	20	20.4	102	70-130	
Iodomethane	ug/L	20	22.8J	114	10-175	
Methyl-tert-butyl ether	ug/L	20	18.7	93	70-130	
Methylene Chloride	ug/L	20	16.5	83	65-124	
Naphthalene	ug/L	20	20.1	100	69-135	
Styrene	ug/L	20	20.5	102	70-130	
Tetrachloroethene	ug/L	20	20.3	101	70-130	
Toluene	ug/L	20	20.6	103	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.0	95	64-123	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	17.3	86	37-119	
Trichloroethene	ug/L	20	20.0	100	70-130	
Trichlorofluoromethane	ug/L	20	22.1	111	64-163	
Vinyl acetate	ug/L	20	18.0	90	45-129	
Vinyl chloride	ug/L	20	19.9	99	70-130	
Xylene (Total)	ug/L	60	62.1	103	70-130	
1,2-Dichloroethane-d4 (S)	%.			96	80-120	
4-Bromofluorobenzene (S)	%.			102	78-122	
Dibromofluoromethane (S)	%.			98	80-120	
Toluene-d8 (S)	%.			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701206 1701207

Parameter	Units	30310157007 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	5.0 U	100	100	84.8	85.5	85	86	52-123	1	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	86.4	85.1	86	85	67-127	1	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	81.6	83.7	82	84	55-118	3	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	90.8	91.1	91	91	60-117	0	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	90.7	88.4	91	88	68-118	3	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	90.9	88.7	91	89	62-126	2	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	85.5	86.5	85	87	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	76.3	81.6	76	82	46-130	7	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	89.1	88.0	89	88	69-124	1	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	89.0	89.5	89	90	66-116	1	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	87.8	86.1	88	86	67-117	2	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	89.6	91.9	90	92	61-128	3	30	
1,4-Dichlorobenzene	ug/L	5.0 U	100	100	89.5	90.9	90	91	68-116	1	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	79.9	91.3	78	89	63-175	13	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30310156

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701206 1701207

Parameter	Units	30310157007 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	50.0 U	100	100	79.4	92.0	79	92	65-151	15	30	
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	84.9	96.8	85	97	66-149	13	30	
Acetone	ug/L	33.5J	100	100	106	121	72	87	10-175	14	30	
Acrylonitrile	ug/L	20.0 U	100	100	65.7	79.3	66	79	42-165	19	30	
Benzene	ug/L	228	100	100	340	334	112	106	67-119	2	30	
Bromochloromethane	ug/L	5.0 U	100	100	99.3	96.2	99	96	64-124	3	30	
Bromodichloromethane	ug/L	5.0 U	100	100	91.6	91.9	92	92	67-126	0	30	
Bromoform	ug/L	5.0 U	100	100	61.0	61.1	61	61	43-114	0	30	
Bromomethane	ug/L	3.5J	100	100	41.4	56.9	38	53	10-164	32	30	R1
Carbon disulfide	ug/L	5.0 U	100	100	89.5	101	90	101	37-135	12	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	89.6	84.0	90	84	60-137	7	30	
Chlorobenzene	ug/L	5.0 U	100	100	93.3	93.1	93	93	68-119	0	30	
Chloroethane	ug/L	5.0 U	100	100	97.3	85.5	97	86	54-169	13	30	
Chloroform	ug/L	5.0 U	100	100	92.3	91.6	92	92	69-113	1	30	
Chloromethane	ug/L	5.0 U	100	100	77.7	77.0	78	77	43-159	1	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	87.7	91.7	88	92	65-121	4	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	87.8	84.4	88	84	61-120	4	30	
Dibromochloromethane	ug/L	5.0 U	100	100	72.2	72.4	72	72	56-121	0	30	
Dibromomethane	ug/L	5.0 U	100	100	90.4	90.4	90	90	56-133	0	30	
Ethylbenzene	ug/L	11.5	100	100	105	104	93	93	69-127	1	30	
Iodomethane	ug/L	250 U	100	100	79.6J	133J	77	130	10-152		30	
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	85.6	102	86	102	70-130	17	30	
Methylene Chloride	ug/L	4.6J	100	100	86.6	87.0	82	82	49-144	0	30	
Naphthalene	ug/L	1850	100	100	1870	1980	18	133	60-136	6	30	ML
Styrene	ug/L	23.4	100	100	117	117	93	94	65-120	0	30	
Tetrachloroethene	ug/L	5.0 U	100	100	93.6	92.9	94	93	64-123	1	30	
Toluene	ug/L	81.9	100	100	184	182	103	100	70-130	1	30	
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	90.9	88.8	91	89	66-119	2	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	83.0	82.0	83	82	52-117	1	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	49.0	60.2	49	60	13-100	20	30	
Trichloroethene	ug/L	5.0 U	100	100	93.3	91.6	93	92	63-125	2	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	103	103	103	103	43-186	0	30	
Vinyl acetate	ug/L	50.0 U	100	100	80.3	81.9	80	82	35-150	2	30	
Vinyl chloride	ug/L	5.0 U	100	100	91.4	88.7	91	89	60-133	3	30	
Xylene (Total)	ug/L	187	300	300	472	467	95	93	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%.						99	96	80-120			
4-Bromofluorobenzene (S)	%.						99	99	78-122			
Dibromofluoromethane (S)	%.						100	100	80-120			
Toluene-d8 (S)	%.						98	99	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.: 30310156

QC Batch: 350127 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30310156001

METHOD BLANK: 1701867 Matrix: Water
Associated Lab Samples: 30310156001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	07/02/19 16:05	M5
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	07/02/19 16:05	M5
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	07/02/19 16:05	M5
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	07/02/19 16:05	M5
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	07/02/19 16:05	M5
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	07/02/19 16:05	M5
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	07/02/19 16:05	M5
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	07/02/19 16:05	M5
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	07/02/19 16:05	M5
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	07/02/19 16:05	M5
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	07/02/19 16:05	M5
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	07/02/19 16:05	M5
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	07/02/19 16:05	M5
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	07/02/19 16:05	M5
2-Hexanone	ug/L	10.0 U	10.0	0.66	07/02/19 16:05	M5
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	07/02/19 16:05	M5
Acetone	ug/L	7.2J	10.0	2.8	07/02/19 16:05	M5
Acrylonitrile	ug/L	4.0 U	4.0	0.63	07/02/19 16:05	M5
Benzene	ug/L	1.0 U	1.0	0.24	07/02/19 16:05	M5
Bromochloromethane	ug/L	1.0 U	1.0	0.34	07/02/19 16:05	M5
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	07/02/19 16:05	M5
Bromoform	ug/L	1.0 U	1.0	0.32	07/02/19 16:05	M5
Bromomethane	ug/L	1.0 U	1.0	0.49	07/02/19 16:05	M5
Carbon disulfide	ug/L	1.0 U	1.0	0.32	07/02/19 16:05	M5
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	07/02/19 16:05	M5
Chlorobenzene	ug/L	1.0 U	1.0	0.15	07/02/19 16:05	M5
Chloroethane	ug/L	1.0 U	1.0	0.55	07/02/19 16:05	M5
Chloroform	ug/L	1.0 U	1.0	0.30	07/02/19 16:05	M5
Chloromethane	ug/L	1.0 U	1.0	0.68	07/02/19 16:05	M5
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	07/02/19 16:05	M5
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	07/02/19 16:05	M5
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	07/02/19 16:05	M5
Dibromomethane	ug/L	1.0 U	1.0	0.40	07/02/19 16:05	M5
Ethylbenzene	ug/L	1.0 U	1.0	0.31	07/02/19 16:05	M5
Iodomethane	ug/L	50.0 U	50.0	0.67	07/02/19 16:05	M5
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	07/02/19 16:05	M5
Methylene Chloride	ug/L	1.2	1.0	0.77	07/02/19 16:05	M5
Naphthalene	ug/L	2.0 U	2.0	0.82	07/02/19 16:05	M5
Styrene	ug/L	1.0 U	1.0	0.17	07/02/19 16:05	M5
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	07/02/19 16:05	M5
Toluene	ug/L	1.0 U	1.0	0.30	07/02/19 16:05	M5

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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.: 30310156

METHOD BLANK: 1701867 Matrix: Water
Associated Lab Samples: 30310156001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	07/02/19 16:05	M5
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	07/02/19 16:05	M5
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	07/02/19 16:05	M5
Trichloroethene	ug/L	1.0 U	1.0	0.39	07/02/19 16:05	M5
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	07/02/19 16:05	M5
Vinyl acetate	ug/L	10.0 U	10.0	0.51	07/02/19 16:05	M5
Vinyl chloride	ug/L	1.0 U	1.0	0.31	07/02/19 16:05	M5
Xylene (Total)	ug/L	3.0 U	3.0	0.78	07/02/19 16:05	M5
1,2-Dichloroethane-d4 (S)	%.	102	80-120		07/02/19 16:05	M5
4-Bromofluorobenzene (S)	%.	98	78-122		07/02/19 16:05	M5
Dibromofluoromethane (S)	%.	102	80-120		07/02/19 16:05	M5
Toluene-d8 (S)	%.	97	80-120		07/02/19 16:05	M5

LABORATORY CONTROL SAMPLE: 1701868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.0	100	70-130	M5
1,1,1-Trichloroethane	ug/L	20	20.8	104	70-130	M5
1,1,2,2-Tetrachloroethane	ug/L	20	21.1	105	70-130	M5
1,1,2-Trichloroethane	ug/L	20	21.4	107	70-130	M5
1,1-Dichloroethane	ug/L	20	20.1	101	68-121	M5
1,1-Dichloroethene	ug/L	20	20.0	100	63-129	M5
1,2,3-Trichloropropane	ug/L	20	22.2	111	70-130	M5
1,2-Dibromo-3-chloropropane	ug/L	20	21.8	109	67-132	M5
1,2-Dibromoethane (EDB)	ug/L	20	21.7	109	70-130	M5
1,2-Dichlorobenzene	ug/L	20	21.4	107	70-130	M5
1,2-Dichloroethane	ug/L	20	20.4	102	67-117	M5
1,2-Dichloropropane	ug/L	20	20.7	103	69-121	M5
1,4-Dichlorobenzene	ug/L	20	21.6	108	70-130	M5
2-Butanone (MEK)	ug/L	20	22.6	113	59-128	M5
2-Hexanone	ug/L	20	21.5	108	49-145	M5
4-Methyl-2-pentanone (MIBK)	ug/L	20	22.5	113	63-126	M5
Acetone	ug/L	20	27.3	136	37-150	M5
Acrylonitrile	ug/L	20	18.8	94	62-128	M5
Benzene	ug/L	20	21.9	110	70-130	M5
Bromochloromethane	ug/L	20	23.1	116	59-137	M5
Bromodichloromethane	ug/L	20	21.5	107	70-130	M5
Bromoform	ug/L	20	16.5	82	65-130	M5
Bromomethane	ug/L	20	17.5	87	45-148	M5
Carbon disulfide	ug/L	20	19.6	98	55-123	M5
Carbon tetrachloride	ug/L	20	20.2	101	69-126	M5
Chlorobenzene	ug/L	20	21.4	107	70-130	M5
Chloroethane	ug/L	20	19.4	97	68-146	M5
Chloroform	ug/L	20	20.1	101	69-116	M5

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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.: 30310156

LABORATORY CONTROL SAMPLE: 1701868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	17.1	85	56-129	M5
cis-1,2-Dichloroethene	ug/L	20	19.9	99	66-118	M5
cis-1,3-Dichloropropene	ug/L	20	20.6	103	70-130	M5
Dibromochloromethane	ug/L	20	17.7	88	70-130	M5
Dibromomethane	ug/L	20	21.8	109	70-130	M5
Ethylbenzene	ug/L	20	21.0	105	70-130	M5
Iodomethane	ug/L	20	23.1J	116	10-175	M5
Methyl-tert-butyl ether	ug/L	20	21.7	109	70-130	M5
Methylene Chloride	ug/L	20	17.2	86	65-124	M5
Naphthalene	ug/L	20	23.0	115	69-135	M5
Styrene	ug/L	20	21.2	106	70-130	M5
Tetrachloroethene	ug/L	20	21.7	108	70-130	M5
Toluene	ug/L	20	21.2	106	70-130	M5
trans-1,2-Dichloroethene	ug/L	20	19.9	99	64-123	M5
trans-1,3-Dichloropropene	ug/L	20	20.2	101	68-119	M5
trans-1,4-Dichloro-2-butene	ug/L	20	18.5	92	37-119	M5
Trichloroethene	ug/L	20	21.8	109	70-130	M5
Trichlorofluoromethane	ug/L	20	22.5	112	64-163	M5
Vinyl acetate	ug/L	20	19.6	98	45-129	M5
Vinyl chloride	ug/L	20	19.8	99	70-130	M5
Xylene (Total)	ug/L	60	63.9	107	70-130	M5
1,2-Dichloroethane-d4 (S)	%.			103	80-120	M5
4-Bromofluorobenzene (S)	%.			100	78-122	M5
Dibromofluoromethane (S)	%.			102	80-120	M5
Toluene-d8 (S)	%.			98	80-120	M5

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30310156

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.

BATCH QUALIFIERS

Batch: 350127

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M5	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
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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Pace Analytical Services, LLC
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.: 30310156

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30310156001	**Trip Blank**	EPA 8260B	350127		
30310156002	**C060-PZM001**	EPA 8260B	349937		
30310156003	**C023-PZM008**	EPA 8260B	349937		
30310156004	**C024-PZM007**	EPA 8260B	349937		

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WO# : 30310156

30310156

OF-CUSTODY / Analytical Request Document

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

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

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	Analysis Test: VOC + NAPH by 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	WT				6/21	1119		2				2					Y	X		001
2	C060-PZM001	WT	G				0900		3				3					Y	X		002
3	C023-PZM008	WT	G				0942		3				3					Y	X		003
4	C024-PZM007	WT	G				1020		3				3					Y	X		004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	6/21/19	1500	David L Williams/Pace	6/21/19	1501				
	David L Williams/Pace	6/21/19	1925	RDS FACE	6/21/19	1930		Y		
	RDS FACE	6/21/19	2315	[signature] PACE	06/21/19	2315	0.6	Y		N/A

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Leandra M Glumac

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/21/19

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: EnviroAnalytics Project # 30301156 JB 04/22/19

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label JB JB

LIMS Login

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 0.8 °C Correction Factor: 0 °C Final Temp: 0.8 °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: 04/22/19 JL3
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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.
All containers meet method preservation requirements.	✓			Initial when completed: JB Date/time of preservation:
				Lot # of added preservative:
Headspace in VOA Vials (>6mm):	✓			17. 1 Trip Blank
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad 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

July 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.: 30310157

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on June 21, 2019. 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.

This project follows the April 5, 2016 revision 3 Quality Assurance Project Plan for Sparrows Point Terminal Site, Sparrows Point, MD prepared for EnviroAnalytics Group and is not for PA DEP compliance reporting.

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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(724)850-5600

CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30310157

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
Florida: Cert E871149 SEKS WET
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.: 30310157

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30310157001	**Trip Blank**	Water	06/21/19 00:01	06/21/19 23:15
30310157002	**C061-PZM007**	Water	06/21/19 09:35	06/21/19 23:15
30310157003	**C062-PZM007**	Water	06/21/19 10:20	06/21/19 23:15
30310157004	**C063-PZM007**	Water	06/21/19 10:59	06/21/19 23:15
30310157005	**C064-PZM006**	Water	06/21/19 11:29	06/21/19 23:15
30310157006	**C065-PZM005**	Water	06/21/19 11:57	06/21/19 23:15
30310157007	**C066-PZM005**	Water	06/21/19 12:25	06/21/19 23:15
30310157008	**C067-PZM006**	Water	06/21/19 12:59	06/21/19 23:15
30310157009	**C068-PZM005**	Water	06/21/19 13:29	06/21/19 23:15
30310157010	**C069-PZM005**	Water	06/21/19 13:55	06/21/19 23:15
30310157011	**C070-PZM005**	Water	06/21/19 14:25	06/21/19 23:15
30310157012	**C071-PZM006**	Water	06/21/19 14:00	06/21/19 23:15
30310157013	**C072-PZM005**	Water	06/21/19 13:35	06/21/19 23:15

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30310157

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30310157001	**Trip Blank**	EPA 8260B	LEL	53
30310157002	**C061-PZM007**	EPA 8260B	LEL	53
30310157003	**C062-PZM007**	EPA 8260B	LEL	53
30310157004	**C063-PZM007**	EPA 8260B	LEL	53
30310157005	**C064-PZM006**	EPA 8260B	LEL	53
30310157006	**C065-PZM005**	EPA 8260B	LEL	53
30310157007	**C066-PZM005**	EPA 8260B	LEL	53
30310157008	**C067-PZM006**	EPA 8260B	LEL	53
30310157009	**C068-PZM005**	EPA 8260B	LEL	53
30310157010	**C069-PZM005**	EPA 8260B	LEL	53
30310157011	**C070-PZM005**	EPA 8260B	LEL	53
30310157012	**C071-PZM006**	EPA 8260B	LEL	53
30310157013	**C072-PZM005**	EPA 8260B	LEL	53

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PROJECT NARRATIVE

Project: COA IM GW Sampling
Pace Project No.: 30310157

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: July 03, 2019

General Information:
13 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.

QC Batch: 349935

B: Analyte was detected in the associated method blank.

- BLANK for HBN 349935 [MSV/4519 (Lab ID: 1701199)
  - Acetone
  - Bromomethane
  - Methylene Chloride

QC Batch: 349937

B: Analyte was detected in the associated method blank.

- BLANK for HBN 349937 [MSV/4519 (Lab ID: 1701204)
  - Acetone
  - Methylene Chloride

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: 349935

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30310157012

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1701201)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: COA IM GW Sampling
Pace Project No.: 30310157

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: July 03, 2019

QC Batch: 349935

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30310157012

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- Naphthalene

R1: RPD value was outside control limits.

- MSD (Lab ID: 1701202)
  - Acrylonitrile

QC Batch: 349937

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30310157007

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1701206)
  - Naphthalene

R1: RPD value was outside control limits.

- MSD (Lab ID: 1701207)
  - Bromomethane

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.: 30310157

Sample: Trip Blank **Lab ID: 30310157001** Collected: 06/21/19 00:01 Received: 06/21/19 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		07/01/19 21:33	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 21:33	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 21:33	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 21:33	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		07/01/19 21:33	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 21:33	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/01/19 21:33	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		07/01/19 21:33	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 21:33	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/01/19 21:33	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 21:33	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/01/19 21:33	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 21:33	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		07/01/19 21:33	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		07/01/19 21:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		07/01/19 21:33	108-10-1	
Acetone	**14.1**	ug/L	5.0	2.8	1		07/01/19 21:33	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/01/19 21:33	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		07/01/19 21:33	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 21:33	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/01/19 21:33	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 21:33	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		07/01/19 21:33	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 21:33	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 21:33	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/01/19 21:33	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/01/19 21:33	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/01/19 21:33	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		07/01/19 21:33	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/01/19 21:33	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/01/19 21:33	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 21:33	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		07/01/19 21:33	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/01/19 21:33	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/01/19 21:33	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		07/01/19 21:33	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		07/01/19 21:33	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 21:33	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		07/01/19 21:33	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/01/19 21:33	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 21:33	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		07/01/19 21:33	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 21:33	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		07/01/19 21:33	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/01/19 21:33	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 21:33	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: Trip Blank **Lab ID: 30310157001** Collected: 06/21/19 00:01 Received: 06/21/19 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		07/01/19 21:33	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/01/19 21:33	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		07/01/19 21:33	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		07/01/19 21:33	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		1		07/01/19 21:33	17060-07-0	
Toluene-d8 (S)	104	%.	80-120		1		07/01/19 21:33	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		1		07/01/19 21:33	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C061-PZM007 **Lab ID: 30310157002** Collected: 06/21/19 09:35 Received: 06/21/19 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		07/02/19 00:52	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/02/19 00:52	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 00:52	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 00:52	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		07/02/19 00:52	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/02/19 00:52	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/02/19 00:52	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		07/02/19 00:52	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 00:52	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/02/19 00:52	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/02/19 00:52	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/02/19 00:52	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 00:52	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		07/02/19 00:52	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		07/02/19 00:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		07/02/19 00:52	108-10-1	
Acetone	**4.6J**	ug/L	10.0	2.8	1		07/02/19 00:52	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/02/19 00:52	107-13-1	
Benzene	**49.7**	ug/L	1.0	0.24	1		07/02/19 00:52	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 00:52	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/02/19 00:52	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 00:52	75-25-2	
Bromomethane	**2.5**	ug/L	1.0	0.49	1		07/02/19 00:52	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 00:52	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 00:52	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/02/19 00:52	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/02/19 00:52	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/02/19 00:52	67-66-3	
Chloromethane	**1.1**	ug/L	1.0	0.68	1		07/02/19 00:52	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/02/19 00:52	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/02/19 00:52	74-95-3	
Ethylbenzene	**2.7**	ug/L	1.0	0.31	1		07/02/19 00:52	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		07/02/19 00:52	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/02/19 00:52	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/02/19 00:52	75-09-2	
Naphthalene	**247**	ug/L	2.0	0.82	1		07/02/19 00:52	91-20-3	
Styrene	**0.21J**	ug/L	1.0	0.17	1		07/02/19 00:52	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 00:52	127-18-4	
Toluene	**21.8**	ug/L	1.0	0.30	1		07/02/19 00:52	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/02/19 00:52	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/02/19 00:52	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		07/02/19 00:52	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/02/19 00:52	75-01-4	
Xylene (Total)	**38.6**	ug/L	3.0	0.78	1		07/02/19 00:52	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/02/19 00:52	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		07/02/19 00:52	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C061-PZM007 **Lab ID: 30310157002** Collected: 06/21/19 09:35 Received: 06/21/19 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		07/02/19 00:52	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/02/19 00:52	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		07/02/19 00:52	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		07/02/19 00:52	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		1		07/02/19 00:52	17060-07-0	
Toluene-d8 (S)	103	%.	80-120		1		07/02/19 00:52	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		07/02/19 00:52	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C062-PZM007 **Lab ID: 30310157003** Collected: 06/21/19 10:20 Received: 06/21/19 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		07/01/19 21:58	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 21:58	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 21:58	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 21:58	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		07/01/19 21:58	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 21:58	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/01/19 21:58	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		07/01/19 21:58	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 21:58	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/01/19 21:58	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 21:58	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/01/19 21:58	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 21:58	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		07/01/19 21:58	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		07/01/19 21:58	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		07/01/19 21:58	108-10-1	
Acetone	**4.1J**	ug/L	10.0	2.8	1		07/01/19 21:58	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/01/19 21:58	107-13-1	
Benzene	**3.4**	ug/L	1.0	0.24	1		07/01/19 21:58	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 21:58	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/01/19 21:58	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 21:58	75-25-2	
Bromomethane	**4.1**	ug/L	1.0	0.49	1		07/01/19 21:58	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 21:58	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 21:58	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/01/19 21:58	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/01/19 21:58	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/01/19 21:58	67-66-3	
Chloromethane	**1.2**	ug/L	1.0	0.68	1		07/01/19 21:58	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/01/19 21:58	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/01/19 21:58	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 21:58	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		07/01/19 21:58	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/01/19 21:58	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/01/19 21:58	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		07/01/19 21:58	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		07/01/19 21:58	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 21:58	127-18-4	
Toluene	**3.2**	ug/L	1.0	0.30	1		07/01/19 21:58	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/01/19 21:58	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 21:58	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		07/01/19 21:58	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 21:58	75-01-4	
Xylene (Total)	**5.8**	ug/L	3.0	0.78	1		07/01/19 21:58	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/01/19 21:58	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 21:58	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C062-PZM007 **Lab ID: 30310157003** Collected: 06/21/19 10:20 Received: 06/21/19 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		07/01/19 21:58	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/01/19 21:58	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		07/01/19 21:58	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		07/01/19 21:58	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		1		07/01/19 21:58	17060-07-0	
Toluene-d8 (S)	102	%.	80-120		1		07/01/19 21:58	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		07/01/19 21:58	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C063-PZM007 **Lab ID: 30310157004** Collected: 06/21/19 10:59 Received: 06/21/19 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		07/02/19 03:22	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 03:22	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 03:22	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 03:22	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		07/02/19 03:22	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 03:22	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		07/02/19 03:22	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		07/02/19 03:22	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 03:22	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		07/02/19 03:22	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 03:22	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 03:22	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 03:22	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		07/02/19 03:22	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		07/02/19 03:22	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		07/02/19 03:22	108-10-1	
Acetone	**27.7J**	ug/L	50.0	14.2	5		07/02/19 03:22	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		07/02/19 03:22	107-13-1	
Benzene	**413**	ug/L	5.0	1.2	5		07/02/19 03:22	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 03:22	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 03:22	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 03:22	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		07/02/19 03:22	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 03:22	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 03:22	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		07/02/19 03:22	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		07/02/19 03:22	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		07/02/19 03:22	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		07/02/19 03:22	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 03:22	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 03:22	74-95-3	
Ethylbenzene	**23.5**	ug/L	5.0	1.6	5		07/02/19 03:22	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		07/02/19 03:22	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 03:22	1634-04-4	
Methylene Chloride	**4.3J**	ug/L	5.0	3.8	5		07/02/19 03:22	75-09-2	B
Naphthalene	**4500**	ug/L	100	41.0	50		07/02/19 03:47	91-20-3	
Styrene	**55.3**	ug/L	5.0	0.85	5		07/02/19 03:22	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 03:22	127-18-4	
Toluene	**203**	ug/L	5.0	1.5	5		07/02/19 03:22	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 03:22	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 03:22	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		07/02/19 03:22	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 03:22	75-01-4	
Xylene (Total)	**399**	ug/L	15.0	3.9	5		07/02/19 03:22	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		07/02/19 03:22	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 03:22	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C063-PZM007 **Lab ID: 30310157004** Collected: 06/21/19 10:59 Received: 06/21/19 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		07/02/19 03:22	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		07/02/19 03:22	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		07/02/19 03:22	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	78-122		5		07/02/19 03:22	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		5		07/02/19 03:22	17060-07-0	
Toluene-d8 (S)	103	%.	80-120		5		07/02/19 03:22	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		5		07/02/19 03:22	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C064-PZM006 **Lab ID: 30310157005** Collected: 06/21/19 11:29 Received: 06/21/19 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		07/02/19 04:12	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 04:12	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 04:12	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 04:12	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		07/02/19 04:12	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 04:12	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		07/02/19 04:12	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		07/02/19 04:12	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 04:12	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		07/02/19 04:12	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 04:12	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 04:12	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 04:12	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		07/02/19 04:12	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		07/02/19 04:12	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		07/02/19 04:12	108-10-1	
Acetone	**30.6J**	ug/L	50.0	14.2	5		07/02/19 04:12	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		07/02/19 04:12	107-13-1	
Benzene	**423**	ug/L	5.0	1.2	5		07/02/19 04:12	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 04:12	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 04:12	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 04:12	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		07/02/19 04:12	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 04:12	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 04:12	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		07/02/19 04:12	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		07/02/19 04:12	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		07/02/19 04:12	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		07/02/19 04:12	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 04:12	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 04:12	74-95-3	
Ethylbenzene	**24.0**	ug/L	5.0	1.6	5		07/02/19 04:12	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		07/02/19 04:12	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 04:12	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		07/02/19 04:12	75-09-2	
Naphthalene	**4790**	ug/L	100	41.0	50		07/02/19 04:37	91-20-3	
Styrene	**68.2**	ug/L	5.0	0.85	5		07/02/19 04:12	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 04:12	127-18-4	
Toluene	**204**	ug/L	5.0	1.5	5		07/02/19 04:12	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 04:12	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 04:12	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		07/02/19 04:12	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 04:12	75-01-4	
Xylene (Total)	**422**	ug/L	15.0	3.9	5		07/02/19 04:12	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		07/02/19 04:12	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 04:12	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C064-PZM006 **Lab ID: 30310157005** Collected: 06/21/19 11:29 Received: 06/21/19 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		07/02/19 04:12	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		07/02/19 04:12	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		07/02/19 04:12	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		5		07/02/19 04:12	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		5		07/02/19 04:12	17060-07-0	
Toluene-d8 (S)	102	%.	80-120		5		07/02/19 04:12	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		5		07/02/19 04:12	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C065-PZM005 **Lab ID: 30310157006** Collected: 06/21/19 11:57 Received: 06/21/19 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		07/02/19 05:02	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 05:02	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 05:02	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 05:02	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		07/02/19 05:02	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 05:02	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		07/02/19 05:02	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		07/02/19 05:02	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 05:02	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		07/02/19 05:02	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 05:02	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 05:02	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 05:02	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		07/02/19 05:02	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		07/02/19 05:02	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		07/02/19 05:02	108-10-1	
Acetone	**26.9J**	ug/L	50.0	14.2	5		07/02/19 05:02	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		07/02/19 05:02	107-13-1	
Benzene	**445**	ug/L	5.0	1.2	5		07/02/19 05:02	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 05:02	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 05:02	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 05:02	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		07/02/19 05:02	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 05:02	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 05:02	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		07/02/19 05:02	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		07/02/19 05:02	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		07/02/19 05:02	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		07/02/19 05:02	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 05:02	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 05:02	74-95-3	
Ethylbenzene	**25.1**	ug/L	5.0	1.6	5		07/02/19 05:02	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		07/02/19 05:02	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 05:02	1634-04-4	
Methylene Chloride	**4.1J**	ug/L	5.0	3.8	5		07/02/19 05:02	75-09-2	B
Naphthalene	**5210**	ug/L	100	41.0	50		07/02/19 05:27	91-20-3	
Styrene	**85.1**	ug/L	5.0	0.85	5		07/02/19 05:02	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 05:02	127-18-4	
Toluene	**237**	ug/L	5.0	1.5	5		07/02/19 05:02	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 05:02	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 05:02	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		07/02/19 05:02	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 05:02	75-01-4	
Xylene (Total)	**473**	ug/L	15.0	3.9	5		07/02/19 05:02	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		07/02/19 05:02	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 05:02	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C065-PZM005 **Lab ID: 30310157006** Collected: 06/21/19 11:57 Received: 06/21/19 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		07/02/19 05:02	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		07/02/19 05:02	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		07/02/19 05:02	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		07/02/19 05:02	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		5		07/02/19 05:02	17060-07-0	
Toluene-d8 (S)	102	%.	80-120		5		07/02/19 05:02	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		5		07/02/19 05:02	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C066-PZM005 **Lab ID: 30310157007** Collected: 06/21/19 12:25 Received: 06/21/19 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		07/01/19 23:25	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		07/01/19 23:25	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		07/01/19 23:25	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		07/01/19 23:25	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		07/01/19 23:25	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/01/19 23:25	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		07/01/19 23:25	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		07/01/19 23:25	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		07/01/19 23:25	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		07/01/19 23:25	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		07/01/19 23:25	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		07/01/19 23:25	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		07/01/19 23:25	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		07/01/19 23:25	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		07/01/19 23:25	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		07/01/19 23:25	108-10-1	
Acetone	**33.5J**	ug/L	50.0	14.2	5		07/01/19 23:25	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		07/01/19 23:25	107-13-1	
Benzene	**228**	ug/L	5.0	1.2	5		07/01/19 23:25	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		07/01/19 23:25	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/01/19 23:25	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		07/01/19 23:25	75-25-2	
Bromomethane	**3.5J**	ug/L	5.0	2.4	5		07/01/19 23:25	74-83-9	R1
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		07/01/19 23:25	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		07/01/19 23:25	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		07/01/19 23:25	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		07/01/19 23:25	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		07/01/19 23:25	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		07/01/19 23:25	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/01/19 23:25	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		07/01/19 23:25	74-95-3	
Ethylbenzene	**11.5**	ug/L	5.0	1.6	5		07/01/19 23:25	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		07/01/19 23:25	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		07/01/19 23:25	1634-04-4	
Methylene Chloride	**4.6J**	ug/L	5.0	3.8	5		07/01/19 23:25	75-09-2	B
Naphthalene	**1850**	ug/L	10.0	4.1	5		07/01/19 23:25	91-20-3	ML
Styrene	**23.4**	ug/L	5.0	0.85	5		07/01/19 23:25	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/01/19 23:25	127-18-4	
Toluene	**81.9**	ug/L	5.0	1.5	5		07/01/19 23:25	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		07/01/19 23:25	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		07/01/19 23:25	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		07/01/19 23:25	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		07/01/19 23:25	75-01-4	
Xylene (Total)	**187**	ug/L	15.0	3.9	5		07/01/19 23:25	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		07/01/19 23:25	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		07/01/19 23:25	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C066-PZM005 **Lab ID: 30310157007** Collected: 06/21/19 12:25 Received: 06/21/19 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		07/01/19 23:25	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		07/01/19 23:25	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		07/01/19 23:25	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		07/01/19 23:25	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		5		07/01/19 23:25	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		07/01/19 23:25	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		5		07/01/19 23:25	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C067-PZM006 **Lab ID: 30310157008** Collected: 06/21/19 12:59 Received: 06/21/19 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		07/01/19 23:13	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 23:13	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 23:13	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 23:13	79-00-5	
1,1-Dichloroethane	**0.34J**	ug/L	1.0	0.19	1		07/01/19 23:13	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 23:13	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/01/19 23:13	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		07/01/19 23:13	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 23:13	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/01/19 23:13	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 23:13	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/01/19 23:13	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 23:13	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		07/01/19 23:13	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		07/01/19 23:13	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		07/01/19 23:13	108-10-1	
Acetone	**4.5J**	ug/L	10.0	2.8	1		07/01/19 23:13	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/01/19 23:13	107-13-1	
Benzene	**225**	ug/L	1.0	0.24	1		07/01/19 23:13	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 23:13	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/01/19 23:13	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 23:13	75-25-2	
Bromomethane	**0.92J**	ug/L	1.0	0.49	1		07/01/19 23:13	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 23:13	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 23:13	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/01/19 23:13	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/01/19 23:13	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/01/19 23:13	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		07/01/19 23:13	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/01/19 23:13	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/01/19 23:13	74-95-3	
Ethylbenzene	**13.6**	ug/L	1.0	0.31	1		07/01/19 23:13	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		07/01/19 23:13	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/01/19 23:13	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/01/19 23:13	75-09-2	
Naphthalene	**1500**	ug/L	10.0	4.1	5		07/02/19 00:03	91-20-3	
Styrene	**57.3**	ug/L	1.0	0.17	1		07/01/19 23:13	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 23:13	127-18-4	
Toluene	**122**	ug/L	1.0	0.30	1		07/01/19 23:13	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/01/19 23:13	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 23:13	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		07/01/19 23:13	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 23:13	75-01-4	
Xylene (Total)	**268**	ug/L	3.0	0.78	1		07/01/19 23:13	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/01/19 23:13	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 23:13	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C067-PZM006 **Lab ID: 30310157008** Collected: 06/21/19 12:59 Received: 06/21/19 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		07/01/19 23:13	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/01/19 23:13	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		07/01/19 23:13	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		1		07/01/19 23:13	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		1		07/01/19 23:13	17060-07-0	
Toluene-d8 (S)	102	%.	80-120		1		07/01/19 23:13	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		07/01/19 23:13	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C068-PZM005 **Lab ID: 30310157009** Collected: 06/21/19 13:29 Received: 06/21/19 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		07/02/19 01:42	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/02/19 01:42	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 01:42	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 01:42	79-00-5	
1,1-Dichloroethane	**0.33J**	ug/L	1.0	0.19	1		07/02/19 01:42	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/02/19 01:42	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/02/19 01:42	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		07/02/19 01:42	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 01:42	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/02/19 01:42	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/02/19 01:42	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/02/19 01:42	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 01:42	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		07/02/19 01:42	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		07/02/19 01:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		07/02/19 01:42	108-10-1	
Acetone	**3.6J**	ug/L	10.0	2.8	1		07/02/19 01:42	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/02/19 01:42	107-13-1	
Benzene	**227**	ug/L	1.0	0.24	1		07/02/19 01:42	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 01:42	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/02/19 01:42	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 01:42	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		07/02/19 01:42	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 01:42	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 01:42	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/02/19 01:42	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/02/19 01:42	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/02/19 01:42	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		07/02/19 01:42	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/02/19 01:42	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/02/19 01:42	74-95-3	
Ethylbenzene	**12.4**	ug/L	1.0	0.31	1		07/02/19 01:42	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		07/02/19 01:42	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/02/19 01:42	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/02/19 01:42	75-09-2	
Naphthalene	**3740**	ug/L	40.0	16.4	20		07/02/19 02:07	91-20-3	
Styrene	**54.2**	ug/L	1.0	0.17	1		07/02/19 01:42	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 01:42	127-18-4	
Toluene	**110**	ug/L	1.0	0.30	1		07/02/19 01:42	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/02/19 01:42	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/02/19 01:42	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		07/02/19 01:42	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/02/19 01:42	75-01-4	
Xylene (Total)	**247**	ug/L	3.0	0.78	1		07/02/19 01:42	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/02/19 01:42	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		07/02/19 01:42	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C068-PZM005 **Lab ID: 30310157009** Collected: 06/21/19 13:29 Received: 06/21/19 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		07/02/19 01:42	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/02/19 01:42	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		07/02/19 01:42	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		07/02/19 01:42	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		07/02/19 01:42	17060-07-0	
Toluene-d8 (S)	103	%.	80-120		1		07/02/19 01:42	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		07/02/19 01:42	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C069-PZM005 **Lab ID: 30310157010** Collected: 06/21/19 13:55 Received: 06/21/19 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		07/01/19 22:48	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 22:48	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 22:48	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 22:48	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		07/01/19 22:48	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 22:48	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/01/19 22:48	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		07/01/19 22:48	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 22:48	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/01/19 22:48	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 22:48	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/01/19 22:48	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/01/19 22:48	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		07/01/19 22:48	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		07/01/19 22:48	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		07/01/19 22:48	108-10-1	
Acetone	**6.6J**	ug/L	10.0	2.8	1		07/01/19 22:48	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/01/19 22:48	107-13-1	
Benzene	**209**	ug/L	1.0	0.24	1		07/01/19 22:48	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 22:48	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/01/19 22:48	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 22:48	75-25-2	
Bromomethane	**0.75J**	ug/L	1.0	0.49	1		07/01/19 22:48	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 22:48	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/01/19 22:48	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/01/19 22:48	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/01/19 22:48	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/01/19 22:48	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		07/01/19 22:48	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/01/19 22:48	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/01/19 22:48	74-95-3	
Ethylbenzene	**10.9**	ug/L	1.0	0.31	1		07/01/19 22:48	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		07/01/19 22:48	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/01/19 22:48	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/01/19 22:48	75-09-2	
Naphthalene	**1060**	ug/L	10.0	4.1	5		07/03/19 00:02	91-20-3	
Styrene	**42.1**	ug/L	1.0	0.17	1		07/01/19 22:48	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/01/19 22:48	127-18-4	
Toluene	**106**	ug/L	1.0	0.30	1		07/01/19 22:48	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/01/19 22:48	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/01/19 22:48	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		07/01/19 22:48	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/01/19 22:48	75-01-4	
Xylene (Total)	**212**	ug/L	3.0	0.78	1		07/01/19 22:48	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/01/19 22:48	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		07/01/19 22:48	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C069-PZM005 **Lab ID: 30310157010** Collected: 06/21/19 13:55 Received: 06/21/19 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		07/01/19 22:48	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/01/19 22:48	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		07/01/19 22:48	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		07/01/19 22:48	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		1		07/01/19 22:48	17060-07-0	
Toluene-d8 (S)	102	%.	80-120		1		07/01/19 22:48	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		07/01/19 22:48	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C070-PZM005 **Lab ID: 30310157011** Collected: 06/21/19 14:25 Received: 06/21/19 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		07/02/19 02:32	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		07/02/19 02:32	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 02:32	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 02:32	79-00-5	
1,1-Dichloroethane	**0.25J**	ug/L	1.0	0.19	1		07/02/19 02:32	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		07/02/19 02:32	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		07/02/19 02:32	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		07/02/19 02:32	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 02:32	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		07/02/19 02:32	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		07/02/19 02:32	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		07/02/19 02:32	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		07/02/19 02:32	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		07/02/19 02:32	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		07/02/19 02:32	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		07/02/19 02:32	108-10-1	
Acetone	**3.7J**	ug/L	10.0	2.8	1		07/02/19 02:32	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		07/02/19 02:32	107-13-1	
Benzene	**71.7**	ug/L	1.0	0.24	1		07/02/19 02:32	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 02:32	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		07/02/19 02:32	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 02:32	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		07/02/19 02:32	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 02:32	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		07/02/19 02:32	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		07/02/19 02:32	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		07/02/19 02:32	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		07/02/19 02:32	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		07/02/19 02:32	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		07/02/19 02:32	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		07/02/19 02:32	74-95-3	
Ethylbenzene	**4.0**	ug/L	1.0	0.31	1		07/02/19 02:32	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		07/02/19 02:32	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		07/02/19 02:32	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		07/02/19 02:32	75-09-2	
Naphthalene	**1040**	ug/L	40.0	16.4	20		07/02/19 02:57	91-20-3	
Styrene	**8.6**	ug/L	1.0	0.17	1		07/02/19 02:32	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		07/02/19 02:32	127-18-4	
Toluene	**25.7**	ug/L	1.0	0.30	1		07/02/19 02:32	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		07/02/19 02:32	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		07/02/19 02:32	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		07/02/19 02:32	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		07/02/19 02:32	75-01-4	
Xylene (Total)	**68.1**	ug/L	3.0	0.78	1		07/02/19 02:32	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		07/02/19 02:32	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		07/02/19 02:32	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C070-PZM005 **Lab ID: 30310157011** Collected: 06/21/19 14:25 Received: 06/21/19 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		07/02/19 02:32	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		07/02/19 02:32	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		07/02/19 02:32	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		07/02/19 02:32	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		1		07/02/19 02:32	17060-07-0	
Toluene-d8 (S)	101	%.	80-120		1		07/02/19 02:32	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		07/02/19 02:32	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C071-PZM006 **Lab ID: 30310157012** Collected: 06/21/19 14:00 Received: 06/21/19 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		07/01/19 23:38	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		07/01/19 23:38	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		07/01/19 23:38	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		07/01/19 23:38	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		07/01/19 23:38	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/01/19 23:38	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		07/01/19 23:38	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		07/01/19 23:38	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		07/01/19 23:38	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		07/01/19 23:38	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		07/01/19 23:38	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		07/01/19 23:38	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		07/01/19 23:38	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		07/01/19 23:38	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		07/01/19 23:38	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		07/01/19 23:38	108-10-1	
Acetone	**52.4**	ug/L	50.0	14.2	5		07/01/19 23:38	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		07/01/19 23:38	107-13-1	R1
Benzene	**232**	ug/L	5.0	1.2	5		07/01/19 23:38	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		07/01/19 23:38	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/01/19 23:38	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		07/01/19 23:38	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		07/01/19 23:38	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		07/01/19 23:38	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		07/01/19 23:38	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		07/01/19 23:38	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		07/01/19 23:38	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		07/01/19 23:38	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		07/01/19 23:38	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/01/19 23:38	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		07/01/19 23:38	74-95-3	
Ethylbenzene	**14.3**	ug/L	5.0	1.6	5		07/01/19 23:38	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		07/01/19 23:38	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		07/01/19 23:38	1634-04-4	
Methylene Chloride	**5.1**	ug/L	5.0	3.8	5		07/01/19 23:38	75-09-2	B
Naphthalene	**1440**	ug/L	20.0	8.2	10		07/03/19 00:27	91-20-3	ML
Styrene	**54.9**	ug/L	5.0	0.85	5		07/01/19 23:38	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/01/19 23:38	127-18-4	
Toluene	**125**	ug/L	5.0	1.5	5		07/01/19 23:38	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		07/01/19 23:38	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		07/01/19 23:38	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		07/01/19 23:38	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		07/01/19 23:38	75-01-4	
Xylene (Total)	**278**	ug/L	15.0	3.9	5		07/01/19 23:38	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		07/01/19 23:38	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		07/01/19 23:38	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C071-PZM006 **Lab ID: 30310157012** Collected: 06/21/19 14:00 Received: 06/21/19 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		07/01/19 23:38	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		07/01/19 23:38	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		07/01/19 23:38	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		07/01/19 23:38	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		5		07/01/19 23:38	17060-07-0	
Toluene-d8 (S)	102	%.	80-120		5		07/01/19 23:38	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		07/01/19 23:38	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C072-PZM005 **Lab ID: 30310157013** Collected: 06/21/19 13:35 Received: 06/21/19 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		07/02/19 00:28	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 00:28	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 00:28	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 00:28	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		07/02/19 00:28	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 00:28	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		07/02/19 00:28	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		07/02/19 00:28	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 00:28	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		07/02/19 00:28	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 00:28	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 00:28	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		07/02/19 00:28	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		07/02/19 00:28	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		07/02/19 00:28	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		07/02/19 00:28	108-10-1	
Acetone	**33.1J**	ug/L	50.0	14.2	5		07/02/19 00:28	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		07/02/19 00:28	107-13-1	
Benzene	**236**	ug/L	5.0	1.2	5		07/02/19 00:28	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 00:28	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 00:28	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 00:28	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		07/02/19 00:28	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 00:28	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		07/02/19 00:28	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		07/02/19 00:28	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		07/02/19 00:28	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		07/02/19 00:28	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		07/02/19 00:28	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 00:28	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 00:28	74-95-3	
Ethylbenzene	**10.2**	ug/L	5.0	1.6	5		07/02/19 00:28	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		07/02/19 00:28	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 00:28	1634-04-4	
Methylene Chloride	**4.6J**	ug/L	5.0	3.8	5		07/02/19 00:28	75-09-2	B
Naphthalene	**2200**	ug/L	20.0	8.2	10		07/03/19 00:52	91-20-3	
Styrene	**54.6**	ug/L	5.0	0.85	5		07/02/19 00:28	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 00:28	127-18-4	
Toluene	**111**	ug/L	5.0	1.5	5		07/02/19 00:28	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		07/02/19 00:28	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		07/02/19 00:28	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		07/02/19 00:28	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		07/02/19 00:28	75-01-4	
Xylene (Total)	**219**	ug/L	15.0	3.9	5		07/02/19 00:28	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		07/02/19 00:28	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		07/02/19 00:28	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30310157

Sample: C072-PZM005 **Lab ID: 30310157013** Collected: 06/21/19 13:35 Received: 06/21/19 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		07/02/19 00:28	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		07/02/19 00:28	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		07/02/19 00:28	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		5		07/02/19 00:28	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		5		07/02/19 00:28	17060-07-0	
Toluene-d8 (S)	101	%.	80-120		5		07/02/19 00:28	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		07/02/19 00:28	1868-53-7	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30310157

QC Batch: 349935 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30310157001, 30310157002, 30310157003, 30310157004, 30310157005, 30310157006, 30310157008, 30310157009, 30310157010, 30310157011, 30310157012, 30310157013

METHOD BLANK: 1701199 Matrix: Water
Associated Lab Samples: 30310157001, 30310157002, 30310157003, 30310157004, 30310157005, 30310157006, 30310157008, 30310157009, 30310157010, 30310157011, 30310157012, 30310157013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	07/01/19 21:08	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	07/01/19 21:08	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	07/01/19 21:08	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	07/01/19 21:08	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	07/01/19 21:08	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	07/01/19 21:08	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	07/01/19 21:08	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	07/01/19 21:08	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	07/01/19 21:08	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	07/01/19 21:08	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	07/01/19 21:08	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	07/01/19 21:08	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	07/01/19 21:08	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	07/01/19 21:08	
2-Hexanone	ug/L	10.0 U	10.0	0.66	07/01/19 21:08	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	07/01/19 21:08	
Acetone	ug/L	6.0J	10.0	2.8	07/01/19 21:08	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	07/01/19 21:08	
Benzene	ug/L	1.0 U	1.0	0.24	07/01/19 21:08	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	07/01/19 21:08	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	07/01/19 21:08	
Bromoform	ug/L	1.0 U	1.0	0.32	07/01/19 21:08	
Bromomethane	ug/L	0.52J	1.0	0.49	07/01/19 21:08	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	07/01/19 21:08	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	07/01/19 21:08	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	07/01/19 21:08	
Chloroethane	ug/L	1.0 U	1.0	0.55	07/01/19 21:08	
Chloroform	ug/L	1.0 U	1.0	0.30	07/01/19 21:08	
Chloromethane	ug/L	1.0 U	1.0	0.68	07/01/19 21:08	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	07/01/19 21:08	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	07/01/19 21:08	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	07/01/19 21:08	
Dibromomethane	ug/L	1.0 U	1.0	0.40	07/01/19 21:08	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	07/01/19 21:08	
Iodomethane	ug/L	50.0 U	50.0	0.67	07/01/19 21:08	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	07/01/19 21:08	
Methylene Chloride	ug/L	1.1	1.0	0.77	07/01/19 21:08	B
Naphthalene	ug/L	2.0 U	2.0	0.82	07/01/19 21:08	
Styrene	ug/L	1.0 U	1.0	0.17	07/01/19 21:08	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	07/01/19 21:08	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30310157

METHOD BLANK: 1701199 Matrix: Water

Associated Lab Samples: 30310157001, 30310157002, 30310157003, 30310157004, 30310157005, 30310157006, 30310157008, 30310157009, 30310157010, 30310157011, 30310157012, 30310157013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.30	07/01/19 21:08	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	07/01/19 21:08	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	07/01/19 21:08	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	07/01/19 21:08	
Trichloroethene	ug/L	1.0 U	1.0	0.39	07/01/19 21:08	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	07/01/19 21:08	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	07/01/19 21:08	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	07/01/19 21:08	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	07/01/19 21:08	
1,2-Dichloroethane-d4 (S)	%.	100	80-120		07/01/19 21:08	
4-Bromofluorobenzene (S)	%.	99	78-122		07/01/19 21:08	
Dibromofluoromethane (S)	%.	99	80-120		07/01/19 21:08	
Toluene-d8 (S)	%.	103	80-120		07/01/19 21:08	

LABORATORY CONTROL SAMPLE: 1701200

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	19.1	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	97	70-130	
1,1,2-Trichloroethane	ug/L	20	20.4	102	70-130	
1,1-Dichloroethane	ug/L	20	18.1	91	68-121	
1,1-Dichloroethene	ug/L	20	17.8	89	63-129	
1,2,3-Trichloropropane	ug/L	20	20.5	103	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.1	96	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.9	104	70-130	
1,2-Dichlorobenzene	ug/L	20	20.2	101	70-130	
1,2-Dichloroethane	ug/L	20	18.6	93	67-117	
1,2-Dichloropropane	ug/L	20	19.8	99	69-121	
1,4-Dichlorobenzene	ug/L	20	20.9	105	70-130	
2-Butanone (MEK)	ug/L	20	17.9	90	59-128	
2-Hexanone	ug/L	20	19.2	96	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.7	94	63-126	
Acetone	ug/L	20	22.3	112	37-150	
Acrylonitrile	ug/L	20	14.2	71	62-128	
Benzene	ug/L	20	19.9	99	70-130	
Bromochloromethane	ug/L	20	19.5	97	59-137	
Bromodichloromethane	ug/L	20	20.9	105	70-130	
Bromoform	ug/L	20	16.5	83	65-130	
Bromomethane	ug/L	20	16.8	84	45-148	
Carbon disulfide	ug/L	20	18.8	94	55-123	
Carbon tetrachloride	ug/L	20	19.7	98	69-126	
Chlorobenzene	ug/L	20	21.1	106	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30310157

LABORATORY CONTROL SAMPLE: 1701200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	18.7	94	68-146	
Chloroform	ug/L	20	19.0	95	69-116	
Chloromethane	ug/L	20	17.6	88	56-129	
cis-1,2-Dichloroethene	ug/L	20	18.9	95	66-118	
cis-1,3-Dichloropropene	ug/L	20	19.7	99	70-130	
Dibromochloromethane	ug/L	20	20.5	102	70-130	
Dibromomethane	ug/L	20	19.8	99	70-130	
Ethylbenzene	ug/L	20	21.0	105	70-130	
Iodomethane	ug/L	20	16.1J	81	10-175	
Methyl-tert-butyl ether	ug/L	20	19.0	95	70-130	
Methylene Chloride	ug/L	20	17.9	89	65-124	
Naphthalene	ug/L	20	21.5	107	69-135	
Styrene	ug/L	20	21.3	107	70-130	
Tetrachloroethene	ug/L	20	21.8	109	70-130	
Toluene	ug/L	20	21.1	105	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	64-123	
trans-1,3-Dichloropropene	ug/L	20	20.4	102	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	18.1	91	37-119	
Trichloroethene	ug/L	20	19.6	98	70-130	
Trichlorofluoromethane	ug/L	20	21.2	106	64-163	
Vinyl acetate	ug/L	20	18.4	92	45-129	
Vinyl chloride	ug/L	20	19.0	95	70-130	
Xylene (Total)	ug/L	60	63.7	106	70-130	
1,2-Dichloroethane-d4 (S)	%.			99	80-120	
4-Bromofluorobenzene (S)	%.			101	78-122	
Dibromofluoromethane (S)	%.			99	80-120	
Toluene-d8 (S)	%.			104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701201 1701202

Parameter	Units	30310157012 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	5.0 U	100	100	96.8	88.9	97	89	52-123	9	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	95.9	86.9	96	87	67-127	10	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	92.8	84.2	93	84	55-118	10	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	101	92.2	101	92	60-117	9	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	87.8	84.4	87	84	68-118	4	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	93.7	85.1	94	85	62-126	10	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	96.3	89.5	96	89	56-129	7	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	84.7	77.7	85	78	46-130	9	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	100	89.6	100	90	69-124	11	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	98.1	90.1	98	90	66-116	9	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	92.0	83.0	92	83	67-117	10	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	96.4	88.5	96	89	61-128	8	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30310157

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701201 1701202

Parameter	Units	30310157012 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	5.0 U	100	100	99.3	92.5	99	93	68-116	7	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	88.1	80.0	84	76	63-175	10	30	
2-Hexanone	ug/L	50.0 U	100	100	98.6	85.9	99	86	65-151	14	30	
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	99.4	85.9	99	86	66-149	15	30	
Acetone	ug/L	52.4	100	100	130	124	78	72	10-175	5	30	
Acrylonitrile	ug/L	20.0 U	100	100	108	73.8	108	74	42-165	38	30	R1
Benzene	ug/L	232	100	100	340	330	109	98	67-119	3	30	
Bromochloromethane	ug/L	5.0 U	100	100	106	98.5	106	99	64-124	8	30	
Bromodichloromethane	ug/L	5.0 U	100	100	95.3	89.7	95	90	67-126	6	30	
Bromoform	ug/L	5.0 U	100	100	67.0	63.8	67	64	43-114	5	30	
Bromomethane	ug/L	5.0 U	100	100	73.6	94.1	74	94	10-164	24	30	
Carbon disulfide	ug/L	5.0 U	100	100	95.8	81.6	96	82	37-135	16	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	85.3	84.7	85	85	60-137	1	30	
Chlorobenzene	ug/L	5.0 U	100	100	107	96.7	107	97	68-119	10	30	
Chloroethane	ug/L	5.0 U	100	100	97.9	79.3	98	79	54-169	21	30	
Chloroform	ug/L	5.0 U	100	100	100	89.1	100	89	69-113	12	30	
Chloromethane	ug/L	5.0 U	100	100	89.6	91.8	90	92	43-159	2	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	93.5	87.7	94	88	65-121	6	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	89.9	84.2	90	84	61-120	7	30	
Dibromochloromethane	ug/L	5.0 U	100	100	88.9	83.8	89	84	56-121	6	30	
Dibromomethane	ug/L	5.0 U	100	100	94.9	87.4	95	87	56-133	8	30	
Ethylbenzene	ug/L	14.3	100	100	115	106	100	91	69-127	8	30	
Iodomethane	ug/L	250 U	100	100	92.1J	89.0J	92	89	10-152		30	
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	96.9	83.0	97	83	70-130	15	30	
Methylene Chloride	ug/L	5.1	100	100	93.7	84.3	89	79	49-144	11	30	
Naphthalene	ug/L	1440	100	100	1470	1540	23	95	60-136	5	30	ML
Styrene	ug/L	54.9	100	100	157	147	102	92	65-120	6	30	
Tetrachloroethene	ug/L	5.0 U	100	100	108	99.0	108	99	64-123	8	30	
Toluene	ug/L	125	100	100	219	208	94	83	70-130	6	30	
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	90.4	85.4	90	85	66-119	6	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	93.9	83.6	94	84	52-117	12	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	81.8	73.0	82	73	13-100	11	30	
Trichloroethene	ug/L	5.0 U	100	100	103	93.2	103	93	63-125	10	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	96.9	91.5	97	91	43-186	6	30	
Vinyl acetate	ug/L	50.0 U	100	100	79.5	77.2	80	77	35-150	3	30	
Vinyl chloride	ug/L	5.0 U	100	100	89.5	90.2	90	90	60-133	1	30	
Xylene (Total)	ug/L	278	300	300	526	490	82	70	69-128	7	30	
1,2-Dichloroethane-d4 (S)	%.						97	98	80-120			
4-Bromofluorobenzene (S)	%.						99	102	78-122			
Dibromofluoromethane (S)	%.						97	99	80-120			
Toluene-d8 (S)	%.						104	104	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30310157

QC Batch: 349937 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30310157007

METHOD BLANK: 1701204 Matrix: Water
Associated Lab Samples: 30310157007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	07/01/19 21:20	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	07/01/19 21:20	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	07/01/19 21:20	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	07/01/19 21:20	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	07/01/19 21:20	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	07/01/19 21:20	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	07/01/19 21:20	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	07/01/19 21:20	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	07/01/19 21:20	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	07/01/19 21:20	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	07/01/19 21:20	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	07/01/19 21:20	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	07/01/19 21:20	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	07/01/19 21:20	
2-Hexanone	ug/L	10.0 U	10.0	0.66	07/01/19 21:20	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	07/01/19 21:20	
Acetone	ug/L	5.6J	10.0	2.8	07/01/19 21:20	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	07/01/19 21:20	
Benzene	ug/L	1.0 U	1.0	0.24	07/01/19 21:20	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	07/01/19 21:20	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	07/01/19 21:20	
Bromoform	ug/L	1.0 U	1.0	0.32	07/01/19 21:20	
Bromomethane	ug/L	1.0 U	1.0	0.49	07/01/19 21:20	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	07/01/19 21:20	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	07/01/19 21:20	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	07/01/19 21:20	
Chloroethane	ug/L	1.0 U	1.0	0.55	07/01/19 21:20	
Chloroform	ug/L	1.0 U	1.0	0.30	07/01/19 21:20	
Chloromethane	ug/L	1.0 U	1.0	0.68	07/01/19 21:20	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	07/01/19 21:20	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	07/01/19 21:20	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	07/01/19 21:20	
Dibromomethane	ug/L	1.0 U	1.0	0.40	07/01/19 21:20	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	07/01/19 21:20	
Iodomethane	ug/L	50.0 U	50.0	0.67	07/01/19 21:20	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	07/01/19 21:20	
Methylene Chloride	ug/L	1.0	1.0	0.77	07/01/19 21:20	B
Naphthalene	ug/L	2.0 U	2.0	0.82	07/01/19 21:20	
Styrene	ug/L	1.0 U	1.0	0.17	07/01/19 21:20	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	07/01/19 21:20	
Toluene	ug/L	1.0 U	1.0	0.30	07/01/19 21:20	

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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.: 30310157

METHOD BLANK: 1701204 Matrix: Water
Associated Lab Samples: 30310157007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	07/01/19 21:20	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	07/01/19 21:20	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	07/01/19 21:20	
Trichloroethene	ug/L	1.0 U	1.0	0.39	07/01/19 21:20	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	07/01/19 21:20	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	07/01/19 21:20	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	07/01/19 21:20	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	07/01/19 21:20	
1,2-Dichloroethane-d4 (S)	%.	103	80-120		07/01/19 21:20	
4-Bromofluorobenzene (S)	%.	99	78-122		07/01/19 21:20	
Dibromofluoromethane (S)	%.	101	80-120		07/01/19 21:20	
Toluene-d8 (S)	%.	96	80-120		07/01/19 21:20	

LABORATORY CONTROL SAMPLE: 1701205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.8	99	70-130	
1,1,1-Trichloroethane	ug/L	20	19.7	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	70-130	
1,1,2-Trichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	20	19.1	95	68-121	
1,1-Dichloroethene	ug/L	20	18.2	91	63-129	
1,2,3-Trichloropropane	ug/L	20	19.8	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.7	93	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.4	102	70-130	
1,2-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	18.1	90	67-117	
1,2-Dichloropropane	ug/L	20	18.9	95	69-121	
1,4-Dichlorobenzene	ug/L	20	20.7	103	70-130	
2-Butanone (MEK)	ug/L	20	17.8	89	59-128	
2-Hexanone	ug/L	20	17.7	88	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.0	90	63-126	
Acetone	ug/L	20	20.1	100	37-150	
Acrylonitrile	ug/L	20	15.6	78	62-128	
Benzene	ug/L	20	19.9	99	70-130	
Bromochloromethane	ug/L	20	22.2	111	59-137	
Bromodichloromethane	ug/L	20	21.0	105	70-130	
Bromoform	ug/L	20	16.9	84	65-130	
Bromomethane	ug/L	20	22.2	111	45-148	
Carbon disulfide	ug/L	20	17.8	89	55-123	
Carbon tetrachloride	ug/L	20	20.3	102	69-126	
Chlorobenzene	ug/L	20	20.6	103	70-130	
Chloroethane	ug/L	20	22.1	110	68-146	
Chloroform	ug/L	20	19.8	99	69-116	

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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.: 30310157

LABORATORY CONTROL SAMPLE: 1701205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.9	85	56-129	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	66-118	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	70-130	
Dibromochloromethane	ug/L	20	17.7	89	70-130	
Dibromomethane	ug/L	20	20.0	100	70-130	
Ethylbenzene	ug/L	20	20.4	102	70-130	
Iodomethane	ug/L	20	22.8J	114	10-175	
Methyl-tert-butyl ether	ug/L	20	18.7	93	70-130	
Methylene Chloride	ug/L	20	16.5	83	65-124	
Naphthalene	ug/L	20	20.1	100	69-135	
Styrene	ug/L	20	20.5	102	70-130	
Tetrachloroethene	ug/L	20	20.3	101	70-130	
Toluene	ug/L	20	20.6	103	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.0	95	64-123	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	17.3	86	37-119	
Trichloroethene	ug/L	20	20.0	100	70-130	
Trichlorofluoromethane	ug/L	20	22.1	111	64-163	
Vinyl acetate	ug/L	20	18.0	90	45-129	
Vinyl chloride	ug/L	20	19.9	99	70-130	
Xylene (Total)	ug/L	60	62.1	103	70-130	
1,2-Dichloroethane-d4 (S)	%.			96	80-120	
4-Bromofluorobenzene (S)	%.			102	78-122	
Dibromofluoromethane (S)	%.			98	80-120	
Toluene-d8 (S)	%.			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701206 1701207

Parameter	Units	30310157007 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	5.0 U	100	100	84.8	85.5	85	86	52-123	1	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	86.4	85.1	86	85	67-127	1	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	81.6	83.7	82	84	55-118	3	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	90.8	91.1	91	91	60-117	0	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	90.7	88.4	91	88	68-118	3	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	90.9	88.7	91	89	62-126	2	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	85.5	86.5	85	87	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	76.3	81.6	76	82	46-130	7	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	89.1	88.0	89	88	69-124	1	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	89.0	89.5	89	90	66-116	1	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	87.8	86.1	88	86	67-117	2	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	89.6	91.9	90	92	61-128	3	30	
1,4-Dichlorobenzene	ug/L	5.0 U	100	100	89.5	90.9	90	91	68-116	1	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	79.9	91.3	78	89	63-175	13	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.: 30310157

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701206 1701207

Parameter	Units	30310157007 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	50.0 U	100	100	79.4	92.0	79	92	65-151	15	30	
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	84.9	96.8	85	97	66-149	13	30	
Acetone	ug/L	33.5J	100	100	106	121	72	87	10-175	14	30	
Acrylonitrile	ug/L	20.0 U	100	100	65.7	79.3	66	79	42-165	19	30	
Benzene	ug/L	228	100	100	340	334	112	106	67-119	2	30	
Bromochloromethane	ug/L	5.0 U	100	100	99.3	96.2	99	96	64-124	3	30	
Bromodichloromethane	ug/L	5.0 U	100	100	91.6	91.9	92	92	67-126	0	30	
Bromoform	ug/L	5.0 U	100	100	61.0	61.1	61	61	43-114	0	30	
Bromomethane	ug/L	3.5J	100	100	41.4	56.9	38	53	10-164	32	30	R1
Carbon disulfide	ug/L	5.0 U	100	100	89.5	101	90	101	37-135	12	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	89.6	84.0	90	84	60-137	7	30	
Chlorobenzene	ug/L	5.0 U	100	100	93.3	93.1	93	93	68-119	0	30	
Chloroethane	ug/L	5.0 U	100	100	97.3	85.5	97	86	54-169	13	30	
Chloroform	ug/L	5.0 U	100	100	92.3	91.6	92	92	69-113	1	30	
Chloromethane	ug/L	5.0 U	100	100	77.7	77.0	78	77	43-159	1	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	87.7	91.7	88	92	65-121	4	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	87.8	84.4	88	84	61-120	4	30	
Dibromochloromethane	ug/L	5.0 U	100	100	72.2	72.4	72	72	56-121	0	30	
Dibromomethane	ug/L	5.0 U	100	100	90.4	90.4	90	90	56-133	0	30	
Ethylbenzene	ug/L	11.5	100	100	105	104	93	93	69-127	1	30	
Iodomethane	ug/L	250 U	100	100	79.6J	133J	77	130	10-152		30	
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	85.6	102	86	102	70-130	17	30	
Methylene Chloride	ug/L	4.6J	100	100	86.6	87.0	82	82	49-144	0	30	
Naphthalene	ug/L	1850	100	100	1870	1980	18	133	60-136	6	30	ML
Styrene	ug/L	23.4	100	100	117	117	93	94	65-120	0	30	
Tetrachloroethene	ug/L	5.0 U	100	100	93.6	92.9	94	93	64-123	1	30	
Toluene	ug/L	81.9	100	100	184	182	103	100	70-130	1	30	
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	90.9	88.8	91	89	66-119	2	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	83.0	82.0	83	82	52-117	1	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	49.0	60.2	49	60	13-100	20	30	
Trichloroethene	ug/L	5.0 U	100	100	93.3	91.6	93	92	63-125	2	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	103	103	103	103	43-186	0	30	
Vinyl acetate	ug/L	50.0 U	100	100	80.3	81.9	80	82	35-150	2	30	
Vinyl chloride	ug/L	5.0 U	100	100	91.4	88.7	91	89	60-133	3	30	
Xylene (Total)	ug/L	187	300	300	472	467	95	93	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%.						99	96	80-120			
4-Bromofluorobenzene (S)	%.						99	99	78-122			
Dibromofluoromethane (S)	%.						100	100	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.: 30310157

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

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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Pace Analytical Services, LLC
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.: 30310157

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30310157001	**Trip Blank**	EPA 8260B	349935		
30310157002	**C061-PZM007**	EPA 8260B	349935		
30310157003	**C062-PZM007**	EPA 8260B	349935		
30310157004	**C063-PZM007**	EPA 8260B	349935		
30310157005	**C064-PZM006**	EPA 8260B	349935		
30310157006	**C065-PZM005**	EPA 8260B	349935		
30310157007	**C066-PZM005**	EPA 8260B	349937		
30310157008	**C067-PZM006**	EPA 8260B	349935		
30310157009	**C068-PZM005**	EPA 8260B	349935		
30310157010	**C069-PZM005**	EPA 8260B	349935		
30310157011	**C070-PZM005**	EPA 8260B	349935		
30310157012	**C071-PZM006**	EPA 8260B	349935		
30310157013	**C072-PZM005**	EPA 8260B	349935		

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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:	180227M

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#: 30310157

30310157

#	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	WT	–		6-21-19				2				2						X		
2	C061-PZM007		G				0935		3				3						X		
3	C062-PZM007						1020		3				3						X		
4	C063-PZM007						1059		3				3						X		
5	C064-PZM006						1129		3				3						X		
6	C065-PZM005						1157		3				3						X		
7	C066-PZM005						1225		3				3						X		
8	C067-PZM006						1259		3				3						X		
9	C068-PZM005						1329		3				3						X		
10	C069-PZM005						1355		3				3						X		
11	C070-PZM005						1425		3				3						X		
12	C071-PZM006						1400		3				3						X		

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] ARM	6-21-19	1450	[signature] Pace	6/21/19	1501				
	[signature] Pace	6/21/19	1925	RDS PACE	6-21-19	1930				
	RDS PACE	6-21-19	2315	[signature] PACE	06/21/19	2315	3.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Van Ness

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 06/21/19

*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.

30300157

JVB 06/22/19

Page: 2 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:	180227M

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	CO72-PZM005	WT	G			6-21-19	1335		3				3						X		
2																					
3																					
4																					
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] ARM	6-21-19	1450	[signature] Pace	6/21/19	1501				
	[signature] Pace	6/21/19	1925	RDS PACE	6-21-19	1930		Y		
	RDS PACE	6-21-19	2315	[signature] DAVE	06/21/19	2315	3.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Van Ness

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 06/21/19

*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 # 30301157 DW 6/22/19

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label DW GP

LIMS Login

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 3.1 °C Correction Factor: 0 °C Final Temp: 3.1 °C

Temp should be above freezing to 6°C

pH paper Lot# NA

Date and initials of person examining contents: 06/22/19 JL3

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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.
All containers meet method preservation requirements.	✓			Initial when completed DW3 Date/time of preservation: Lot # of added preservative:
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad 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 08, 2019

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: Coke Point Landfill
Pace Project No.: 30326647

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2019. 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.

Trip Blank was received, but it was a solid trip blank, not a water trip blank

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 Point Landfill
Pace Project No.: 30326647

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
Florida: Cert E871149 SEKS WET
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: Coke Point Landfill
Pace Project No.: 30326647

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30326647001	**CO28-PZM010**	Water	09/26/19 09:15	09/26/19 23:45
30326647002	**CO28-PZM048**	Water	09/26/19 09:45	09/26/19 23:45
30326647003	**CO0-MWS**	Water	09/26/19 10:14	09/26/19 23:45
30326647004	**CO0-MWI**	Water	09/26/19 10:55	09/26/19 23:45
30326647005	**CON-MWS**	Water	09/26/19 11:29	09/26/19 23:45
30326647006	**CON-MWI**	Water	09/26/19 12:13	09/26/19 23:45
30326647007	**CO36-PZM008**	Water	09/26/19 12:58	09/26/19 23:45
30326647008	**CO36-PZM043**	Water	09/26/19 13:29	09/26/19 23:45
30326647009	**trip blank**	Water	09/26/19 08:00	09/26/19 23:45

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SAMPLE ANALYTE COUNT

Project: Coke Point Landfill
Pace Project No.: 30326647

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30326647001	**CO28-PZM010**	EPA 8260B	LEL	53	PASI-PA
30326647002	**CO28-PZM048**	EPA 8260B	LEL	53	PASI-PA
30326647003	**CO0-MWS**	EPA 8260B	LEL	53	PASI-PA
30326647004	**CO0-MWI**	EPA 8260B	LEL	53	PASI-PA
30326647005	**CON-MWS**	EPA 8260B	LEL	53	PASI-PA
30326647006	**CON-MWI**	EPA 8260B	LEL	53	PASI-PA
30326647007	**CO36-PZM008**	EPA 8260B	LEL	53	PASI-PA
30326647008	**CO36-PZM043**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: Coke Point Landfill
Pace Project No.: 30326647

Sample: CO28-PZM010 **Lab ID: 30326647001** Collected: 09/26/19 09:15 Received: 09/26/19 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	2.7	5		10/08/19 00:45	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 00:45	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 00:45	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 00:45	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 00:45	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 00:45	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 00:45	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/08/19 00:45	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 00:45	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 00:45	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 00:45	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 00:45	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 00:45	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/08/19 00:45	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/08/19 00:45	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/08/19 00:45	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/08/19 00:45	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/08/19 00:45	107-13-1	
Benzene	**147000**	ug/L	1000	338	1000		10/08/19 01:34	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 00:45	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 00:45	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/08/19 00:45	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/08/19 00:45	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 00:45	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 00:45	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/08/19 00:45	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 00:45	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 00:45	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 00:45	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/08/19 00:45	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 00:45	74-95-3	
Ethylbenzene	**319**	ug/L	5.0	2.0	5		10/08/19 00:45	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/08/19 00:45	74-88-4	CH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 00:45	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 00:45	75-09-2	
Naphthalene	**5550**	ug/L	400	164	200		10/08/19 01:10	91-20-3	
Styrene	**124**	ug/L	5.0	1.6	5		10/08/19 00:45	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 00:45	127-18-4	
Toluene	**15400**	ug/L	200	63.4	200		10/08/19 01:10	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/08/19 00:45	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/08/19 00:45	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 00:45	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 00:45	75-01-4	
Xylene (Total)	**5100**	ug/L	15.0	6.8	5		10/08/19 00:45	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 00:45	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 00:45	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Coke Point Landfill
Pace Project No.: 30326647

Sample: CO28-PZM010 **Lab ID: 30326647001** Collected: 09/26/19 09:15 Received: 09/26/19 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	1.4	5		10/08/19 00:45	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 00:45	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/08/19 00:45	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		10/08/19 00:45	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	80-120		5		10/08/19 00:45	17060-07-0	
Toluene-d8 (S)	101	%.	80-120		5		10/08/19 00:45	2037-26-5	
Dibromofluoromethane (S)	86	%.	80-120		5		10/08/19 00:45	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Coke Point Landfill
Pace Project No.: 30326647

Sample: CO28-PZM048 **Lab ID: 30326647002** Collected: 09/26/19 09:45 Received: 09/26/19 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	2.7	5		10/07/19 18:07	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 18:07	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 18:07	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 18:07	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 18:07	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 18:07	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 18:07	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/07/19 18:07	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 18:07	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 18:07	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 18:07	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 18:07	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 18:07	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/07/19 18:07	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/07/19 18:07	591-78-6	ML
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/07/19 18:07	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/07/19 18:07	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/07/19 18:07	107-13-1	
Benzene	**765**	ug/L	5.0	1.7	5		10/07/19 18:07	71-43-2	ML
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 18:07	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 18:07	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/07/19 18:07	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/07/19 18:07	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 18:07	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 18:07	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/07/19 18:07	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 18:07	75-00-3	ML
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 18:07	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 18:07	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/07/19 18:07	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 18:07	74-95-3	
Ethylbenzene	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 18:07	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/07/19 18:07	74-88-4	CH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 18:07	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 18:07	75-09-2	
Naphthalene	**42.3**	ug/L	10.0	4.1	5		10/07/19 18:07	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 18:07	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 18:07	127-18-4	
Toluene	**101**	ug/L	5.0	1.6	5		10/07/19 18:07	108-88-3	ML
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/07/19 18:07	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/07/19 18:07	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 18:07	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 18:07	75-01-4	
Xylene (Total)	**45.8**	ug/L	15.0	6.8	5		10/07/19 18:07	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 18:07	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 18:07	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Coke Point Landfill
Pace Project No.: 30326647

Sample: CO28-PZM048 **Lab ID: 30326647002** Collected: 09/26/19 09:45 Received: 09/26/19 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	1.4	5		10/07/19 18:07	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 18:07	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/07/19 18:07	110-57-6	R1
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		10/07/19 18:07	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		5		10/07/19 18:07	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		5		10/07/19 18:07	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		10/07/19 18:07	1868-53-7	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Coke Point Landfill
Pace Project No.: 30326647

Sample: CO0-MWS **Lab ID: 30326647003** Collected: 09/26/19 10:14 Received: 09/26/19 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	2.7	5		10/07/19 18:56	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 18:56	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 18:56	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 18:56	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 18:56	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 18:56	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 18:56	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/07/19 18:56	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 18:56	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 18:56	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 18:56	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 18:56	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 18:56	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/07/19 18:56	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/07/19 18:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/07/19 18:56	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/07/19 18:56	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/07/19 18:56	107-13-1	
Benzene	**21900**	ug/L	100	33.8	100		10/07/19 19:21	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 18:56	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 18:56	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/07/19 18:56	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/07/19 18:56	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 18:56	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 18:56	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/07/19 18:56	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 18:56	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 18:56	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 18:56	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/07/19 18:56	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 18:56	74-95-3	
Ethylbenzene	**92.5**	ug/L	5.0	2.0	5		10/07/19 18:56	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/07/19 18:56	74-88-4	CH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 18:56	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 18:56	75-09-2	
Naphthalene	**1810**	ug/L	10.0	4.1	5		10/07/19 18:56	91-20-3	
Styrene	**22.1**	ug/L	5.0	1.6	5		10/07/19 18:56	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 18:56	127-18-4	
Toluene	**4260**	ug/L	100	31.7	100		10/07/19 19:21	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/07/19 18:56	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/07/19 18:56	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 18:56	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 18:56	75-01-4	
Xylene (Total)	**1440**	ug/L	15.0	6.8	5		10/07/19 18:56	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 18:56	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 18:56	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Coke Point Landfill
Pace Project No.: 30326647

Sample: CO0-MWS **Lab ID: 30326647003** Collected: 09/26/19 10:14 Received: 09/26/19 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	1.4	5		10/07/19 18:56	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 18:56	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/07/19 18:56	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	78-122		5		10/07/19 18:56	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		5		10/07/19 18:56	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		10/07/19 18:56	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		5		10/07/19 18:56	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Point Landfill
Pace Project No.: 30326647

Sample: CO0-MWI **Lab ID: 30326647004** Collected: 09/26/19 10:55 Received: 09/26/19 23:45 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	2.7	5		10/07/19 23:55	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 23:55	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 23:55	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 23:55	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 23:55	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 23:55	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 23:55	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/07/19 23:55	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 23:55	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 23:55	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 23:55	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 23:55	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 23:55	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/07/19 23:55	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/07/19 23:55	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/07/19 23:55	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/07/19 23:55	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/07/19 23:55	107-13-1	
Benzene	**54300**	ug/L	1000	338	1000		10/08/19 00:20	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 23:55	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 23:55	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/07/19 23:55	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/07/19 23:55	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 23:55	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 23:55	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/07/19 23:55	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 23:55	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 23:55	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 23:55	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/07/19 23:55	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 23:55	74-95-3	
Ethylbenzene	**211**	ug/L	5.0	2.0	5		10/07/19 23:55	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/07/19 23:55	74-88-4	CH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 23:55	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 23:55	75-09-2	
Naphthalene	**16500**	ug/L	2000	819	1000		10/08/19 00:20	91-20-3	
Styrene	**63.9**	ug/L	5.0	1.6	5		10/07/19 23:55	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 23:55	127-18-4	
Toluene	**13600**	ug/L	1000	317	1000		10/08/19 00:20	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/07/19 23:55	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/07/19 23:55	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 23:55	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 23:55	75-01-4	
Xylene (Total)	**3280**	ug/L	15.0	6.8	5		10/07/19 23:55	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 23:55	156-59-2	

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ANALYTICAL RESULTS

Project: Coke Point Landfill
Pace Project No.: 30326647

Sample: CO0-MWI **Lab ID: 30326647004** Collected: 09/26/19 10:55 Received: 09/26/19 23:45 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	1.4	5		10/07/19 23:55	10061-01-5	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 23:55	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 23:55	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/07/19 23:55	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%.	78-122		5		10/07/19 23:55	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		5		10/07/19 23:55	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		10/07/19 23:55	2037-26-5	
Dibromofluoromethane (S)	89	%.	80-120		5		10/07/19 23:55	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Point Landfill
Pace Project No.: 30326647

Sample: CON-MWS **Lab ID: 30326647005** Collected: 09/26/19 11:29 Received: 09/26/19 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	2.7	5		10/07/19 22:16	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 22:16	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 22:16	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 22:16	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 22:16	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 22:16	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 22:16	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/07/19 22:16	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 22:16	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 22:16	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 22:16	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 22:16	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 22:16	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/07/19 22:16	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/07/19 22:16	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/07/19 22:16	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/07/19 22:16	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/07/19 22:16	107-13-1	
Benzene	**31900**	ug/L	500	169	500		10/07/19 22:41	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 22:16	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 22:16	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/07/19 22:16	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/07/19 22:16	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 22:16	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 22:16	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/07/19 22:16	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 22:16	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 22:16	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 22:16	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/07/19 22:16	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 22:16	74-95-3	
Ethylbenzene	**120**	ug/L	5.0	2.0	5		10/07/19 22:16	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/07/19 22:16	74-88-4	CH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 22:16	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 22:16	75-09-2	
Naphthalene	**1670**	ug/L	10.0	4.1	5		10/07/19 22:16	91-20-3	
Styrene	**33.6**	ug/L	5.0	1.6	5		10/07/19 22:16	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 22:16	127-18-4	
Toluene	**7720**	ug/L	500	158	500		10/07/19 22:41	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/07/19 22:16	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/07/19 22:16	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 22:16	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 22:16	75-01-4	
Xylene (Total)	**2060**	ug/L	15.0	6.8	5		10/07/19 22:16	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 22:16	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 22:16	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: Coke Point Landfill
Pace Project No.: 30326647

Sample: CON-MWS **Lab ID: 30326647005** Collected: 09/26/19 11:29 Received: 09/26/19 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	1.4	5		10/07/19 22:16	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 22:16	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/07/19 22:16	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		10/07/19 22:16	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		5		10/07/19 22:16	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		10/07/19 22:16	2037-26-5	
Dibromofluoromethane (S)	90	%.	80-120		5		10/07/19 22:16	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Point Landfill
Pace Project No.: 30326647

Sample: CON-MWI **Lab ID: 30326647006** Collected: 09/26/19 12:13 Received: 09/26/19 23:45 Matrix: Water

Comments: • One sample vial received broken

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	2.7	5		10/07/19 23:31	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 23:31	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 23:31	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 23:31	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 23:31	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 23:31	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 23:31	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/07/19 23:31	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 23:31	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 23:31	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 23:31	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 23:31	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 23:31	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/07/19 23:31	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/07/19 23:31	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/07/19 23:31	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/07/19 23:31	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/07/19 23:31	107-13-1	
Benzene	**507**	ug/L	5.0	1.7	5		10/07/19 23:31	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 23:31	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 23:31	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/07/19 23:31	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/07/19 23:31	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 23:31	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 23:31	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/07/19 23:31	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 23:31	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 23:31	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 23:31	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/07/19 23:31	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 23:31	74-95-3	
Ethylbenzene	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 23:31	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/07/19 23:31	74-88-4	CH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 23:31	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 23:31	75-09-2	
Naphthalene	**64.8**	ug/L	10.0	4.1	5		10/07/19 23:31	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 23:31	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 23:31	127-18-4	
Toluene	**120**	ug/L	5.0	1.6	5		10/07/19 23:31	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/07/19 23:31	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/07/19 23:31	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 23:31	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 23:31	75-01-4	
Xylene (Total)	**36.6**	ug/L	15.0	6.8	5		10/07/19 23:31	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 23:31	156-59-2	

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ANALYTICAL RESULTS

Project: Coke Point Landfill
Pace Project No.: 30326647

Sample: CON-MWI **Lab ID: 30326647006** Collected: 09/26/19 12:13 Received: 09/26/19 23:45 Matrix: Water

Comments: • One sample vial received broken

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	1.4	5		10/07/19 23:31	10061-01-5	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 23:31	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 23:31	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/07/19 23:31	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		5		10/07/19 23:31	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		5		10/07/19 23:31	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		5		10/07/19 23:31	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		10/07/19 23:31	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Point Landfill
Pace Project No.: 30326647

Sample: CO36-PZM008 **Lab ID: 30326647007** Collected: 09/26/19 12:58 Received: 09/26/19 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	2.7	5		10/07/19 19:46	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 19:46	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 19:46	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 19:46	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 19:46	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 19:46	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 19:46	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/07/19 19:46	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 19:46	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 19:46	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 19:46	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 19:46	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 19:46	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/07/19 19:46	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/07/19 19:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/07/19 19:46	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/07/19 19:46	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/07/19 19:46	107-13-1	
Benzene	**9710**	ug/L	200	67.6	200		10/07/19 20:11	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 19:46	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 19:46	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/07/19 19:46	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/07/19 19:46	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 19:46	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 19:46	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/07/19 19:46	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 19:46	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 19:46	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 19:46	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/07/19 19:46	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 19:46	74-95-3	
Ethylbenzene	**47.4**	ug/L	5.0	2.0	5		10/07/19 19:46	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/07/19 19:46	74-88-4	CH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 19:46	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 19:46	75-09-2	
Naphthalene	**462**	ug/L	10.0	4.1	5		10/07/19 19:46	91-20-3	
Styrene	**11.6**	ug/L	5.0	1.6	5		10/07/19 19:46	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 19:46	127-18-4	
Toluene	**2360**	ug/L	200	63.4	200		10/07/19 20:11	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/07/19 19:46	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/07/19 19:46	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 19:46	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 19:46	75-01-4	
Xylene (Total)	**802**	ug/L	15.0	6.8	5		10/07/19 19:46	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 19:46	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 19:46	10061-01-5	

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ANALYTICAL RESULTS

Project: Coke Point Landfill
Pace Project No.: 30326647

Sample: CO36-PZM008 **Lab ID: 30326647007** Collected: 09/26/19 12:58 Received: 09/26/19 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	1.4	5		10/07/19 19:46	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 19:46	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/07/19 19:46	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		10/07/19 19:46	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		5		10/07/19 19:46	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		10/07/19 19:46	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		5		10/07/19 19:46	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Point Landfill
Pace Project No.: 30326647

Sample: CO36-PZM043 **Lab ID: 30326647008** Collected: 09/26/19 13:29 Received: 09/26/19 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	2.7	5		10/07/19 20:36	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 20:36	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 20:36	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 20:36	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 20:36	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 20:36	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 20:36	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/07/19 20:36	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 20:36	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 20:36	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 20:36	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 20:36	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 20:36	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/07/19 20:36	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/07/19 20:36	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/07/19 20:36	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/07/19 20:36	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/07/19 20:36	107-13-1	
Benzene	**20200**	ug/L	200	67.6	200		10/07/19 21:01	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 20:36	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 20:36	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/07/19 20:36	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/07/19 20:36	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 20:36	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 20:36	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/07/19 20:36	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 20:36	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 20:36	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 20:36	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/07/19 20:36	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 20:36	74-95-3	
Ethylbenzene	**71.5**	ug/L	5.0	2.0	5		10/07/19 20:36	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/07/19 20:36	74-88-4	CH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 20:36	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 20:36	75-09-2	
Naphthalene	**792**	ug/L	10.0	4.1	5		10/07/19 20:36	91-20-3	
Styrene	**16.0**	ug/L	5.0	1.6	5		10/07/19 20:36	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 20:36	127-18-4	
Toluene	**3620**	ug/L	200	63.4	200		10/07/19 21:01	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/07/19 20:36	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/07/19 20:36	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 20:36	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 20:36	75-01-4	
Xylene (Total)	**1100**	ug/L	15.0	6.8	5		10/07/19 20:36	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 20:36	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 20:36	10061-01-5	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Coke Point Landfill
Pace Project No.: 30326647

Sample: CO36-PZM043 **Lab ID: 30326647008** Collected: 09/26/19 13:29 Received: 09/26/19 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	1.4	5		10/07/19 20:36	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 20:36	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/07/19 20:36	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		5		10/07/19 20:36	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	80-120		5		10/07/19 20:36	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		10/07/19 20:36	2037-26-5	
Dibromofluoromethane (S)	90	%.	80-120		5		10/07/19 20:36	1868-53-7	

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QUALITY CONTROL DATA

Project: Coke Point Landfill
Pace Project No.: 30326647

QC Batch: 364973 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30326647001, 30326647002, 30326647003, 30326647004, 30326647005, 30326647006, 30326647007, 30326647008

METHOD BLANK: 1770428 Matrix: Water
Associated Lab Samples: 30326647001, 30326647002, 30326647003, 30326647004, 30326647005, 30326647006, 30326647007, 30326647008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/07/19 16:27	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/07/19 16:27	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/07/19 16:27	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/07/19 16:27	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/07/19 16:27	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/07/19 16:27	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/07/19 16:27	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/07/19 16:27	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/07/19 16:27	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/07/19 16:27	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/07/19 16:27	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/07/19 16:27	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/07/19 16:27	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/07/19 16:27	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/07/19 16:27	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/07/19 16:27	
Acetone	ug/L	10.0 U	10.0	5.6	10/07/19 16:27	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/07/19 16:27	
Benzene	ug/L	1.0 U	1.0	0.34	10/07/19 16:27	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/07/19 16:27	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/07/19 16:27	
Bromoform	ug/L	1.0 U	1.0	0.56	10/07/19 16:27	
Bromomethane	ug/L	1.0 U	1.0	0.73	10/07/19 16:27	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/07/19 16:27	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/07/19 16:27	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/07/19 16:27	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/07/19 16:27	
Chloroform	ug/L	1.0 U	1.0	0.39	10/07/19 16:27	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/07/19 16:27	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/07/19 16:27	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/07/19 16:27	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/07/19 16:27	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/07/19 16:27	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/07/19 16:27	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/07/19 16:27	CH
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/07/19 16:27	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/07/19 16:27	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/07/19 16:27	
Styrene	ug/L	1.0 U	1.0	0.33	10/07/19 16:27	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/07/19 16:27	

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QUALITY CONTROL DATA

Project: Coke Point Landfill
Pace Project No.: 30326647

METHOD BLANK: 1770428 Matrix: Water

Associated Lab Samples: 30326647001, 30326647002, 30326647003, 30326647004, 30326647005, 30326647006, 30326647007, 30326647008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.32	10/07/19 16:27	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/07/19 16:27	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/07/19 16:27	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/07/19 16:27	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/07/19 16:27	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/07/19 16:27	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/07/19 16:27	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/07/19 16:27	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/07/19 16:27	
1,2-Dichloroethane-d4 (S)	%.	105	80-120		10/07/19 16:27	
4-Bromofluorobenzene (S)	%.	99	78-122		10/07/19 16:27	
Dibromofluoromethane (S)	%.	105	80-120		10/07/19 16:27	
Toluene-d8 (S)	%.	95	80-120		10/07/19 16:27	

LABORATORY CONTROL SAMPLE: 1770429

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	17.6	88	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.7	88	70-130	
1,1,2-Trichloroethane	ug/L	20	18.3	91	70-130	
1,1-Dichloroethane	ug/L	20	16.8	84	68-121	
1,1-Dichloroethene	ug/L	20	16.2	81	63-129	
1,2,3-Trichloropropane	ug/L	20	18.1	90	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.5	98	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	18.4	92	70-130	
1,2-Dichlorobenzene	ug/L	20	18.1	91	70-130	
1,2-Dichloroethane	ug/L	20	17.3	86	67-117	
1,2-Dichloropropane	ug/L	20	17.9	89	69-121	
1,4-Dichlorobenzene	ug/L	20	18.8	94	70-130	
2-Butanone (MEK)	ug/L	20	23.4	117	59-128	
2-Hexanone	ug/L	20	18.5	93	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.9	99	63-126	
Acetone	ug/L	20	21.8	109	37-150	
Acrylonitrile	ug/L	20	22.0	110	62-128	
Benzene	ug/L	20	18.3	92	70-130	
Bromochloromethane	ug/L	20	20.9	104	59-137	
Bromodichloromethane	ug/L	20	19.1	96	70-130	
Bromoform	ug/L	20	18.5	93	65-130	
Bromomethane	ug/L	20	19.4	97	45-148	
Carbon disulfide	ug/L	20	18.4	92	55-123	
Carbon tetrachloride	ug/L	20	18.5	93	69-126	
Chlorobenzene	ug/L	20	18.5	92	70-130	

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(724)850-5600

QUALITY CONTROL DATA

Project: Coke Point Landfill
Pace Project No.: 30326647

LABORATORY CONTROL SAMPLE: 1770429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	18.2	91	68-146	
Chloroform	ug/L	20	17.8	89	69-116	
Chloromethane	ug/L	20	16.2	81	56-129	
cis-1,2-Dichloroethene	ug/L	20	17.7	88	66-118	
cis-1,3-Dichloropropene	ug/L	20	18.5	92	70-130	
Dibromochloromethane	ug/L	20	16.9	84	70-130	
Dibromomethane	ug/L	20	17.7	88	70-130	
Ethylbenzene	ug/L	20	18.5	92	70-130	
Iodomethane	ug/L	20	20.2J	101	10-175	CH
Methyl-tert-butyl ether	ug/L	20	19.3	97	70-130	
Methylene Chloride	ug/L	20	17.3	86	65-124	
Naphthalene	ug/L	20	19.3	96	69-135	
Styrene	ug/L	20	18.6	93	70-130	
Tetrachloroethene	ug/L	20	18.9	94	70-130	
Toluene	ug/L	20	18.3	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.7	84	64-123	
trans-1,3-Dichloropropene	ug/L	20	16.9	85	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	22.2	111	37-119	
Trichloroethene	ug/L	20	18.8	94	70-130	
Trichlorofluoromethane	ug/L	20	22.2	111	64-163	
Vinyl acetate	ug/L	20	12.5	62	45-129	
Vinyl chloride	ug/L	20	20.3	102	70-130	
Xylene (Total)	ug/L	60	56.2	94	70-130	
1,2-Dichloroethane-d4 (S)	%.			95	80-120	
4-Bromofluorobenzene (S)	%.			101	78-122	
Dibromofluoromethane (S)	%.			99	80-120	
Toluene-d8 (S)	%.			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770831 1770832

Parameter	Units	30326647002 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	5.0 U	100	100	88.9	72.1	89	72	52-123	21	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	88.9	74.4	89	74	67-127	18	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	86.0	72.6	86	73	55-118	17	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	89.3	75.5	89	75	60-117	17	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	87.3	73.6	87	74	68-118	17	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	81.6	70.1	82	70	62-126	15	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	86.3	76.5	86	77	56-129	12	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	79.1	65.2	79	65	46-130	19	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	93.3	76.4	93	76	69-124	20	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	82.2	71.8	82	72	66-116	13	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	86.6	73.6	87	74	67-117	16	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	92.6	77.2	93	77	61-128	18	30	

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QUALITY CONTROL DATA

Project: Coke Point Landfill
Pace Project No.: 30326647

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770831 1770832

Parameter	Units	30326647002 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	5.0 U	100	100	79.6	69.8	80	70	68-116	13	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	96.2	82.9	96	83	63-175	15	30	
2-Hexanone	ug/L	50.0 U	100	100	77.5	62.9	77	63	65-151	21	30	ML
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	90.1	73.4	90	73	66-149	20	30	
Acetone	ug/L	50.0 U	100	100	102	77.4	88	63	10-175	28	30	
Acrylonitrile	ug/L	20.0 U	100	100	95.4	74.9	95	75	42-165	24	30	
Benzene	ug/L	765	100	100	797	713	32	-52	67-119	11	30	ML
Bromochloromethane	ug/L	5.0 U	100	100	100	83.7	100	84	64-124	18	30	
Bromodichloromethane	ug/L	5.0 U	100	100	89.4	76.8	89	77	67-126	15	30	
Bromoform	ug/L	5.0 U	100	100	72.6	59.6	73	60	43-114	20	30	
Bromomethane	ug/L	5.0 U	100	100	54.3	52.5	52	50	10-164	4	30	CL
Carbon disulfide	ug/L	5.0 U	100	100	73.0	60.2	73	60	37-135	19	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	86.2	75.4	86	75	60-137	13	30	
Chlorobenzene	ug/L	5.0 U	100	100	86.3	73.6	86	74	68-119	16	30	
Chloroethane	ug/L	5.0 U	100	100	53.3	62.5	53	63	54-169	16	30	ML
Chloroform	ug/L	5.0 U	100	100	92.1	76.7	92	77	69-113	18	30	
Chloromethane	ug/L	5.0 U	100	100	70.7	59.9	71	60	43-159	17	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	86.5	73.3	86	73	65-121	16	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	86.5	74.5	86	75	61-120	15	30	
Dibromochloromethane	ug/L	5.0 U	100	100	76.4	62.5	76	63	56-121	20	30	
Dibromomethane	ug/L	5.0 U	100	100	89.2	76.0	89	76	56-133	16	30	
Ethylbenzene	ug/L	5.0 U	100	100	89.3	75.6	89	76	69-127	17	30	
Iodomethane	ug/L	250 U	100	100	25.5J	38.1J	25	38	10-152		30	
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	89.3	71.9	89	72	70-130	22	30	
Methylene Chloride	ug/L	5.0 U	100	100	89.6	76.6	90	77	49-144	16	30	
Naphthalene	ug/L	42.3	100	100	125	116	83	73	60-136	8	30	
Styrene	ug/L	5.0 U	100	100	85.5	69.5	85	69	65-120	21	30	
Tetrachloroethene	ug/L	5.0 U	100	100	79.1	68.9	79	69	64-123	14	30	
Toluene	ug/L	101	100	100	185	160	83	59	70-130	14	30	ML
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	83.7	68.4	84	68	66-119	20	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	78.0	64.8	78	65	52-117	19	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	80.7	59.3	81	59	13-100	31	30	R1
Trichloroethene	ug/L	5.0 U	100	100	90.9	77.1	91	77	63-125	16	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	95.4	82.8	95	83	43-186	14	30	
Vinyl acetate	ug/L	5.0 U	100	100	55.5	46.3	55	46	35-150	18	30	
Vinyl chloride	ug/L	5.0 U	100	100	94.4	79.0	94	79	60-133	18	30	
Xylene (Total)	ug/L	45.8	300	300	294	248	83	68	69-128	17	30	
1,2-Dichloroethane-d4 (S)	%.						99	97	80-120			
4-Bromofluorobenzene (S)	%.						100	101	78-122			
Dibromofluoromethane (S)	%.						99	98	80-120			
Toluene-d8 (S)	%.						97	95	80-120			

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QUALIFIERS

Project: Coke Point Landfill
Pace Project No.: 30326647

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

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.
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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1638 Roseytown Road - Suites 2,3,4
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Coke Point Landfill
Pace Project No.: 30326647

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30326647001	**CO28-PZM010**	EPA 8260B	364973		
30326647002	**CO28-PZM048**	EPA 8260B	364973		
30326647003	**CO0-MWS**	EPA 8260B	364973		
30326647004	**CO0-MWI**	EPA 8260B	364973		
30326647005	**CON-MWS**	EPA 8260B	364973		
30326647006	**CON-MWI**	EPA 8260B	364973		
30326647007	**CO36-PZM008**	EPA 8260B	364973		
30326647008	**CO36-PZM043**	EPA 8260B	364973		

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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: 190275M-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# : 30326647

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	Pace Project No./ Lab I.D.
C028-PZM010	WT	G			9/26	0915		3				X					Y	X		001
C028-PZM048	WT	G			9/26	0945		3				X						X		002
COO-MW5	WT	G			9/26	1014		3				X						X		003
COO-MW1	WT	G			9/26	1055		3				X						X		004
CON-MW5	WT	G			9/26	1129		3				X						X		005
CON-MW1	WT	G			9/26	1213		3				X						X		006
C036-PZM008	WT	G			9/26	1258		3				X						X		007
C036-PZM043	WT	G			9/26	1329		3				X						X		008
trip blank	WT				9/26	0800		1				X						X		009
								25												

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)
	Joshua Barna ARM	6/26/19	1530	CMB/PACE	9/26/19	1610				
	CMB/PACE	9/26/19	1900	RDS PACE	9/26-19	1915		Y		
	RDS PACE	9/26/19	2345	Marvin I Clary	9-26-19	2345	.8	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joshua Barna
SIGNATURE of SAMPLER: Joshua Barna
DATE Signed (MM/DD/YY): 09/26/19

*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

30326647

Pace Analytical

Client Name: EnviroAnalytics Group Project # _____

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Label MLC
LIMS Login MLC

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Thermometer Used 11 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp .8 °C Correction Factor: 0 °C Final Temp: .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: MLC 9/27/19
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 CON-MW1 does not have time on any of the labels	
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. One vial was broken sample CON-MW1	
Orthophosphate field filtered			✓	12.	
Hex Cr Aqueous sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16.	
All containers meet method preservation requirements.	✓			Initial when completed MLC	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):		✓		17.	
Trip Blank Present:	✓			18. This Trip Blank received was a Solid Trip Blank not a water Trip Blank	
Trip Blank Custody Seals Present		✓			
Rad 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 08, 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.: 30326838

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2019. 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.

This project follows the April 5, 2016 revision 3 Quality Assurance Project Plan for Sparrows Point Terminal Site, Sparrows Point, MD prepared for EnviroAnalytics Group and is not for PA DEP compliance reporting.

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.: 30326838

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
Florida: Cert E871149 SEKS WET
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.: 30326838

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30326838001	**COK-MWS**	Water	09/27/19 08:28	09/27/19 23:50
30326838002	**COK-MWI**	Water	09/27/19 09:11	09/27/19 23:50
30326838003	**CO38-PZM043**	Water	09/27/19 09:54	09/27/19 23:50
30326838004	**CO38-PZM006**	Water	09/27/19 10:31	09/27/19 23:50
30326838005	**COQ-MWI**	Water	09/27/19 11:22	09/27/19 23:50
30326838006	**COP-MWI**	Water	09/27/19 12:07	09/27/19 23:50
30326838007	**CO40-PZM008**	Water	09/27/19 13:20	09/27/19 23:50
30326838008	**CO42-PZM004**	Water	09/27/19 13:58	09/27/19 23:50
30326838009	**Trip Blank**	Water	09/27/19 00:01	09/27/19 23:50

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30326838

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30326838001	**COK-MWS**	EPA 8260B	LEL	53	PASI-PA
30326838002	**COK-MWI**	EPA 8260B	LEL	53	PASI-PA
30326838003	**CO38-PZM043**	EPA 8260B	LEL	53	PASI-PA
30326838004	**CO38-PZM006**	EPA 8260B	LEL	53	PASI-PA
30326838005	**COQ-MWI**	EPA 8260B	LEL	53	PASI-PA
30326838006	**COP-MWI**	EPA 8260B	LEL	53	PASI-PA
30326838007	**CO40-PZM008**	EPA 8260B	LEL	53	PASI-PA
30326838008	**CO42-PZM004**	EPA 8260B	LEL	53	PASI-PA
30326838009	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA

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PROJECT NARRATIVE

Project: COA IM GW Sampling
Pace Project No.: 30326838

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: October 08, 2019

General Information:
9 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.

QC Batch: 364704

B: Analyte was detected in the associated method blank.
- BLANK for HBN 364704 [MSV/4664 (Lab ID: 1769231)
  - Bromomethane
  - Trichloroethene

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: 364704

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30326162001

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
- MS (Lab ID: 1769524)
  - Bromomethane
- MSD (Lab ID: 1769525)
  - Bromomethane

R1: RPD value was outside control limits.
- MSD (Lab ID: 1769525)
  - Bromomethane

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PROJECT NARRATIVE

Project: COA IM GW Sampling
Pace Project No.: 30326838

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: October 08, 2019

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.: 30326838

Sample: COK-MWS **Lab ID: 30326838001** Collected: 09/27/19 08:28 Received: 09/27/19 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	28.0	5		10/04/19 19:32	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/04/19 19:32	107-13-1	
Benzene	**5950**	ug/L	200	67.6	200		10/04/19 19:56	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/04/19 19:32	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/04/19 19:32	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/04/19 19:32	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/04/19 19:32	74-83-9	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/04/19 19:32	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/04/19 19:32	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/04/19 19:32	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/04/19 19:32	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/04/19 19:32	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/04/19 19:32	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/04/19 19:32	74-87-3	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/04/19 19:32	96-12-8	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/04/19 19:32	124-48-1	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/04/19 19:32	106-93-4	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/04/19 19:32	74-95-3	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/04/19 19:32	95-50-1	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/04/19 19:32	106-46-7	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/04/19 19:32	110-57-6	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/04/19 19:32	75-34-3	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/04/19 19:32	107-06-2	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/04/19 19:32	75-35-4	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/04/19 19:32	156-59-2	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 19:32	156-60-5	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 19:32	78-87-5	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 19:32	10061-01-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/04/19 19:32	10061-02-6	
Ethylbenzene	**31.5**	ug/L	5.0	2.0	5		10/04/19 19:32	100-41-4	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/04/19 19:32	591-78-6	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/04/19 19:32	74-88-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/04/19 19:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/04/19 19:32	108-10-1	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/04/19 19:32	1634-04-4	
Naphthalene	**161**	ug/L	10.0	4.1	5		10/04/19 19:32	91-20-3	
Styrene	**3.4J**	ug/L	5.0	1.6	5		10/04/19 19:32	100-42-5	
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.7	5		10/04/19 19:32	630-20-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/04/19 19:32	79-34-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/04/19 19:32	127-18-4	
Toluene	**147**	ug/L	5.0	1.6	5		10/04/19 19:32	108-88-3	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/04/19 19:32	71-55-6	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/04/19 19:32	79-00-5	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/04/19 19:32	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/04/19 19:32	75-69-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/04/19 19:32	96-18-4	

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

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: COK-MWS **Lab ID: 30326838001** Collected: 09/27/19 08:28 Received: 09/27/19 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/04/19 19:32	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 19:32	75-01-4	
Xylene (Total)	**220**	ug/L	15.0	6.8	5		10/04/19 19:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	78-122		5		10/04/19 19:32	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		5		10/04/19 19:32	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		10/04/19 19:32	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		5		10/04/19 19:32	1868-53-7	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: COK-MWI **Lab ID: 30326838002** Collected: 09/27/19 09:11 Received: 09/27/19 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	28.0	5		10/04/19 17:53	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/04/19 17:53	107-13-1	
Benzene	**4900**	ug/L	50.0	16.9	50		10/04/19 18:18	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/04/19 17:53	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/04/19 17:53	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/04/19 17:53	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/04/19 17:53	74-83-9	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/04/19 17:53	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/04/19 17:53	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/04/19 17:53	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/04/19 17:53	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/04/19 17:53	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/04/19 17:53	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/04/19 17:53	74-87-3	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/04/19 17:53	96-12-8	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/04/19 17:53	124-48-1	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/04/19 17:53	106-93-4	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/04/19 17:53	74-95-3	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/04/19 17:53	95-50-1	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/04/19 17:53	106-46-7	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/04/19 17:53	110-57-6	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/04/19 17:53	75-34-3	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/04/19 17:53	107-06-2	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/04/19 17:53	75-35-4	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/04/19 17:53	156-59-2	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 17:53	156-60-5	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 17:53	78-87-5	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 17:53	10061-01-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/04/19 17:53	10061-02-6	
Ethylbenzene	**19.4**	ug/L	5.0	2.0	5		10/04/19 17:53	100-41-4	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/04/19 17:53	591-78-6	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/04/19 17:53	74-88-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/04/19 17:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/04/19 17:53	108-10-1	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/04/19 17:53	1634-04-4	
Naphthalene	**125**	ug/L	10.0	4.1	5		10/04/19 17:53	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	1.6	5		10/04/19 17:53	100-42-5	
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.7	5		10/04/19 17:53	630-20-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/04/19 17:53	79-34-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/04/19 17:53	127-18-4	
Toluene	**19.5**	ug/L	5.0	1.6	5		10/04/19 17:53	108-88-3	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/04/19 17:53	71-55-6	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/04/19 17:53	79-00-5	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/04/19 17:53	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/04/19 17:53	75-69-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/04/19 17:53	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: COK-MWI **Lab ID: 30326838002** Collected: 09/27/19 09:11 Received: 09/27/19 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/04/19 17:53	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 17:53	75-01-4	
Xylene (Total)	**125**	ug/L	15.0	6.8	5		10/04/19 17:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		10/04/19 17:53	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		5		10/04/19 17:53	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		10/04/19 17:53	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		5		10/04/19 17:53	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: CO38-PZM043 **Lab ID: 30326838003** Collected: 09/27/19 09:54 Received: 09/27/19 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	5.6	1		10/04/19 16:14	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/04/19 16:14	107-13-1	
Benzene	**19.2**	ug/L	1.0	0.34	1		10/04/19 16:14	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/04/19 16:14	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/04/19 16:14	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/04/19 16:14	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/04/19 16:14	74-83-9	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/04/19 16:14	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/04/19 16:14	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/04/19 16:14	56-23-5	
Chlorobenzene	**0.33J**	ug/L	1.0	0.26	1		10/04/19 16:14	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/04/19 16:14	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/04/19 16:14	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/04/19 16:14	74-87-3	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/04/19 16:14	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/04/19 16:14	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/04/19 16:14	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/04/19 16:14	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/04/19 16:14	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/04/19 16:14	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/04/19 16:14	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/04/19 16:14	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/04/19 16:14	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/04/19 16:14	75-35-4	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/04/19 16:14	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		10/04/19 16:14	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/04/19 16:14	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/04/19 16:14	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/04/19 16:14	10061-02-6	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/04/19 16:14	100-41-4	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/04/19 16:14	591-78-6	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/04/19 16:14	74-88-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/04/19 16:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/04/19 16:14	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/04/19 16:14	1634-04-4	
Naphthalene	**2.9**	ug/L	2.0	0.82	1		10/04/19 16:14	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/04/19 16:14	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.55	1		10/04/19 16:14	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/04/19 16:14	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/04/19 16:14	127-18-4	
Toluene	**1.1**	ug/L	1.0	0.32	1		10/04/19 16:14	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/04/19 16:14	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/04/19 16:14	79-00-5	
Trichloroethene	**0.34J**	ug/L	1.0	0.29	1		10/04/19 16:14	79-01-6	B
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/04/19 16:14	75-69-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/04/19 16:14	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: CO38-PZM043 **Lab ID: 30326838003** Collected: 09/27/19 09:54 Received: 09/27/19 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/04/19 16:14	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/04/19 16:14	75-01-4	
Xylene (Total)	**2.4J**	ug/L	3.0	1.4	1		10/04/19 16:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		10/04/19 16:14	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		1		10/04/19 16:14	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		10/04/19 16:14	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		1		10/04/19 16:14	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: CO38-PZM006 **Lab ID: 30326838004** Collected: 09/27/19 10:31 Received: 09/27/19 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	28.0	5		10/04/19 18:43	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/04/19 18:43	107-13-1	
Benzene	**1900**	ug/L	5.0	1.7	5		10/04/19 18:43	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/04/19 18:43	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/04/19 18:43	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/04/19 18:43	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/04/19 18:43	74-83-9	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/04/19 18:43	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/04/19 18:43	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/04/19 18:43	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/04/19 18:43	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/04/19 18:43	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/04/19 18:43	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/04/19 18:43	74-87-3	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/04/19 18:43	96-12-8	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/04/19 18:43	124-48-1	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/04/19 18:43	106-93-4	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/04/19 18:43	74-95-3	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/04/19 18:43	95-50-1	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/04/19 18:43	106-46-7	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/04/19 18:43	110-57-6	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/04/19 18:43	75-34-3	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/04/19 18:43	107-06-2	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/04/19 18:43	75-35-4	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/04/19 18:43	156-59-2	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 18:43	156-60-5	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 18:43	78-87-5	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 18:43	10061-01-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/04/19 18:43	10061-02-6	
Ethylbenzene	**34.4**	ug/L	5.0	2.0	5		10/04/19 18:43	100-41-4	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/04/19 18:43	591-78-6	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/04/19 18:43	74-88-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/04/19 18:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/04/19 18:43	108-10-1	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/04/19 18:43	1634-04-4	
Naphthalene	**651**	ug/L	10.0	4.1	5		10/04/19 18:43	91-20-3	
Styrene	**5.0**	ug/L	5.0	1.6	5		10/04/19 18:43	100-42-5	
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.7	5		10/04/19 18:43	630-20-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/04/19 18:43	79-34-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/04/19 18:43	127-18-4	
Toluene	**133**	ug/L	5.0	1.6	5		10/04/19 18:43	108-88-3	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/04/19 18:43	71-55-6	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/04/19 18:43	79-00-5	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/04/19 18:43	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/04/19 18:43	75-69-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/04/19 18:43	96-18-4	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: CO38-PZM006 **Lab ID: 30326838004** Collected: 09/27/19 10:31 Received: 09/27/19 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/04/19 18:43	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 18:43	75-01-4	
Xylene (Total)	**108**	ug/L	15.0	6.8	5		10/04/19 18:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		10/04/19 18:43	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		5		10/04/19 18:43	17060-07-0	
Toluene-d8 (S)	101	%.	80-120		5		10/04/19 18:43	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		5		10/04/19 18:43	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: COQ-MWI **Lab ID: 30326838005** Collected: 09/27/19 11:22 Received: 09/27/19 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	28.0	5		10/04/19 20:21	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/04/19 20:21	107-13-1	
Benzene	**146000**	ug/L	500	169	500		10/04/19 20:46	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/04/19 20:21	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/04/19 20:21	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/04/19 20:21	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/04/19 20:21	74-83-9	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/04/19 20:21	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/04/19 20:21	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/04/19 20:21	56-23-5	
Chlorobenzene	**2.2J**	ug/L	5.0	1.3	5		10/04/19 20:21	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/04/19 20:21	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/04/19 20:21	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/04/19 20:21	74-87-3	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/04/19 20:21	96-12-8	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/04/19 20:21	124-48-1	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/04/19 20:21	106-93-4	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/04/19 20:21	74-95-3	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/04/19 20:21	95-50-1	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/04/19 20:21	106-46-7	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/04/19 20:21	110-57-6	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/04/19 20:21	75-34-3	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/04/19 20:21	107-06-2	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/04/19 20:21	75-35-4	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/04/19 20:21	156-59-2	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 20:21	156-60-5	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 20:21	78-87-5	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 20:21	10061-01-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/04/19 20:21	10061-02-6	
Ethylbenzene	**743**	ug/L	5.0	2.0	5		10/04/19 20:21	100-41-4	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/04/19 20:21	591-78-6	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/04/19 20:21	74-88-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/04/19 20:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/04/19 20:21	108-10-1	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/04/19 20:21	1634-04-4	
Naphthalene	**757**	ug/L	10.0	4.1	5		10/04/19 20:21	91-20-3	
Styrene	**285**	ug/L	5.0	1.6	5		10/04/19 20:21	100-42-5	
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.7	5		10/04/19 20:21	630-20-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/04/19 20:21	79-34-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/04/19 20:21	127-18-4	
Toluene	**51200**	ug/L	500	158	500		10/04/19 20:46	108-88-3	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/04/19 20:21	71-55-6	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/04/19 20:21	79-00-5	
Trichloroethene	**4.7J**	ug/L	5.0	1.5	5		10/04/19 20:21	79-01-6	B
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/04/19 20:21	75-69-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/04/19 20:21	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: COQ-MWI **Lab ID: 30326838005** Collected: 09/27/19 11:22 Received: 09/27/19 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/04/19 20:21	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 20:21	75-01-4	
Xylene (Total)	**16700**	ug/L	1500	675	500		10/04/19 20:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		5		10/04/19 20:21	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		5		10/04/19 20:21	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		10/04/19 20:21	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		5		10/04/19 20:21	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: COP-MWI **Lab ID: 30326838006** Collected: 09/27/19 12:07 Received: 09/27/19 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**40.6J**	ug/L	50.0	28.0	5		10/04/19 21:10	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/04/19 21:10	107-13-1	
Benzene	**318000**	ug/L	1000	338	1000		10/04/19 21:35	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/04/19 21:10	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/04/19 21:10	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/04/19 21:10	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/04/19 21:10	74-83-9	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/04/19 21:10	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/04/19 21:10	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/04/19 21:10	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/04/19 21:10	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/04/19 21:10	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/04/19 21:10	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/04/19 21:10	74-87-3	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/04/19 21:10	96-12-8	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/04/19 21:10	124-48-1	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/04/19 21:10	106-93-4	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/04/19 21:10	74-95-3	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/04/19 21:10	95-50-1	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/04/19 21:10	106-46-7	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/04/19 21:10	110-57-6	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/04/19 21:10	75-34-3	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/04/19 21:10	107-06-2	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/04/19 21:10	75-35-4	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/04/19 21:10	156-59-2	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 21:10	156-60-5	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 21:10	78-87-5	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 21:10	10061-01-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/04/19 21:10	10061-02-6	
Ethylbenzene	**974**	ug/L	5.0	2.0	5		10/04/19 21:10	100-41-4	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/04/19 21:10	591-78-6	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/04/19 21:10	74-88-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/04/19 21:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/04/19 21:10	108-10-1	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/04/19 21:10	1634-04-4	
Naphthalene	**295**	ug/L	10.0	4.1	5		10/04/19 21:10	91-20-3	
Styrene	**128**	ug/L	5.0	1.6	5		10/04/19 21:10	100-42-5	
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.7	5		10/04/19 21:10	630-20-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/04/19 21:10	79-34-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/04/19 21:10	127-18-4	
Toluene	**59300**	ug/L	1000	317	1000		10/04/19 21:35	108-88-3	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/04/19 21:10	71-55-6	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/04/19 21:10	79-00-5	
Trichloroethene	**2.7J**	ug/L	5.0	1.5	5		10/04/19 21:10	79-01-6	B
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/04/19 21:10	75-69-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/04/19 21:10	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: COP-MWI **Lab ID: 30326838006** Collected: 09/27/19 12:07 Received: 09/27/19 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/04/19 21:10	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/04/19 21:10	75-01-4	
Xylene (Total)	**17800**	ug/L	3000	1350	1000		10/04/19 21:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		10/04/19 21:10	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	80-120		5		10/04/19 21:10	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		10/04/19 21:10	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		10/04/19 21:10	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: CO40-PZM008 **Lab ID: 30326838007** Collected: 09/27/19 13:20 Received: 09/27/19 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	5.6	1		10/04/19 16:39	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/04/19 16:39	107-13-1	
Benzene	**3900**	ug/L	20.0	6.8	20		10/07/19 17:54	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/04/19 16:39	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/04/19 16:39	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/04/19 16:39	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/04/19 16:39	74-83-9	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/04/19 16:39	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/04/19 16:39	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/04/19 16:39	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/04/19 16:39	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/04/19 16:39	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/04/19 16:39	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/04/19 16:39	74-87-3	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/04/19 16:39	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/04/19 16:39	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/04/19 16:39	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/04/19 16:39	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/04/19 16:39	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/04/19 16:39	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/04/19 16:39	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/04/19 16:39	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/04/19 16:39	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/04/19 16:39	75-35-4	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/04/19 16:39	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		10/04/19 16:39	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/04/19 16:39	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/04/19 16:39	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/04/19 16:39	10061-02-6	
Ethylbenzene	**70.6**	ug/L	1.0	0.40	1		10/04/19 16:39	100-41-4	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/04/19 16:39	591-78-6	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/04/19 16:39	74-88-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/04/19 16:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/04/19 16:39	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/04/19 16:39	1634-04-4	
Naphthalene	**3340**	ug/L	40.0	16.4	20		10/07/19 17:54	91-20-3	
Styrene	**60.9**	ug/L	1.0	0.33	1		10/04/19 16:39	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.55	1		10/04/19 16:39	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/04/19 16:39	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/04/19 16:39	127-18-4	
Toluene	**1230**	ug/L	20.0	6.3	20		10/07/19 17:54	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/04/19 16:39	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/04/19 16:39	79-00-5	
Trichloroethene	**0.43J**	ug/L	1.0	0.29	1		10/04/19 16:39	79-01-6	B
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/04/19 16:39	75-69-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/04/19 16:39	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: CO40-PZM008 **Lab ID: 30326838007** Collected: 09/27/19 13:20 Received: 09/27/19 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/04/19 16:39	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/04/19 16:39	75-01-4	
Xylene (Total)	**540**	ug/L	3.0	1.4	1		10/04/19 16:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		10/04/19 16:39	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		10/04/19 16:39	17060-07-0	
Toluene-d8 (S)	101	%.	80-120		1		10/04/19 16:39	2037-26-5	
Dibromofluoromethane (S)	94	%.	80-120		1		10/04/19 16:39	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: CO42-PZM004 **Lab ID: 30326838008** Collected: 09/27/19 13:58 Received: 09/27/19 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**6.7J**	ug/L	10.0	5.6	1		10/04/19 17:04	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/04/19 17:04	107-13-1	
Benzene	**138**	ug/L	1.0	0.34	1		10/04/19 17:04	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/04/19 17:04	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/04/19 17:04	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/04/19 17:04	75-25-2	
Bromomethane	**0.78J**	ug/L	1.0	0.73	1		10/04/19 17:04	74-83-9	B
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/04/19 17:04	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/04/19 17:04	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/04/19 17:04	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/04/19 17:04	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/04/19 17:04	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/04/19 17:04	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/04/19 17:04	74-87-3	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/04/19 17:04	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/04/19 17:04	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/04/19 17:04	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/04/19 17:04	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/04/19 17:04	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/04/19 17:04	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/04/19 17:04	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/04/19 17:04	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/04/19 17:04	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/04/19 17:04	75-35-4	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/04/19 17:04	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		10/04/19 17:04	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/04/19 17:04	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/04/19 17:04	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/04/19 17:04	10061-02-6	
Ethylbenzene	**23.6**	ug/L	1.0	0.40	1		10/04/19 17:04	100-41-4	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/04/19 17:04	591-78-6	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/04/19 17:04	74-88-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/04/19 17:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/04/19 17:04	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/04/19 17:04	1634-04-4	
Naphthalene	**168**	ug/L	2.0	0.82	1		10/04/19 17:04	91-20-3	
Styrene	**24.3**	ug/L	1.0	0.33	1		10/04/19 17:04	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.55	1		10/04/19 17:04	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/04/19 17:04	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/04/19 17:04	127-18-4	
Toluene	**231**	ug/L	1.0	0.32	1		10/04/19 17:04	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/04/19 17:04	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/04/19 17:04	79-00-5	
Trichloroethene	**0.30J**	ug/L	1.0	0.29	1		10/04/19 17:04	79-01-6	B
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/04/19 17:04	75-69-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/04/19 17:04	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: CO42-PZM004 **Lab ID: 30326838008** Collected: 09/27/19 13:58 Received: 09/27/19 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/04/19 17:04	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/04/19 17:04	75-01-4	
Xylene (Total)	**318**	ug/L	3.0	1.4	1		10/04/19 17:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		10/04/19 17:04	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		1		10/04/19 17:04	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		1		10/04/19 17:04	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		1		10/04/19 17:04	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: Trip Blank **Lab ID: 30326838009** Collected: 09/27/19 00:01 Received: 09/27/19 23:50 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								
Acetone	ND	ug/L	5.0	5.6	1		10/04/19 13:45	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/04/19 13:45	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		10/04/19 13:45	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/04/19 13:45	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/04/19 13:45	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/04/19 13:45	75-25-2	
Bromomethane	**0.79J**	ug/L	1.0	0.73	1		10/04/19 13:45	74-83-9	B
2-Butanone (MEK)	ND	ug/L	5.0	1.5	1		10/04/19 13:45	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/04/19 13:45	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/04/19 13:45	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/04/19 13:45	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/04/19 13:45	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/04/19 13:45	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/04/19 13:45	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.55	1		10/04/19 13:45	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/04/19 13:45	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/04/19 13:45	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/04/19 13:45	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/04/19 13:45	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/04/19 13:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.58	1		10/04/19 13:45	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/04/19 13:45	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/04/19 13:45	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/04/19 13:45	75-35-4	
cis-1,2-Dichloroethene	**0.41J**	ug/L	1.0	0.38	1		10/04/19 13:45	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		10/04/19 13:45	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/04/19 13:45	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/04/19 13:45	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/04/19 13:45	10061-02-6	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/04/19 13:45	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.58	1		10/04/19 13:45	591-78-6	
Iodomethane	ND	ug/L	1.0	0.52	1		10/04/19 13:45	74-88-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/04/19 13:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.42	1		10/04/19 13:45	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/04/19 13:45	1634-04-4	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		10/04/19 13:45	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/04/19 13:45	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.55	1		10/04/19 13:45	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/04/19 13:45	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/04/19 13:45	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		10/04/19 13:45	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/04/19 13:45	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/04/19 13:45	79-00-5	
Trichloroethene	**0.46J**	ug/L	1.0	0.29	1		10/04/19 13:45	79-01-6	B
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/04/19 13:45	75-69-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30326838

Sample: Trip Blank **Lab ID: 30326838009** Collected: 09/27/19 00:01 Received: 09/27/19 23:50 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								
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/04/19 13:45	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.57	1		10/04/19 13:45	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/04/19 13:45	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.4	1		10/04/19 13:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		10/04/19 13:45	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		1		10/04/19 13:45	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		10/04/19 13:45	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		1		10/04/19 13:45	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30326838

QC Batch: 364704 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30326838001, 30326838002, 30326838003, 30326838004, 30326838005, 30326838006, 30326838007, 30326838008, 30326838009

METHOD BLANK: 1769231 Matrix: Water
Associated Lab Samples: 30326838001, 30326838002, 30326838003, 30326838004, 30326838005, 30326838006, 30326838007, 30326838008, 30326838009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/04/19 13:19	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/04/19 13:19	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/04/19 13:19	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/04/19 13:19	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/04/19 13:19	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/04/19 13:19	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/04/19 13:19	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/04/19 13:19	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/04/19 13:19	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/04/19 13:19	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/04/19 13:19	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/04/19 13:19	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/04/19 13:19	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/04/19 13:19	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/04/19 13:19	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/04/19 13:19	
Acetone	ug/L	10.0 U	10.0	5.6	10/04/19 13:19	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/04/19 13:19	
Benzene	ug/L	1.0 U	1.0	0.34	10/04/19 13:19	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/04/19 13:19	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/04/19 13:19	
Bromoform	ug/L	1.0 U	1.0	0.56	10/04/19 13:19	
Bromomethane	ug/L	0.87J	1.0	0.73	10/04/19 13:19	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/04/19 13:19	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/04/19 13:19	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/04/19 13:19	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/04/19 13:19	
Chloroform	ug/L	1.0 U	1.0	0.39	10/04/19 13:19	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/04/19 13:19	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/04/19 13:19	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/04/19 13:19	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/04/19 13:19	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/04/19 13:19	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/04/19 13:19	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/04/19 13:19	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/04/19 13:19	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/04/19 13:19	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/04/19 13:19	
Styrene	ug/L	1.0 U	1.0	0.33	10/04/19 13:19	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/04/19 13:19	

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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.: 30326838

METHOD BLANK: 1769231 Matrix: Water

Associated Lab Samples: 30326838001, 30326838002, 30326838003, 30326838004, 30326838005, 30326838006, 30326838007, 30326838008, 30326838009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.32	10/04/19 13:19	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/04/19 13:19	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/04/19 13:19	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/04/19 13:19	
Trichloroethene	ug/L	0.49J	1.0	0.29	10/04/19 13:19	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/04/19 13:19	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/04/19 13:19	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/04/19 13:19	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/04/19 13:19	
1,2-Dichloroethane-d4 (S)	%.	101	80-120		10/04/19 13:19	
4-Bromofluorobenzene (S)	%.	100	78-122		10/04/19 13:19	
Dibromofluoromethane (S)	%.	100	80-120		10/04/19 13:19	
Toluene-d8 (S)	%.	96	80-120		10/04/19 13:19	

LABORATORY CONTROL SAMPLE: 1769232

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	17.9	89	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	70-130	
1,1,2-Trichloroethane	ug/L	20	19.9	99	70-130	
1,1-Dichloroethane	ug/L	20	17.6	88	68-121	
1,1-Dichloroethene	ug/L	20	17.0	85	63-129	
1,2,3-Trichloropropane	ug/L	20	21.3	106	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.5	92	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.5	103	70-130	
1,2-Dichlorobenzene	ug/L	20	19.7	98	70-130	
1,2-Dichloroethane	ug/L	20	18.7	94	67-117	
1,2-Dichloropropane	ug/L	20	19.6	98	69-121	
1,4-Dichlorobenzene	ug/L	20	20.5	102	70-130	
2-Butanone (MEK)	ug/L	20	17.2	86	59-128	
2-Hexanone	ug/L	20	20.2	101	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.7	104	63-126	
Acetone	ug/L	20	21.1	106	37-150	
Acrylonitrile	ug/L	20	20.8	104	62-128	
Benzene	ug/L	20	18.9	95	70-130	
Bromochloromethane	ug/L	20	21.3	107	59-137	
Bromodichloromethane	ug/L	20	19.8	99	70-130	
Bromoform	ug/L	20	16.9	85	65-130	
Bromomethane	ug/L	20	17.1	85	45-148	
Carbon disulfide	ug/L	20	18.2	91	55-123	
Carbon tetrachloride	ug/L	20	18.7	93	69-126	
Chlorobenzene	ug/L	20	20.0	100	70-130	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30326838

LABORATORY CONTROL SAMPLE: 1769232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	22.6	113	68-146	
Chloroform	ug/L	20	19.1	96	69-116	
Chloromethane	ug/L	20	17.5	87	56-129	
cis-1,2-Dichloroethene	ug/L	20	18.6	93	66-118	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
Dibromochloromethane	ug/L	20	20.0	100	70-130	
Dibromomethane	ug/L	20	20.2	101	70-130	
Ethylbenzene	ug/L	20	19.7	98	70-130	
Iodomethane	ug/L	20	18.2J	91	10-175	
Methyl-tert-butyl ether	ug/L	20	19.2	96	70-130	
Methylene Chloride	ug/L	20	18.4	92	65-124	
Naphthalene	ug/L	20	20.8	104	69-135	
Styrene	ug/L	20	20.3	101	70-130	
Tetrachloroethene	ug/L	20	19.6	98	70-130	
Toluene	ug/L	20	18.9	95	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.8	84	64-123	
trans-1,3-Dichloropropene	ug/L	20	19.9	100	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	18.3	91	37-119	
Trichloroethene	ug/L	20	19.7	99	70-130	
Trichlorofluoromethane	ug/L	20	21.5	108	64-163	
Vinyl acetate	ug/L	20	13.0	65	45-129	
Vinyl chloride	ug/L	20	20.9	104	70-130	
Xylene (Total)	ug/L	60	59.0	98	70-130	
1,2-Dichloroethane-d4 (S)	%.			100	80-120	
4-Bromofluorobenzene (S)	%.			100	78-122	
Dibromofluoromethane (S)	%.			101	80-120	
Toluene-d8 (S)	%.			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1769524 1769525

Parameter	Units	30326162001 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	17.3	17.5	87	88	52-123	1	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	16.8	16.8	84	84	67-127	0	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.6	17.4	88	87	55-118	1	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.0	18.6	95	93	60-117	2	30	
1,1-Dichloroethane	ug/L	ND	20	20	17.9	17.3	89	86	68-118	3	30	
1,1-Dichloroethene	ug/L	ND	20	20	16.8	16.2	84	81	62-126	4	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.4	18.9	97	94	56-129	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	17.4	17.8	87	89	46-130	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.2	19.1	96	95	69-124	0	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	13.8	13.9	69	69	66-116	1	30	
1,2-Dichloroethane	ug/L	ND	20	20	17.6	17.0	88	85	67-117	3	30	
1,2-Dichloropropane	ug/L	ND	20	20	19.0	18.4	95	92	61-128	3	30	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30326838

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1769524 1769525

Parameter	Units	30326162001 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	ND	20	20	14.0	14.1	70	71	68-116	1	30	
2-Butanone (MEK)	ug/L	ND	20	20	26.1	26.2	131	131	63-175	0	30	
2-Hexanone	ug/L	ND	20	20	23.3	23.8	117	119	65-151	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	20.2	20.3	101	101	66-149	0	30	
Acetone	ug/L	20.7	20	20	53.2	52.0	163	157	10-175	2	30	
Acrylonitrile	ug/L	ND	20	20	23.8	23.6	119	118	42-165	1	30	
Benzene	ug/L	60.8	20	20	80.0	79.4	96	93	67-119	1	30	
Bromochloromethane	ug/L	ND	20	20	20.0	18.4	100	92	64-124	8	30	
Bromodichloromethane	ug/L	ND	20	20	17.9	17.1	90	86	67-126	5	30	
Bromoform	ug/L	ND	20	20	13.6	13.5	68	67	43-114	1	30	
Bromomethane	ug/L	ND	20	20	1.2	2.2	2	7	10-164	58	30	ML,R1
Carbon disulfide	ug/L	ND	20	20	13.9	14.3	69	72	37-135	4	30	
Carbon tetrachloride	ug/L	ND	20	20	16.0	15.7	80	79	60-137	2	30	
Chlorobenzene	ug/L	ND	20	20	17.1	17.0	86	85	68-119	1	30	
Chloroethane	ug/L	ND	20	20	20.4	20.5	102	103	54-169	0	30	
Chloroform	ug/L	ND	20	20	18.7	17.9	94	90	69-113	5	30	
Chloromethane	ug/L	2.8	20	20	17.2	17.5	72	73	43-159	1	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.0	17.6	90	88	65-121	2	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.1	16.6	85	83	61-120	3	30	
Dibromochloromethane	ug/L	ND	20	20	17.3	16.7	86	84	56-121	3	30	
Dibromomethane	ug/L	ND	20	20	17.7	17.4	88	87	56-133	2	30	
Ethylbenzene	ug/L	ND	20	20	16.1	15.9	77	76	69-127	1	30	
Iodomethane	ug/L	ND	20	20	2.1J	3.7J	11	19	10-152		30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.0	17.9	90	90	70-130	1	30	
Methylene Chloride	ug/L	ND	20	20	18.3	17.7	91	88	49-144	3	30	
Naphthalene	ug/L	ND	20	20	13.6	14.0	68	70	60-136	3	30	
Styrene	ug/L	ND	20	20	15.9	15.6	80	78	65-120	2	30	
Tetrachloroethene	ug/L	ND	20	20	15.0	14.5	75	73	64-123	3	30	
Toluene	ug/L	40.4	20	20	56.7	58.9	82	93	70-130	4	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	15.9	15.4	80	77	66-119	3	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.7	17.9	89	89	52-117	1	30	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	14.6	14.8	73	74	13-100	2	30	
Trichloroethene	ug/L	ND	20	20	17.5	17.1	86	83	63-125	2	30	
Trichlorofluoromethane	ug/L	ND	20	20	18.2	17.4	91	87	43-186	4	30	
Vinyl acetate	ug/L	ND	20	20	10.5	10.2	52	51	35-150	3	30	
Vinyl chloride	ug/L	ND	20	20	17.9	17.9	89	89	60-133	0	30	
Xylene (Total)	ug/L	7.4	60	60	52.3	52.1	75	74	69-128	0	30	
1,2-Dichloroethane-d4 (S)	%.						98	99	80-120			
4-Bromofluorobenzene (S)	%.						102	104	78-122			
Dibromofluoromethane (S)	%.						102	99	80-120			
Toluene-d8 (S)	%.						101	102	80-120			

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30326838

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 Sampling
Pace Project No.: 30326838

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30326838001	**COK-MWS**	EPA 8260B	364704		
30326838002	**COK-MWI**	EPA 8260B	364704		
30326838003	**CO38-PZM043**	EPA 8260B	364704		
30326838004	**CO38-PZM006**	EPA 8260B	364704		
30326838005	**COQ-MWI**	EPA 8260B	364704		
30326838006	**COP-MWI**	EPA 8260B	364704		
30326838007	**CO40-PZM008**	EPA 8260B	364704		
30326838008	**CO42-PZM004**	EPA 8260B	364704		
30326838009	**Trip Blank**	EPA 8260B	364704		

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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
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:	190276M-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# : 30326838

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	Analysis Test: VOC + NAPH by 8260	Residl	Pace Project No./ Lab I.D.
COK-MW5	WT	G			9/27	0828		3				X					Y	X		001
COK-MWI	WT	G			9/27	0911		3				X					Y	X		002
C038-PZM043	WT	G			9/27	0954		3				X					Y	X		003
C038-PZM006	WT	G			9/27	1031		3				X					Y	X		004
COQ-MWI	WT	G			9/27	1122		3				X					Y	X		005
COP-MWI	WT	G			9/27	1207		3				X					Y	X		006
C040-PZM008	WT	G			9/27	1320		3				X					Y	X		007
C042-PZM004	WT	G			9/27	1358		3				X					Y	X		008
Trip Blank	WT	G			9/27	0800		2									Y	X		009
								26												

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 Package	Josh Barna ARM	9/27/19	15:30	JMB / PACE	9/27/19	1540				
No Validation	JMB / PACE	9/27/19	1915	RDS / PACE	9-27-19	2000		Y		
	RDS / PACE	9/27/19	2350	PACE	09/27/19	2350	0.3	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joshua Barna

SIGNATURE of SAMPLER: Josh Barna

DATE Signed (MM/DD/YY): 09/27/19

*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 # 30326838

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other ____

Label DM DM
LIMS Login

Tracking #: NA

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Thermometer Used ID Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 0.3 °C Correction Factor: 0 °C Final Temp: 0.3 °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: 09/28/19 DM3
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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.
All containers meet method preservation requirements.	✓			Initial when completed DM3 / Date/time of preservation / Lot # of added preservative
Headspace in VOA Vials (>6mm):	✓			17. Both Trip Blanks
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad 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 09, 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.: 30327019

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on September 30, 2019. 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.: 30327019

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
Florida: Cert E871149 SEKS WET
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.: 30327019

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30327019001	**Trip Blank**	Water	09/30/19 00:01	09/30/19 22:00
30327019002	**CO104-PZM**	Water	09/30/19 08:50	09/30/19 22:00
30327019003	**COF-MWS**	Water	09/30/19 09:29	09/30/19 22:00
30327019004	**COG-MWS**	Water	09/30/19 10:09	09/30/19 22:00
30327019005	**CO30-PZM015**	Water	09/30/19 10:42	09/30/19 22:00
30327019006	**CO30-PZM060**	Water	09/30/19 11:16	09/30/19 22:00
30327019007	**COH-MWS**	Water	09/30/19 11:50	09/30/19 22:00
30327019008	**COI-MWS**	Water	09/30/19 12:29	09/30/19 22:00
30327019009	**COJ-MWS**	Water	09/30/19 13:17	09/30/19 22:00

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30327019

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30327019001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30327019002	**CO104-PZM**	EPA 8260B	LEL	53	PASI-PA
30327019003	**COF-MWS**	EPA 8260B	LEL	53	PASI-PA
30327019004	**COG-MWS**	EPA 8260B	LEL	53	PASI-PA
30327019005	**CO30-PZM015**	EPA 8260B	LEL	53	PASI-PA
30327019006	**CO30-PZM060**	EPA 8260B	LEL	53	PASI-PA
30327019007	**COH-MWS**	EPA 8260B	LEL	53	PASI-PA
30327019008	**COI-MWS**	EPA 8260B	LEL	53	PASI-PA
30327019009	**COJ-MWS**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: Trip Blank **Lab ID: 30327019001** Collected: 09/30/19 00:01 Received: 09/30/19 22:00 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	0.55	1		10/07/19 16:52	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 16:52	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/07/19 16:52	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 16:52	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 16:52	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 16:52	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/07/19 16:52	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.55	1		10/07/19 16:52	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 16:52	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 16:52	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 16:52	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/07/19 16:52	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 16:52	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1.5	1		10/07/19 16:52	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.58	1		10/07/19 16:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.42	1		10/07/19 16:52	108-10-1	
Acetone	ND	ug/L	5.0	5.6	1		10/07/19 16:52	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/07/19 16:52	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		10/07/19 16:52	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 16:52	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/07/19 16:52	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/07/19 16:52	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/07/19 16:52	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 16:52	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 16:52	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/07/19 16:52	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 16:52	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 16:52	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/07/19 16:52	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/07/19 16:52	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/07/19 16:52	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/07/19 16:52	100-41-4	
Iodomethane	ND	ug/L	1.0	0.52	1		10/07/19 16:52	74-88-4	CH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/07/19 16:52	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 16:52	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		10/07/19 16:52	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 16:52	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 16:52	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 16:52	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 16:52	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/07/19 16:52	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.57	1		10/07/19 16:52	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 16:52	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.4	1		10/07/19 16:52	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 16:52	156-59-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: Trip Blank **Lab ID: 30327019001** Collected: 09/30/19 00:01 Received: 09/30/19 22:00 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	0.29	1		10/07/19 16:52	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		10/07/19 16:52	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 16:52	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.58	1		10/07/19 16:52	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		10/07/19 16:52	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		1		10/07/19 16:52	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		10/07/19 16:52	2037-26-5	
Dibromofluoromethane (S)	106	%.	80-120		1		10/07/19 16:52	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: CO104-PZM **Lab ID: 30327019002** Collected: 09/30/19 08:50 Received: 09/30/19 22:00 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	0.55	1		10/08/19 14:50	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 14:50	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/08/19 14:50	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 14:50	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/08/19 14:50	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/08/19 14:50	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/08/19 14:50	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/08/19 14:50	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/08/19 14:50	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 14:50	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 14:50	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/08/19 14:50	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/08/19 14:50	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/08/19 14:50	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/08/19 14:50	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/08/19 14:50	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/08/19 14:50	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/08/19 14:50	107-13-1	
Benzene	**1.0**	ug/L	1.0	0.34	1		10/08/19 14:50	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/08/19 14:50	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/08/19 14:50	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/08/19 14:50	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/08/19 14:50	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/08/19 14:50	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/08/19 14:50	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/08/19 14:50	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/08/19 14:50	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/08/19 14:50	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/08/19 14:50	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/08/19 14:50	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/08/19 14:50	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/08/19 14:50	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/08/19 14:50	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/08/19 14:50	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/08/19 14:50	75-09-2	
Naphthalene	**1.0J**	ug/L	2.0	0.82	1		10/08/19 14:50	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 14:50	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/08/19 14:50	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		10/08/19 14:50	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 14:50	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/08/19 14:50	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/08/19 14:50	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 14:50	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		10/08/19 14:50	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 14:50	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 14:50	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: CO104-PZM **Lab ID: 30327019002** Collected: 09/30/19 08:50 Received: 09/30/19 22:00 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	0.28	1		10/08/19 14:50	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/08/19 14:50	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/08/19 14:50	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		1		10/08/19 14:50	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		1		10/08/19 14:50	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		10/08/19 14:50	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		1		10/08/19 14:50	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: COF-MWS **Lab ID: 30327019003** Collected: 09/30/19 09:29 Received: 09/30/19 22:00 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	2.7	5		10/07/19 18:32	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 18:32	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 18:32	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 18:32	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 18:32	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 18:32	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 18:32	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/07/19 18:32	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 18:32	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 18:32	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 18:32	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 18:32	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 18:32	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/07/19 18:32	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/07/19 18:32	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/07/19 18:32	108-10-1	
Acetone	**60.8**	ug/L	50.0	28.0	5		10/07/19 18:32	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/07/19 18:32	107-13-1	
Benzene	**841**	ug/L	5.0	1.7	5		10/07/19 18:32	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 18:32	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 18:32	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/07/19 18:32	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/07/19 18:32	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 18:32	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 18:32	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/07/19 18:32	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 18:32	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 18:32	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 18:32	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/07/19 18:32	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 18:32	74-95-3	
Ethylbenzene	**4.3J**	ug/L	5.0	2.0	5		10/07/19 18:32	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/07/19 18:32	74-88-4	CH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 18:32	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 18:32	75-09-2	
Naphthalene	**3170**	ug/L	40.0	16.4	20		10/08/19 13:55	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 18:32	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 18:32	127-18-4	
Toluene	**124**	ug/L	5.0	1.6	5		10/07/19 18:32	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/07/19 18:32	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/07/19 18:32	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 18:32	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 18:32	75-01-4	
Xylene (Total)	**59.6**	ug/L	15.0	6.8	5		10/07/19 18:32	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 18:32	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 18:32	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: COF-MWS **Lab ID: 30327019003** Collected: 09/30/19 09:29 Received: 09/30/19 22:00 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	1.4	5		10/07/19 18:32	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 18:32	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/07/19 18:32	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		10/07/19 18:32	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		5		10/07/19 18:32	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		5		10/07/19 18:32	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		10/07/19 18:32	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: COG-MWS **Lab ID: 30327019004** Collected: 09/30/19 10:09 Received: 09/30/19 22:00 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	2.7	5		10/07/19 21:26	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 21:26	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 21:26	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 21:26	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 21:26	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 21:26	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 21:26	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/07/19 21:26	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 21:26	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 21:26	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 21:26	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 21:26	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 21:26	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/07/19 21:26	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/07/19 21:26	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/07/19 21:26	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/07/19 21:26	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/07/19 21:26	107-13-1	
Benzene	**34200**	ug/L	500	169	500		10/07/19 21:51	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 21:26	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 21:26	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/07/19 21:26	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/07/19 21:26	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 21:26	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 21:26	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/07/19 21:26	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 21:26	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 21:26	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 21:26	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/07/19 21:26	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 21:26	74-95-3	
Ethylbenzene	**71.7**	ug/L	5.0	2.0	5		10/07/19 21:26	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/07/19 21:26	74-88-4	CH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 21:26	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 21:26	75-09-2	
Naphthalene	**12200**	ug/L	1000	410	500		10/07/19 21:51	91-20-3	
Styrene	**11.4**	ug/L	5.0	1.6	5		10/07/19 21:26	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 21:26	127-18-4	
Toluene	**2650**	ug/L	500	158	500		10/07/19 21:51	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/07/19 21:26	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/07/19 21:26	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 21:26	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 21:26	75-01-4	
Xylene (Total)	**1150**	ug/L	15.0	6.8	5		10/07/19 21:26	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 21:26	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 21:26	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: COG-MWS **Lab ID: 30327019004** Collected: 09/30/19 10:09 Received: 09/30/19 22:00 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	1.4	5		10/07/19 21:26	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 21:26	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/07/19 21:26	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		10/07/19 21:26	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	80-120		5		10/07/19 21:26	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		10/07/19 21:26	2037-26-5	
Dibromofluoromethane (S)	89	%.	80-120		5		10/07/19 21:26	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: CO30-PZM015 **Lab ID: 30327019005** Collected: 09/30/19 10:42 Received: 09/30/19 22:00 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	2.7	5		10/08/19 00:32	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 00:32	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 00:32	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 00:32	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 00:32	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 00:32	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 00:32	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/08/19 00:32	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 00:32	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 00:32	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 00:32	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 00:32	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 00:32	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/08/19 00:32	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/08/19 00:32	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/08/19 00:32	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/08/19 00:32	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/08/19 00:32	107-13-1	
Benzene	**53300**	ug/L	500	169	500		10/08/19 00:57	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 00:32	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 00:32	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/08/19 00:32	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/08/19 00:32	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 00:32	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 00:32	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/08/19 00:32	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 00:32	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 00:32	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 00:32	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/08/19 00:32	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 00:32	74-95-3	
Ethylbenzene	**84.8**	ug/L	5.0	2.0	5		10/08/19 00:32	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/08/19 00:32	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 00:32	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 00:32	75-09-2	
Naphthalene	**8640**	ug/L	1000	410	500		10/08/19 00:57	91-20-3	
Styrene	**11.7**	ug/L	5.0	1.6	5		10/08/19 00:32	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 00:32	127-18-4	
Toluene	**4560**	ug/L	500	158	500		10/08/19 00:57	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/08/19 00:32	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/08/19 00:32	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 00:32	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 00:32	75-01-4	
Xylene (Total)	**1230**	ug/L	15.0	6.8	5		10/08/19 00:32	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 00:32	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 00:32	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: CO30-PZM015 **Lab ID: 30327019005** Collected: 09/30/19 10:42 Received: 09/30/19 22:00 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	1.4	5		10/08/19 00:32	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 00:32	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/08/19 00:32	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		5		10/08/19 00:32	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		5		10/08/19 00:32	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		10/08/19 00:32	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		5		10/08/19 00:32	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: CO30-PZM060 **Lab ID: 30327019006** Collected: 09/30/19 11:16 Received: 09/30/19 22:00 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	0.55	1		10/07/19 17:17	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 17:17	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/07/19 17:17	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 17:17	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 17:17	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 17:17	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/07/19 17:17	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/07/19 17:17	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 17:17	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 17:17	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 17:17	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/07/19 17:17	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 17:17	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/07/19 17:17	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/07/19 17:17	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/07/19 17:17	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/07/19 17:17	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/07/19 17:17	107-13-1	
Benzene	**321**	ug/L	5.0	1.7	5		10/08/19 13:28	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 17:17	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/07/19 17:17	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/07/19 17:17	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/07/19 17:17	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 17:17	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 17:17	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/07/19 17:17	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 17:17	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 17:17	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/07/19 17:17	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/07/19 17:17	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/07/19 17:17	74-95-3	
Ethylbenzene	**0.62J**	ug/L	1.0	0.40	1		10/07/19 17:17	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/07/19 17:17	74-88-4	CH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/07/19 17:17	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 17:17	75-09-2	
Naphthalene	**29.0**	ug/L	2.0	0.82	1		10/07/19 17:17	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 17:17	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 17:17	127-18-4	
Toluene	**20.6**	ug/L	1.0	0.32	1		10/07/19 17:17	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 17:17	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/07/19 17:17	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/07/19 17:17	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 17:17	75-01-4	
Xylene (Total)	**9.6**	ug/L	3.0	1.4	1		10/07/19 17:17	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 17:17	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 17:17	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: CO30-PZM060 **Lab ID: 30327019006** Collected: 09/30/19 11:16 Received: 09/30/19 22:00 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	0.28	1		10/07/19 17:17	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 17:17	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/07/19 17:17	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		10/07/19 17:17	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		1		10/07/19 17:17	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		10/07/19 17:17	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		1		10/07/19 17:17	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: COH-MWS **Lab ID: 30327019007** Collected: 09/30/19 11:50 Received: 09/30/19 22:00 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	2.7	5		10/08/19 01:22	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 01:22	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 01:22	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 01:22	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 01:22	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 01:22	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 01:22	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/08/19 01:22	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 01:22	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 01:22	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 01:22	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 01:22	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 01:22	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/08/19 01:22	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/08/19 01:22	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/08/19 01:22	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/08/19 01:22	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/08/19 01:22	107-13-1	
Benzene	**34100**	ug/L	500	169	500		10/08/19 01:47	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 01:22	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 01:22	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/08/19 01:22	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/08/19 01:22	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 01:22	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 01:22	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/08/19 01:22	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 01:22	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 01:22	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 01:22	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/08/19 01:22	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 01:22	74-95-3	
Ethylbenzene	**44.1**	ug/L	5.0	2.0	5		10/08/19 01:22	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/08/19 01:22	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 01:22	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 01:22	75-09-2	
Naphthalene	**1130**	ug/L	10.0	4.1	5		10/08/19 01:22	91-20-3	
Styrene	**11.9**	ug/L	5.0	1.6	5		10/08/19 01:22	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 01:22	127-18-4	
Toluene	**2840**	ug/L	500	158	500		10/08/19 01:47	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/08/19 01:22	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/08/19 01:22	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 01:22	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 01:22	75-01-4	
Xylene (Total)	**575**	ug/L	15.0	6.8	5		10/08/19 01:22	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 01:22	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 01:22	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: COH-MWS **Lab ID: 30327019007** Collected: 09/30/19 11:50 Received: 09/30/19 22:00 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	1.4	5		10/08/19 01:22	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 01:22	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/08/19 01:22	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		5		10/08/19 01:22	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		5		10/08/19 01:22	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		10/08/19 01:22	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		5		10/08/19 01:22	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: COI-MWS **Lab ID: 30327019008** Collected: 09/30/19 12:29 Received: 09/30/19 22:00 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	0.55	1		10/07/19 17:29	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 17:29	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/07/19 17:29	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 17:29	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 17:29	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 17:29	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/07/19 17:29	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/07/19 17:29	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 17:29	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 17:29	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 17:29	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/07/19 17:29	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 17:29	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/07/19 17:29	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/07/19 17:29	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/07/19 17:29	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/07/19 17:29	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/07/19 17:29	107-13-1	
Benzene	**1720**	ug/L	20.0	6.8	20		10/08/19 14:36	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 17:29	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/07/19 17:29	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/07/19 17:29	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/07/19 17:29	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 17:29	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 17:29	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/07/19 17:29	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 17:29	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 17:29	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/07/19 17:29	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/07/19 17:29	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/07/19 17:29	74-95-3	
Ethylbenzene	**4.9**	ug/L	1.0	0.40	1		10/07/19 17:29	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/07/19 17:29	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/07/19 17:29	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 17:29	75-09-2	
Naphthalene	**168**	ug/L	2.0	0.82	1		10/07/19 17:29	91-20-3	
Styrene	**0.97J**	ug/L	1.0	0.33	1		10/07/19 17:29	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 17:29	127-18-4	
Toluene	**130**	ug/L	1.0	0.32	1		10/07/19 17:29	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 17:29	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/07/19 17:29	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/07/19 17:29	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 17:29	75-01-4	
Xylene (Total)	**61.0**	ug/L	3.0	1.4	1		10/07/19 17:29	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 17:29	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 17:29	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: COI-MWS **Lab ID: 30327019008** Collected: 09/30/19 12:29 Received: 09/30/19 22:00 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	0.28	1		10/07/19 17:29	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 17:29	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/07/19 17:29	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		10/07/19 17:29	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		10/07/19 17:29	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		10/07/19 17:29	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		10/07/19 17:29	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: COJ-MWS **Lab ID: 30327019009** Collected: 09/30/19 13:17 Received: 09/30/19 22:00 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	0.55	1		10/07/19 18:44	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 18:44	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/07/19 18:44	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 18:44	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 18:44	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 18:44	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/07/19 18:44	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/07/19 18:44	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 18:44	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 18:44	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 18:44	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/07/19 18:44	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 18:44	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/07/19 18:44	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/07/19 18:44	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/07/19 18:44	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/07/19 18:44	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/07/19 18:44	107-13-1	
Benzene	**1780**	ug/L	10.0	3.4	10		10/07/19 19:09	71-43-2	ML
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 18:44	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/07/19 18:44	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/07/19 18:44	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/07/19 18:44	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 18:44	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 18:44	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/07/19 18:44	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 18:44	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 18:44	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/07/19 18:44	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/07/19 18:44	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/07/19 18:44	74-95-3	
Ethylbenzene	**3.3**	ug/L	1.0	0.40	1		10/07/19 18:44	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/07/19 18:44	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/07/19 18:44	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 18:44	75-09-2	
Naphthalene	**886**	ug/L	20.0	8.2	10		10/07/19 19:09	91-20-3	ML
Styrene	**1.0**	ug/L	1.0	0.33	1		10/07/19 18:44	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 18:44	127-18-4	
Toluene	**134**	ug/L	1.0	0.32	1		10/07/19 18:44	108-88-3	ML
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 18:44	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/07/19 18:44	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/07/19 18:44	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 18:44	75-01-4	
Xylene (Total)	**42.1**	ug/L	3.0	1.4	1		10/07/19 18:44	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 18:44	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 18:44	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327019

Sample: COJ-MWS **Lab ID: 30327019009** Collected: 09/30/19 13:17 Received: 09/30/19 22:00 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	0.28	1		10/07/19 18:44	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 18:44	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/07/19 18:44	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		10/07/19 18:44	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		1		10/07/19 18:44	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		1		10/07/19 18:44	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		1		10/07/19 18:44	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327019

QC Batch: 364973 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30327019001, 30327019003, 30327019004, 30327019006

METHOD BLANK: 1770428 Matrix: Water
Associated Lab Samples: 30327019001, 30327019003, 30327019004, 30327019006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/07/19 16:27	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/07/19 16:27	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/07/19 16:27	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/07/19 16:27	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/07/19 16:27	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/07/19 16:27	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/07/19 16:27	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/07/19 16:27	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/07/19 16:27	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/07/19 16:27	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/07/19 16:27	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/07/19 16:27	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/07/19 16:27	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/07/19 16:27	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/07/19 16:27	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/07/19 16:27	
Acetone	ug/L	10.0 U	10.0	5.6	10/07/19 16:27	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/07/19 16:27	
Benzene	ug/L	1.0 U	1.0	0.34	10/07/19 16:27	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/07/19 16:27	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/07/19 16:27	
Bromoform	ug/L	1.0 U	1.0	0.56	10/07/19 16:27	
Bromomethane	ug/L	1.0 U	1.0	0.73	10/07/19 16:27	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/07/19 16:27	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/07/19 16:27	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/07/19 16:27	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/07/19 16:27	
Chloroform	ug/L	1.0 U	1.0	0.39	10/07/19 16:27	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/07/19 16:27	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/07/19 16:27	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/07/19 16:27	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/07/19 16:27	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/07/19 16:27	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/07/19 16:27	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/07/19 16:27	CH
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/07/19 16:27	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/07/19 16:27	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/07/19 16:27	
Styrene	ug/L	1.0 U	1.0	0.33	10/07/19 16:27	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/07/19 16:27	
Toluene	ug/L	1.0 U	1.0	0.32	10/07/19 16:27	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327019

METHOD BLANK: 1770428 Matrix: Water
Associated Lab Samples: 30327019001, 30327019003, 30327019004, 30327019006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/07/19 16:27	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/07/19 16:27	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/07/19 16:27	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/07/19 16:27	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/07/19 16:27	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/07/19 16:27	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/07/19 16:27	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/07/19 16:27	
1,2-Dichloroethane-d4 (S)	%.	105	80-120		10/07/19 16:27	
4-Bromofluorobenzene (S)	%.	99	78-122		10/07/19 16:27	
Dibromofluoromethane (S)	%.	105	80-120		10/07/19 16:27	
Toluene-d8 (S)	%.	95	80-120		10/07/19 16:27	

LABORATORY CONTROL SAMPLE: 1770429

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	17.6	88	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.7	88	70-130	
1,1,2-Trichloroethane	ug/L	20	18.3	91	70-130	
1,1-Dichloroethane	ug/L	20	16.8	84	68-121	
1,1-Dichloroethene	ug/L	20	16.2	81	63-129	
1,2,3-Trichloropropane	ug/L	20	18.1	90	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.5	98	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	18.4	92	70-130	
1,2-Dichlorobenzene	ug/L	20	18.1	91	70-130	
1,2-Dichloroethane	ug/L	20	17.3	86	67-117	
1,2-Dichloropropane	ug/L	20	17.9	89	69-121	
1,4-Dichlorobenzene	ug/L	20	18.8	94	70-130	
2-Butanone (MEK)	ug/L	20	23.4	117	59-128	
2-Hexanone	ug/L	20	18.5	93	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.9	99	63-126	
Acetone	ug/L	20	21.8	109	37-150	
Acrylonitrile	ug/L	20	22.0	110	62-128	
Benzene	ug/L	20	18.3	92	70-130	
Bromochloromethane	ug/L	20	20.9	104	59-137	
Bromodichloromethane	ug/L	20	19.1	96	70-130	
Bromoform	ug/L	20	18.5	93	65-130	
Bromomethane	ug/L	20	19.4	97	45-148	
Carbon disulfide	ug/L	20	18.4	92	55-123	
Carbon tetrachloride	ug/L	20	18.5	93	69-126	
Chlorobenzene	ug/L	20	18.5	92	70-130	
Chloroethane	ug/L	20	18.2	91	68-146	
Chloroform	ug/L	20	17.8	89	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327019

LABORATORY CONTROL SAMPLE: 1770429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.2	81	56-129	
cis-1,2-Dichloroethene	ug/L	20	17.7	88	66-118	
cis-1,3-Dichloropropene	ug/L	20	18.5	92	70-130	
Dibromochloromethane	ug/L	20	16.9	84	70-130	
Dibromomethane	ug/L	20	17.7	88	70-130	
Ethylbenzene	ug/L	20	18.5	92	70-130	
Iodomethane	ug/L	20	20.2J	101	10-175	CH
Methyl-tert-butyl ether	ug/L	20	19.3	97	70-130	
Methylene Chloride	ug/L	20	17.3	86	65-124	
Naphthalene	ug/L	20	19.3	96	69-135	
Styrene	ug/L	20	18.6	93	70-130	
Tetrachloroethene	ug/L	20	18.9	94	70-130	
Toluene	ug/L	20	18.3	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.7	84	64-123	
trans-1,3-Dichloropropene	ug/L	20	16.9	85	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	22.2	111	37-119	
Trichloroethene	ug/L	20	18.8	94	70-130	
Trichlorofluoromethane	ug/L	20	22.2	111	64-163	
Vinyl acetate	ug/L	20	12.5	62	45-129	
Vinyl chloride	ug/L	20	20.3	102	70-130	
Xylene (Total)	ug/L	60	56.2	94	70-130	
1,2-Dichloroethane-d4 (S)	%.			95	80-120	
4-Bromofluorobenzene (S)	%.			101	78-122	
Dibromofluoromethane (S)	%.			99	80-120	
Toluene-d8 (S)	%.			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770831 1770832

Parameter	Units	30326647002 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	5.0 U	100	100	88.9	72.1	89	72	52-123	21	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	88.9	74.4	89	74	67-127	18	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	86.0	72.6	86	73	55-118	17	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	89.3	75.5	89	75	60-117	17	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	87.3	73.6	87	74	68-118	17	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	81.6	70.1	82	70	62-126	15	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	86.3	76.5	86	77	56-129	12	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	79.1	65.2	79	65	46-130	19	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	93.3	76.4	93	76	69-124	20	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	82.2	71.8	82	72	66-116	13	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	86.6	73.6	87	74	67-117	16	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	92.6	77.2	93	77	61-128	18	30	
1,4-Dichlorobenzene	ug/L	5.0 U	100	100	79.6	69.8	80	70	68-116	13	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	96.2	82.9	96	83	63-175	15	30	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327019

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770831 1770832

Parameter	Units	30326647002 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	50.0 U	100	100	77.5	62.9	77	63	65-151	21	30	ML
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	90.1	73.4	90	73	66-149	20	30	
Acetone	ug/L	50.0 U	100	100	102	77.4	88	63	10-175	28	30	
Acrylonitrile	ug/L	20.0 U	100	100	95.4	74.9	95	75	42-165	24	30	
Benzene	ug/L	765	100	100	797	713	32	-52	67-119	11	30	ML
Bromochloromethane	ug/L	5.0 U	100	100	100	83.7	100	84	64-124	18	30	
Bromodichloromethane	ug/L	5.0 U	100	100	89.4	76.8	89	77	67-126	15	30	
Bromoform	ug/L	5.0 U	100	100	72.6	59.6	73	60	43-114	20	30	
Bromomethane	ug/L	5.0 U	100	100	54.3	52.5	52	50	10-164	4	30	CL
Carbon disulfide	ug/L	5.0 U	100	100	73.0	60.2	73	60	37-135	19	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	86.2	75.4	86	75	60-137	13	30	
Chlorobenzene	ug/L	5.0 U	100	100	86.3	73.6	86	74	68-119	16	30	
Chloroethane	ug/L	5.0 U	100	100	53.3	62.5	53	63	54-169	16	30	ML
Chloroform	ug/L	5.0 U	100	100	92.1	76.7	92	77	69-113	18	30	
Chloromethane	ug/L	5.0 U	100	100	70.7	59.9	71	60	43-159	17	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	86.5	73.3	86	73	65-121	16	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	86.5	74.5	86	75	61-120	15	30	
Dibromochloromethane	ug/L	5.0 U	100	100	76.4	62.5	76	63	56-121	20	30	
Dibromomethane	ug/L	5.0 U	100	100	89.2	76.0	89	76	56-133	16	30	
Ethylbenzene	ug/L	5.0 U	100	100	89.3	75.6	89	76	69-127	17	30	
Iodomethane	ug/L	250 U	100	100	25.5J	38.1J	25	38	10-152		30	
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	89.3	71.9	89	72	70-130	22	30	
Methylene Chloride	ug/L	5.0 U	100	100	89.6	76.6	90	77	49-144	16	30	
Naphthalene	ug/L	42.3	100	100	125	116	83	73	60-136	8	30	
Styrene	ug/L	5.0 U	100	100	85.5	69.5	85	69	65-120	21	30	
Tetrachloroethene	ug/L	5.0 U	100	100	79.1	68.9	79	69	64-123	14	30	
Toluene	ug/L	101	100	100	185	160	83	59	70-130	14	30	ML
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	83.7	68.4	84	68	66-119	20	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	78.0	64.8	78	65	52-117	19	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	80.7	59.3	81	59	13-100	31	30	R1
Trichloroethene	ug/L	5.0 U	100	100	90.9	77.1	91	77	63-125	16	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	95.4	82.8	95	83	43-186	14	30	
Vinyl acetate	ug/L	5.0 U	100	100	55.5	46.3	55	46	35-150	18	30	
Vinyl chloride	ug/L	5.0 U	100	100	94.4	79.0	94	79	60-133	18	30	
Xylene (Total)	ug/L	45.8	300	300	294	248	83	68	69-128	17	30	
1,2-Dichloroethane-d4 (S)	%.						99	97	80-120			
4-Bromofluorobenzene (S)	%.						100	101	78-122			
Dibromofluoromethane (S)	%.						99	98	80-120			
Toluene-d8 (S)	%.						97	95	80-120			

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327019

QC Batch: 364978 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30327019005, 30327019007, 30327019008, 30327019009

METHOD BLANK: 1770436 Matrix: Water
Associated Lab Samples: 30327019005, 30327019007, 30327019008, 30327019009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/07/19 16:39	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/07/19 16:39	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/07/19 16:39	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/07/19 16:39	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/07/19 16:39	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/07/19 16:39	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/07/19 16:39	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/07/19 16:39	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/07/19 16:39	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/07/19 16:39	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/07/19 16:39	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/07/19 16:39	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/07/19 16:39	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/07/19 16:39	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/07/19 16:39	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/07/19 16:39	
Acetone	ug/L	10.0 U	10.0	5.6	10/07/19 16:39	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/07/19 16:39	
Benzene	ug/L	1.0 U	1.0	0.34	10/07/19 16:39	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/07/19 16:39	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/07/19 16:39	
Bromoform	ug/L	1.0 U	1.0	0.56	10/07/19 16:39	
Bromomethane	ug/L	1.0 U	1.0	0.73	10/07/19 16:39	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/07/19 16:39	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/07/19 16:39	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/07/19 16:39	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/07/19 16:39	
Chloroform	ug/L	1.0 U	1.0	0.39	10/07/19 16:39	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/07/19 16:39	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/07/19 16:39	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/07/19 16:39	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/07/19 16:39	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/07/19 16:39	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/07/19 16:39	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/07/19 16:39	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/07/19 16:39	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/07/19 16:39	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/07/19 16:39	
Styrene	ug/L	1.0 U	1.0	0.33	10/07/19 16:39	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/07/19 16:39	
Toluene	ug/L	1.0 U	1.0	0.32	10/07/19 16:39	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327019

METHOD BLANK: 1770436 Matrix: Water
Associated Lab Samples: 30327019005, 30327019007, 30327019008, 30327019009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/07/19 16:39	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/07/19 16:39	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/07/19 16:39	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/07/19 16:39	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/07/19 16:39	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/07/19 16:39	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/07/19 16:39	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/07/19 16:39	
1,2-Dichloroethane-d4 (S)	%.	103	80-120		10/07/19 16:39	
4-Bromofluorobenzene (S)	%.	102	78-122		10/07/19 16:39	
Dibromofluoromethane (S)	%.	100	80-120		10/07/19 16:39	
Toluene-d8 (S)	%.	96	80-120		10/07/19 16:39	

LABORATORY CONTROL SAMPLE: 1770437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.4	92	70-130	
1,1,1-Trichloroethane	ug/L	20	16.6	83	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.5	87	70-130	
1,1,2-Trichloroethane	ug/L	20	17.5	87	70-130	
1,1-Dichloroethane	ug/L	20	16.3	81	68-121	
1,1-Dichloroethene	ug/L	20	15.8	79	63-129	
1,2,3-Trichloropropane	ug/L	20	18.6	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	16.2	81	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	18.7	93	70-130	
1,2-Dichlorobenzene	ug/L	20	17.6	88	70-130	
1,2-Dichloroethane	ug/L	20	17.1	86	67-117	
1,2-Dichloropropane	ug/L	20	17.8	89	69-121	
1,4-Dichlorobenzene	ug/L	20	18.0	90	70-130	
2-Butanone (MEK)	ug/L	20	19.3	97	59-128	
2-Hexanone	ug/L	20	20.2	101	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.3	101	63-126	
Acetone	ug/L	20	23.0	115	37-150	
Acrylonitrile	ug/L	20	21.4	107	62-128	
Benzene	ug/L	20	17.4	87	70-130	
Bromochloromethane	ug/L	20	19.4	97	59-137	
Bromodichloromethane	ug/L	20	18.4	92	70-130	
Bromoform	ug/L	20	15.5	77	65-130	
Bromomethane	ug/L	20	14.5	73	45-148	
Carbon disulfide	ug/L	20	18.4	92	55-123	
Carbon tetrachloride	ug/L	20	17.3	86	69-126	
Chlorobenzene	ug/L	20	18.2	91	70-130	
Chloroethane	ug/L	20	22.3	111	68-146	
Chloroform	ug/L	20	17.5	87	69-116	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327019

LABORATORY CONTROL SAMPLE: 1770437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	15.7	79	56-129	
cis-1,2-Dichloroethene	ug/L	20	17.1	86	66-118	
cis-1,3-Dichloropropene	ug/L	20	17.8	89	70-130	
Dibromochloromethane	ug/L	20	17.8	89	70-130	
Dibromomethane	ug/L	20	18.3	91	70-130	
Ethylbenzene	ug/L	20	17.7	88	70-130	
Iodomethane	ug/L	20	18.4J	92	10-175	
Methyl-tert-butyl ether	ug/L	20	18.9	94	70-130	
Methylene Chloride	ug/L	20	17.8	89	65-124	
Naphthalene	ug/L	20	17.8	89	69-135	
Styrene	ug/L	20	18.5	92	70-130	
Tetrachloroethene	ug/L	20	17.7	89	70-130	
Toluene	ug/L	20	17.7	89	70-130	
trans-1,2-Dichloroethene	ug/L	20	15.5	78	64-123	
trans-1,3-Dichloropropene	ug/L	20	17.9	89	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	19.2	96	37-119	
Trichloroethene	ug/L	20	17.9	90	70-130	
Trichlorofluoromethane	ug/L	20	20.7	103	64-163	
Vinyl acetate	ug/L	20	11.9	59	45-129	
Vinyl chloride	ug/L	20	19.8	99	70-130	
Xylene (Total)	ug/L	60	53.3	89	70-130	
1,2-Dichloroethane-d4 (S)	%.			99	80-120	
4-Bromofluorobenzene (S)	%.			101	78-122	
Dibromofluoromethane (S)	%.			100	80-120	
Toluene-d8 (S)	%.			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770868 1770869

Parameter	Units	30327019009 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	19.8	20.8	99	104	52-123	5	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	17.9	18.6	90	93	67-127	4	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.8	20.1	94	101	55-118	7	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.8	20.4	99	102	60-117	3	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	19.1	19.8	95	99	68-118	4	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	16.7	17.1	83	85	62-126	3	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	19.4	20.5	97	103	56-129	6	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	14.3	15.1	71	76	46-130	6	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	20.3	21.1	101	106	69-124	4	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	19.2	20.8	96	104	66-116	8	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	19.9	20.1	100	101	67-117	1	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	20.8	21.3	104	107	61-128	2	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	19.6	20.9	98	105	68-116	6	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	18.8	16.5	94	83	63-175	13	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327019

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770868 1770869

Parameter	Units	30327019009 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	19.2	18.6	96	93	65-151	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	21.2	20.3	106	101	66-149	4	30	
Acetone	ug/L	10.0 U	20	20	27.2	25.6	136	128	10-175	6	30	
Acrylonitrile	ug/L	4.0 U	20	20	20.5	18.1	102	90	42-165	13	30	
Benzene	ug/L	1780	200	200	1920	1860	70	40	67-119	3	30	ML
Bromochloromethane	ug/L	1.0 U	20	20	22.2	22.9	111	114	64-124	3	30	
Bromodichloromethane	ug/L	1.0 U	20	20	20.2	21.4	101	107	67-126	6	30	
Bromoform	ug/L	1.0 U	20	20	15.1	15.3	75	76	43-114	1	30	
Bromomethane	ug/L	1.0 U	20	20	9.8	9.0	49	45	10-164	8	30	CL
Carbon disulfide	ug/L	1.0 U	20	20	17.9	16.7	90	84	37-135	7	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	17.5	18.0	88	90	60-137	3	30	
Chlorobenzene	ug/L	1.0 U	20	20	20.1	21.0	101	105	68-119	4	30	
Chloroethane	ug/L	1.0 U	20	20	19.2	19.8	96	99	54-169	3	30	
Chloroform	ug/L	1.0 U	20	20	20.5	21.5	103	108	69-113	5	30	
Chloromethane	ug/L	1.0 U	20	20	15.4	15.7	77	78	43-159	2	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.2	20.4	96	102	65-121	6	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	19.3	20.0	97	100	61-120	4	30	
Dibromochloromethane	ug/L	1.0 U	20	20	18.7	19.2	93	96	56-121	3	30	
Dibromomethane	ug/L	1.0 U	20	20	20.6	21.8	103	109	56-133	6	30	
Ethylbenzene	ug/L	3.3	20	20	23.5	24.0	101	103	69-127	2	30	
Iodomethane	ug/L	50.0 U	20	20	12.2J	12.5J	61	62	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	20.6	19.8	103	99	70-130	4	30	
Methylene Chloride	ug/L	1.0 U	20	20	19.6	20.5	98	102	49-144	5	30	
Naphthalene	ug/L	886	200	200	941	906	27	10	60-136	4	30	ML
Styrene	ug/L	1.0	20	20	21.7	22.2	103	106	65-120	2	30	
Tetrachloroethene	ug/L	1.0 U	20	20	19.3	19.8	97	99	64-123	3	30	
Toluene	ug/L	134	20	20	145	144	56	49	70-130	1	30	ML
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.8	18.9	89	94	66-119	6	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	19.2	19.2	96	96	52-117	0	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	14.5	12.0	72	60	13-100	19	30	
Trichloroethene	ug/L	1.0 U	20	20	20.4	21.0	102	105	63-125	3	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	12.9	14.7	65	73	43-186	13	30	
Vinyl acetate	ug/L	1.0 U	20	20	11.4	11.2	57	56	35-150	2	30	
Vinyl chloride	ug/L	1.0 U	20	20	18.1	18.4	91	92	60-133	1	30	
Xylene (Total)	ug/L	42.1	60	60	100	103	97	102	69-128	3	30	
1,2-Dichloroethane-d4 (S)	%.						100	100	80-120			
4-Bromofluorobenzene (S)	%.						102	103	78-122			
Dibromofluoromethane (S)	%.						101	100	80-120			
Toluene-d8 (S)	%.						98	96	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

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327019

QC Batch: 365113 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30327019002

METHOD BLANK: 1770964 Matrix: Water
Associated Lab Samples: 30327019002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/08/19 11:42	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/08/19 11:42	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/08/19 11:42	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/08/19 11:42	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/08/19 11:42	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/08/19 11:42	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/08/19 11:42	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/08/19 11:42	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/08/19 11:42	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/08/19 11:42	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/08/19 11:42	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/08/19 11:42	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/08/19 11:42	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/08/19 11:42	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/08/19 11:42	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/08/19 11:42	
Acetone	ug/L	10.0 U	10.0	5.6	10/08/19 11:42	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/08/19 11:42	
Benzene	ug/L	1.0 U	1.0	0.34	10/08/19 11:42	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/08/19 11:42	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/08/19 11:42	
Bromoform	ug/L	1.0 U	1.0	0.56	10/08/19 11:42	
Bromomethane	ug/L	1.0 U	1.0	0.73	10/08/19 11:42	CL
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/08/19 11:42	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/08/19 11:42	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/08/19 11:42	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/08/19 11:42	
Chloroform	ug/L	1.0 U	1.0	0.39	10/08/19 11:42	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/08/19 11:42	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/08/19 11:42	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/08/19 11:42	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/08/19 11:42	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/08/19 11:42	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/08/19 11:42	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/08/19 11:42	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/08/19 11:42	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/08/19 11:42	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/08/19 11:42	
Styrene	ug/L	1.0 U	1.0	0.33	10/08/19 11:42	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/08/19 11:42	
Toluene	ug/L	1.0 U	1.0	0.32	10/08/19 11:42	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327019

METHOD BLANK: 1770964 Matrix: Water
Associated Lab Samples: 30327019002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/08/19 11:42	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/08/19 11:42	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/08/19 11:42	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/08/19 11:42	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/08/19 11:42	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/08/19 11:42	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/08/19 11:42	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/08/19 11:42	
1,2-Dichloroethane-d4 (S)	%.	102	80-120		10/08/19 11:42	
4-Bromofluorobenzene (S)	%.	103	78-122		10/08/19 11:42	
Dibromofluoromethane (S)	%.	101	80-120		10/08/19 11:42	
Toluene-d8 (S)	%.	94	80-120		10/08/19 11:42	

LABORATORY CONTROL SAMPLE: 1770965

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	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	70-130	
1,1,2-Trichloroethane	ug/L	20	20.3	102	70-130	
1,1-Dichloroethane	ug/L	20	19.1	95	68-121	
1,1-Dichloroethene	ug/L	20	18.3	92	63-129	
1,2,3-Trichloropropane	ug/L	20	20.0	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.9	95	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.7	104	70-130	
1,2-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	19.7	99	67-117	
1,2-Dichloropropane	ug/L	20	20.7	104	69-121	
1,4-Dichlorobenzene	ug/L	20	20.2	101	70-130	
2-Butanone (MEK)	ug/L	20	19.9	100	59-128	
2-Hexanone	ug/L	20	16.4	82	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.6	98	63-126	
Acetone	ug/L	20	19.9	99	37-150	
Acrylonitrile	ug/L	20	20.5	103	62-128	
Benzene	ug/L	20	21.0	105	70-130	
Bromochloromethane	ug/L	20	23.6	118	59-137	
Bromodichloromethane	ug/L	20	21.1	105	70-130	
Bromoform	ug/L	20	19.0	95	65-130	
Bromomethane	ug/L	20	14.3	71	45-148	CL
Carbon disulfide	ug/L	20	18.0	90	55-123	
Carbon tetrachloride	ug/L	20	20.9	104	69-126	
Chlorobenzene	ug/L	20	21.0	105	70-130	
Chloroethane	ug/L	20	18.3	91	68-146	
Chloroform	ug/L	20	20.4	102	69-116	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327019

LABORATORY CONTROL SAMPLE: 1770965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.0	80	56-129	
cis-1,2-Dichloroethene	ug/L	20	19.9	99	66-118	
cis-1,3-Dichloropropene	ug/L	20	20.9	105	70-130	
Dibromochloromethane	ug/L	20	18.3	91	70-130	
Dibromomethane	ug/L	20	20.7	104	70-130	
Ethylbenzene	ug/L	20	20.7	103	70-130	
Iodomethane	ug/L	20	17.5J	87	10-175	
Methyl-tert-butyl ether	ug/L	20	19.3	97	70-130	
Methylene Chloride	ug/L	20	20.1	101	65-124	
Naphthalene	ug/L	20	20.7	104	69-135	
Styrene	ug/L	20	20.6	103	70-130	
Tetrachloroethene	ug/L	20	20.3	102	70-130	
Toluene	ug/L	20	20.4	102	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.7	93	64-123	
trans-1,3-Dichloropropene	ug/L	20	18.9	95	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	20.0	100	37-119	
Trichloroethene	ug/L	20	21.3	107	70-130	
Trichlorofluoromethane	ug/L	20	23.4	117	64-163	
Vinyl acetate	ug/L	20	12.5	62	45-129	
Vinyl chloride	ug/L	20	21.2	106	70-130	
Xylene (Total)	ug/L	60	61.9	103	70-130	
1,2-Dichloroethane-d4 (S)	%.			98	80-120	
4-Bromofluorobenzene (S)	%.			101	78-122	
Dibromofluoromethane (S)	%.			101	80-120	
Toluene-d8 (S)	%.			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770966 1770967

Parameter	Units	30327343001 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	16.3	17.3	81	86	52-123	6	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.7	17.3	88	86	67-127	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.7	16.8	83	84	55-118	1	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.8	17.1	89	85	60-117	4	30	
1,1-Dichloroethane	ug/L	ND	20	20	17.0	17.0	85	85	68-118	0	30	
1,1-Dichloroethene	ug/L	ND	20	20	16.8	16.7	84	83	62-126	1	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	16.3	16.9	82	84	56-129	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	14.8	15.2	74	76	46-130	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.3	17.7	91	88	69-124	3	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	17.7	17.4	89	87	66-116	2	30	
1,2-Dichloroethane	ug/L	ND	20	20	16.9	16.6	85	83	67-117	2	30	
1,2-Dichloropropane	ug/L	ND	20	20	18.2	18.1	91	91	61-128	0	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.0	17.7	90	89	68-116	1	30	
2-Butanone (MEK)	ug/L	ND	20	20	19.5	17.0	97	85	63-175	14	30	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327019

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770966 1770967

Parameter	Units	30327343001 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	14.7	14.3	74	72	65-151	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	17.9	17.7	90	88	66-149	1	30	
Acetone	ug/L	ND	20	20	19.0	19.0	95	95	10-175	0	30	
Acrylonitrile	ug/L	ND	20	20	18.9	18.1	94	90	42-165	4	30	
Benzene	ug/L	ND	20	20	25.6	22.2	128	111	67-119	14	30	C8,MH
Bromochloromethane	ug/L	ND	20	20	21.1	20.4	106	102	64-124	3	30	
Bromodichloromethane	ug/L	ND	20	20	17.6	17.4	88	87	67-126	1	30	
Bromoform	ug/L	ND	20	20	14.6	14.4	73	72	43-114	1	30	
Bromomethane	ug/L	ND	20	20	1.9	2.6	10	13	10-164	32	30	CL,R1
Carbon disulfide	ug/L	ND	20	20	16.7	16.1	84	80	37-135	4	30	
Carbon tetrachloride	ug/L	ND	20	20	17.5	17.7	88	89	60-137	1	30	
Chlorobenzene	ug/L	ND	20	20	18.3	17.8	92	89	68-119	3	30	
Chloroethane	ug/L	ND	20	20	15.9	15.8	80	79	54-169	0	30	
Chloroform	ug/L	ND	20	20	17.8	18.2	89	91	69-113	3	30	
Chloromethane	ug/L	ND	20	20	10.5	10.7	53	53	43-159	1	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.4	17.1	87	86	65-121	1	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.7	16.7	83	84	61-120	0	30	
Dibromochloromethane	ug/L	ND	20	20	13.7	14.4	69	72	56-121	5	30	
Dibromomethane	ug/L	ND	20	20	17.9	18.1	89	90	56-133	1	30	
Ethylbenzene	ug/L	ND	20	20	18.6	17.1	93	85	69-127	9	30	
Iodomethane	ug/L	ND	20	20	4.2J	7.8J	21	39	10-152		30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.9	18.1	94	90	70-130	4	30	
Methylene Chloride	ug/L	ND	20	20	17.2	16.7	86	84	49-144	3	30	
Naphthalene	ug/L	ND	20	20	17.8	17.7	89	88	60-136	1	30	
Styrene	ug/L	ND	20	20	18.0	17.4	90	87	65-120	3	30	
Tetrachloroethene	ug/L	ND	20	20	18.1	17.3	90	86	64-123	5	30	
Toluene	ug/L	ND	20	20	22.3	19.9	112	100	70-130	11	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	16.7	16.6	84	83	66-119	1	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	14.8	14.4	74	72	52-117	3	30	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	11.0	10.3	55	51	13-100	7	30	
Trichloroethene	ug/L	ND	20	20	18.6	18.5	93	93	63-125	0	30	
Trichlorofluoromethane	ug/L	ND	20	20	18.8	18.5	94	93	43-186	1	30	
Vinyl acetate	ug/L	ND	20	20	9.9	9.9	50	50	35-150	0	30	
Vinyl chloride	ug/L	ND	20	20	15.3	15.0	76	75	60-133	2	30	
Xylene (Total)	ug/L	ND	60	60	56.7	53.2	94	89	69-128	6	30	
1,2-Dichloroethane-d4 (S)	%.						96	99	80-120			
4-Bromofluorobenzene (S)	%.						99	101	78-122			
Dibromofluoromethane (S)	%.						100	99	80-120			
Toluene-d8 (S)	%.						97	97	80-120			

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(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30327019

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.
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.
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.: 30327019

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30327019001	**Trip Blank**	EPA 8260B	364973		
30327019002	**CO104-PZM**	EPA 8260B	365113		
30327019003	**COF-MWS**	EPA 8260B	364973		
30327019004	**COG-MWS**	EPA 8260B	364973		
30327019005	**CO30-PZM015**	EPA 8260B	364978		
30327019006	**CO30-PZM060**	EPA 8260B	364973		
30327019007	**COH-MWS**	EPA 8260B	364978		
30327019008	**COI-MWS**	EPA 8260B	364978		
30327019009	**COJ-MWS**	EPA 8260B	364978		

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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
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: 190279M-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: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

WO# : 30327019

SAMPLE ID	MATRIX CODE	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	Pace Project No./ Lab I.D.
Trip Blank	WT				9/30/19			2								X		30327019 001
C0104-PZM	WT	G			9/30/19	0850		3								X		002
COF-MWS	WT	G				0929		3								X		003
COG-MWS	WT	G				1009		3								X		004
C030-PZM015	WT	G				1042		3								X		005
C03e-PZM060	WT	G				1116		3								X		006
COH-MWS	WT	G				1150		3								X		007
COI-MWS	WT	G				1229		3								X		008
COJ-MWS	WT	G				1317		3								X		009
								26										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
No package	Joshua Barner ARM	09/30/19	14:00	GMB/Pace	9/30/19	15:30	
No validation	GMB/Pace	9/30/19	18:45	RDS TACE	9/30/19	1820	Y
	RDS TACE	9-30-19	2200	Marion T Clay	09-30-19	2200	L3 Y N Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joshua Barner
SIGNATURE of SAMPLER: Joshua Barner
DATE Signed (MM/DD/YY): 09/30/19

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

#30327019

Pace Analytical

Client Name: EnviroAnalytics Group Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other

Label MLC
LIMS Login MLC

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Thermometer Used 11 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 1.3 °C Correction Factor: 0 °C Final Temp: 1.3 °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: MLC 9/30/19
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. One sample COF-MW5 was dropped by me breaking the lid.	
Orthophosphate field filtered			✓	12.	
Hex Cr Aqueous sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. exceptions (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16.	
All containers meet method preservation requirements.	✓			Initial when completed MLC	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	✓			17. Both trip blanks have headspace >6mm	
Trip Blank Present:	✓			18.	
Trip Blank Custody Seals Present	✓				
Rad 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 09, 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.: 30327286

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on October 01, 2019. 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.: 30327286

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
Florida: Cert E871149 SEKS WET
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.: 30327286

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30327286001	**trip blank**	Water	10/01/19 00:01	10/01/19 23:00
30327286002	**COB-MWS**	Water	10/01/19 08:36	10/01/19 23:00
30327286003	**COC-MWS**	Water	10/01/19 09:13	10/01/19 23:00
30327286004	**CO103-PZM**	Water	10/01/19 09:53	10/01/19 23:00
30327286005	**CO101-PZM**	Water	10/01/19 10:05	10/01/19 23:00
30327286006	**COD-MWS**	Water	10/01/19 10:59	10/01/19 23:00
30327286007	**CO102-PZM**	Water	10/01/19 11:35	10/01/19 23:00
30327286008	**COE-MWS**	Water	10/01/19 12:07	10/01/19 23:00
30327286009	**COA-MWS**	Water	10/01/19 12:54	10/01/19 23:00

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30327286

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30327286001	**trip blank**	EPA 8260B	LEL	53	PASI-PA
30327286002	**COB-MWS**	EPA 8260B	LEL	53	PASI-PA
30327286003	**COC-MWS**	EPA 8260B	LEL	53	PASI-PA
30327286004	**CO103-PZM**	EPA 8260B	LEL	53	PASI-PA
30327286005	**CO101-PZM**	EPA 8260B	LEL	53	PASI-PA
30327286006	**COD-MWS**	EPA 8260B	LEL	53	PASI-PA
30327286007	**CO102-PZM**	EPA 8260B	LEL	53	PASI-PA
30327286008	**COE-MWS**	EPA 8260B	LEL	53	PASI-PA
30327286009	**COA-MWS**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: trip blank **Lab ID: 30327286001** Collected: 10/01/19 00:01 Received: 10/01/19 23:00 Matrix: Water

Comments: • Trip blanks have headspace >6mm

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	0.55	1		10/07/19 17:04	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 17:04	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/07/19 17:04	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 17:04	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 17:04	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 17:04	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/07/19 17:04	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/07/19 17:04	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 17:04	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 17:04	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 17:04	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/07/19 17:04	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 17:04	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/07/19 17:04	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/07/19 17:04	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/07/19 17:04	108-10-1	
Acetone	**8.5J**	ug/L	10.0	5.6	1		10/07/19 17:04	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/07/19 17:04	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		10/07/19 17:04	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 17:04	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/07/19 17:04	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/07/19 17:04	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/07/19 17:04	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 17:04	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 17:04	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/07/19 17:04	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 17:04	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 17:04	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/07/19 17:04	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/07/19 17:04	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/07/19 17:04	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/07/19 17:04	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/07/19 17:04	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/07/19 17:04	1634-04-4	
Methylene Chloride	**1.9**	ug/L	1.0	0.64	1		10/07/19 17:04	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		10/07/19 17:04	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 17:04	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 17:04	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 17:04	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 17:04	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/07/19 17:04	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/07/19 17:04	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 17:04	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		10/07/19 17:04	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 17:04	156-59-2	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: trip blank **Lab ID: 30327286001** Collected: 10/01/19 00:01 Received: 10/01/19 23:00 Matrix: Water

Comments: • Trip blanks have headspace >6mm

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	0.29	1		10/07/19 17:04	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		10/07/19 17:04	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 17:04	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/07/19 17:04	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		10/07/19 17:04	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		10/07/19 17:04	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		10/07/19 17:04	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		1		10/07/19 17:04	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: COB-MWS **Lab ID: 30327286002** Collected: 10/01/19 08:36 Received: 10/01/19 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	2.7	5		10/07/19 18:19	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 18:19	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 18:19	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 18:19	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 18:19	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 18:19	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 18:19	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/07/19 18:19	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 18:19	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 18:19	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 18:19	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 18:19	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 18:19	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/07/19 18:19	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/07/19 18:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/07/19 18:19	108-10-1	
Acetone	**75.4**	ug/L	50.0	28.0	5		10/07/19 18:19	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/07/19 18:19	107-13-1	
Benzene	**1160**	ug/L	5.0	1.7	5		10/07/19 18:19	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 18:19	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 18:19	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/07/19 18:19	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/07/19 18:19	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 18:19	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 18:19	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/07/19 18:19	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 18:19	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 18:19	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 18:19	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/07/19 18:19	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 18:19	74-95-3	
Ethylbenzene	**4.8J**	ug/L	5.0	2.0	5		10/07/19 18:19	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/07/19 18:19	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 18:19	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 18:19	75-09-2	
Naphthalene	**2450**	ug/L	40.0	16.4	20		10/08/19 15:04	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 18:19	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 18:19	127-18-4	
Toluene	**141**	ug/L	5.0	1.6	5		10/07/19 18:19	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/07/19 18:19	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/07/19 18:19	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 18:19	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 18:19	75-01-4	
Xylene (Total)	**70.9**	ug/L	15.0	6.8	5		10/07/19 18:19	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 18:19	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 18:19	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: COB-MWS **Lab ID: 30327286002** Collected: 10/01/19 08:36 Received: 10/01/19 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	1.4	5		10/07/19 18:19	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 18:19	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/07/19 18:19	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		10/07/19 18:19	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		5		10/07/19 18:19	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		10/07/19 18:19	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		10/07/19 18:19	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: COC-MWS **Lab ID: 30327286003** Collected: 10/01/19 09:13 Received: 10/01/19 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	2.7	5		10/07/19 23:43	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 23:43	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 23:43	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 23:43	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 23:43	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 23:43	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 23:43	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/07/19 23:43	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 23:43	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 23:43	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 23:43	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 23:43	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 23:43	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/07/19 23:43	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/07/19 23:43	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/07/19 23:43	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/07/19 23:43	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/07/19 23:43	107-13-1	
Benzene	**54100**	ug/L	200	67.6	200		10/08/19 00:08	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 23:43	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 23:43	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/07/19 23:43	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/07/19 23:43	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 23:43	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 23:43	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/07/19 23:43	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 23:43	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 23:43	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 23:43	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/07/19 23:43	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 23:43	74-95-3	
Ethylbenzene	**85.3**	ug/L	5.0	2.0	5		10/07/19 23:43	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/07/19 23:43	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 23:43	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 23:43	75-09-2	
Naphthalene	**4850**	ug/L	400	164	200		10/08/19 00:08	91-20-3	
Styrene	**16.1**	ug/L	5.0	1.6	5		10/07/19 23:43	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 23:43	127-18-4	
Toluene	**4320**	ug/L	200	63.4	200		10/08/19 00:08	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/07/19 23:43	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/07/19 23:43	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 23:43	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 23:43	75-01-4	
Xylene (Total)	**1170**	ug/L	15.0	6.8	5		10/07/19 23:43	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 23:43	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 23:43	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: COC-MWS **Lab ID: 30327286003** Collected: 10/01/19 09:13 Received: 10/01/19 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	1.4	5		10/07/19 23:43	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 23:43	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/07/19 23:43	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		5		10/07/19 23:43	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		5		10/07/19 23:43	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		10/07/19 23:43	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		5		10/07/19 23:43	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: CO103-PZM **Lab ID: 30327286004** Collected: 10/01/19 09:53 Received: 10/01/19 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	0.55	1		10/07/19 20:24	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 20:24	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/07/19 20:24	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 20:24	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 20:24	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 20:24	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/07/19 20:24	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/07/19 20:24	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 20:24	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 20:24	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 20:24	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/07/19 20:24	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 20:24	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/07/19 20:24	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/07/19 20:24	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/07/19 20:24	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/07/19 20:24	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/07/19 20:24	107-13-1	
Benzene	**14500**	ug/L	50.0	16.9	50		10/07/19 20:49	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 20:24	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/07/19 20:24	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/07/19 20:24	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/07/19 20:24	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 20:24	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 20:24	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/07/19 20:24	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 20:24	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 20:24	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/07/19 20:24	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/07/19 20:24	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/07/19 20:24	74-95-3	
Ethylbenzene	**23.6**	ug/L	1.0	0.40	1		10/07/19 20:24	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/07/19 20:24	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/07/19 20:24	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 20:24	75-09-2	
Naphthalene	**1810**	ug/L	100	41.0	50		10/07/19 20:49	91-20-3	
Styrene	**2.0**	ug/L	1.0	0.33	1		10/07/19 20:24	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 20:24	127-18-4	
Toluene	**901**	ug/L	50.0	15.8	50		10/07/19 20:49	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 20:24	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/07/19 20:24	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/07/19 20:24	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 20:24	75-01-4	
Xylene (Total)	**367**	ug/L	3.0	1.4	1		10/07/19 20:24	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 20:24	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 20:24	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: CO103-PZM **Lab ID: 30327286004** Collected: 10/01/19 09:53 Received: 10/01/19 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	0.28	1		10/07/19 20:24	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 20:24	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/07/19 20:24	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		10/07/19 20:24	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		10/07/19 20:24	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		1		10/07/19 20:24	2037-26-5	
Dibromofluoromethane (S)	90	%.	80-120		1		10/07/19 20:24	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: CO101-PZM **Lab ID: 30327286005** Collected: 10/01/19 10:05 Received: 10/01/19 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	0.55	1		10/07/19 19:34	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 19:34	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/07/19 19:34	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 19:34	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 19:34	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 19:34	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/07/19 19:34	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/07/19 19:34	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 19:34	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 19:34	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 19:34	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/07/19 19:34	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 19:34	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/07/19 19:34	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/07/19 19:34	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/07/19 19:34	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/07/19 19:34	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/07/19 19:34	107-13-1	
Benzene	**1800**	ug/L	20.0	6.8	20		10/07/19 19:59	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 19:34	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/07/19 19:34	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/07/19 19:34	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/07/19 19:34	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 19:34	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 19:34	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/07/19 19:34	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 19:34	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 19:34	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/07/19 19:34	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/07/19 19:34	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/07/19 19:34	74-95-3	
Ethylbenzene	**2.7**	ug/L	1.0	0.40	1		10/07/19 19:34	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/07/19 19:34	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/07/19 19:34	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 19:34	75-09-2	
Naphthalene	**105**	ug/L	2.0	0.82	1		10/07/19 19:34	91-20-3	
Styrene	**0.75J**	ug/L	1.0	0.33	1		10/07/19 19:34	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 19:34	127-18-4	
Toluene	**135**	ug/L	1.0	0.32	1		10/07/19 19:34	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 19:34	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/07/19 19:34	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/07/19 19:34	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 19:34	75-01-4	
Xylene (Total)	**37.6**	ug/L	3.0	1.4	1		10/07/19 19:34	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 19:34	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 19:34	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: CO101-PZM **Lab ID: 30327286005** Collected: 10/01/19 10:05 Received: 10/01/19 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	0.28	1		10/07/19 19:34	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 19:34	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/07/19 19:34	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		10/07/19 19:34	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		10/07/19 19:34	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		10/07/19 19:34	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		1		10/07/19 19:34	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: COD-MWS **Lab ID: 30327286006** Collected: 10/01/19 10:59 Received: 10/01/19 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	0.55	1		10/07/19 22:03	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 22:03	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/07/19 22:03	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 22:03	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 22:03	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 22:03	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/07/19 22:03	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/07/19 22:03	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 22:03	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 22:03	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 22:03	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/07/19 22:03	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 22:03	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/07/19 22:03	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/07/19 22:03	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/07/19 22:03	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/07/19 22:03	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/07/19 22:03	107-13-1	
Benzene	**11200**	ug/L	100	33.8	100		10/07/19 22:28	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 22:03	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/07/19 22:03	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/07/19 22:03	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/07/19 22:03	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 22:03	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 22:03	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/07/19 22:03	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 22:03	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 22:03	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/07/19 22:03	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/07/19 22:03	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/07/19 22:03	74-95-3	
Ethylbenzene	**19.3**	ug/L	1.0	0.40	1		10/07/19 22:03	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/07/19 22:03	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/07/19 22:03	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 22:03	75-09-2	
Naphthalene	**2420**	ug/L	200	81.9	100		10/07/19 22:28	91-20-3	
Styrene	**5.5**	ug/L	1.0	0.33	1		10/07/19 22:03	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 22:03	127-18-4	
Toluene	**978**	ug/L	100	31.7	100		10/07/19 22:28	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 22:03	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/07/19 22:03	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/07/19 22:03	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 22:03	75-01-4	
Xylene (Total)	**253**	ug/L	3.0	1.4	1		10/07/19 22:03	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 22:03	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 22:03	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: COD-MWS **Lab ID: 30327286006** Collected: 10/01/19 10:59 Received: 10/01/19 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	0.28	1		10/07/19 22:03	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 22:03	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/07/19 22:03	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		1		10/07/19 22:03	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		1		10/07/19 22:03	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		1		10/07/19 22:03	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		1		10/07/19 22:03	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: CO102-PZM **Lab ID: 30327286007** Collected: 10/01/19 11:35 Received: 10/01/19 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	2.7	5		10/07/19 22:53	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 22:53	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 22:53	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 22:53	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 22:53	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 22:53	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 22:53	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/07/19 22:53	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 22:53	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 22:53	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 22:53	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 22:53	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 22:53	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/07/19 22:53	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/07/19 22:53	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/07/19 22:53	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/07/19 22:53	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/07/19 22:53	107-13-1	
Benzene	**4800**	ug/L	100	33.8	100		10/07/19 23:18	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/07/19 22:53	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 22:53	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/07/19 22:53	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/07/19 22:53	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 22:53	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/07/19 22:53	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/07/19 22:53	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 22:53	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 22:53	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 22:53	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/07/19 22:53	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/07/19 22:53	74-95-3	
Ethylbenzene	**8.7**	ug/L	5.0	2.0	5		10/07/19 22:53	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/07/19 22:53	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/07/19 22:53	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/07/19 22:53	75-09-2	
Naphthalene	**422**	ug/L	10.0	4.1	5		10/07/19 22:53	91-20-3	
Styrene	**2.0J**	ug/L	5.0	1.6	5		10/07/19 22:53	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/07/19 22:53	127-18-4	
Toluene	**343**	ug/L	5.0	1.6	5		10/07/19 22:53	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/07/19 22:53	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/07/19 22:53	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/07/19 22:53	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 22:53	75-01-4	
Xylene (Total)	**96.8**	ug/L	15.0	6.8	5		10/07/19 22:53	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/07/19 22:53	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/07/19 22:53	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: CO102-PZM **Lab ID: 30327286007** Collected: 10/01/19 11:35 Received: 10/01/19 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	1.4	5		10/07/19 22:53	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/07/19 22:53	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/07/19 22:53	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		10/07/19 22:53	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		5		10/07/19 22:53	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		10/07/19 22:53	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		10/07/19 22:53	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: COE-MWS **Lab ID: 30327286008** Collected: 10/01/19 12:07 Received: 10/01/19 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	0.55	1		10/07/19 21:14	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 21:14	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/07/19 21:14	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 21:14	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 21:14	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/07/19 21:14	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/07/19 21:14	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/07/19 21:14	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 21:14	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 21:14	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/07/19 21:14	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/07/19 21:14	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 21:14	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/07/19 21:14	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/07/19 21:14	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/07/19 21:14	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/07/19 21:14	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/07/19 21:14	107-13-1	
Benzene	**5680**	ug/L	100	33.8	100		10/07/19 21:38	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/07/19 21:14	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/07/19 21:14	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/07/19 21:14	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/07/19 21:14	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 21:14	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/07/19 21:14	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/07/19 21:14	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 21:14	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 21:14	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/07/19 21:14	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/07/19 21:14	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/07/19 21:14	74-95-3	
Ethylbenzene	**10.8**	ug/L	1.0	0.40	1		10/07/19 21:14	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/07/19 21:14	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/07/19 21:14	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/07/19 21:14	75-09-2	
Naphthalene	**3250**	ug/L	200	81.9	100		10/07/19 21:38	91-20-3	
Styrene	**3.0**	ug/L	1.0	0.33	1		10/07/19 21:14	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/07/19 21:14	127-18-4	
Toluene	**420**	ug/L	100	31.7	100		10/07/19 21:38	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 21:14	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/07/19 21:14	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/07/19 21:14	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 21:14	75-01-4	
Xylene (Total)	**116**	ug/L	3.0	1.4	1		10/07/19 21:14	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/07/19 21:14	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/07/19 21:14	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: COE-MWS **Lab ID: 30327286008** Collected: 10/01/19 12:07 Received: 10/01/19 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	0.28	1		10/07/19 21:14	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/07/19 21:14	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/07/19 21:14	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		10/07/19 21:14	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		1		10/07/19 21:14	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		10/07/19 21:14	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		1		10/07/19 21:14	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: COA-MWS **Lab ID: 30327286009** Collected: 10/01/19 12:54 Received: 10/01/19 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	2.7	5		10/08/19 18:26	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 18:26	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 18:26	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 18:26	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 18:26	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 18:26	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 18:26	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/08/19 18:26	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 18:26	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 18:26	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 18:26	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 18:26	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 18:26	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/08/19 18:26	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/08/19 18:26	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/08/19 18:26	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/08/19 18:26	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/08/19 18:26	107-13-1	
Benzene	**33700**	ug/L	200	67.6	200		10/08/19 18:51	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 18:26	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 18:26	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/08/19 18:26	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/08/19 18:26	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 18:26	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 18:26	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/08/19 18:26	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 18:26	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 18:26	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 18:26	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/08/19 18:26	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 18:26	74-95-3	
Ethylbenzene	**50.9**	ug/L	5.0	2.0	5		10/08/19 18:26	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/08/19 18:26	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 18:26	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 18:26	75-09-2	
Naphthalene	**1170**	ug/L	10.0	4.1	5		10/08/19 18:26	91-20-3	
Styrene	**15.3**	ug/L	5.0	1.6	5		10/08/19 18:26	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 18:26	127-18-4	
Toluene	**3320**	ug/L	200	63.4	200		10/08/19 18:51	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/08/19 18:26	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/08/19 18:26	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 18:26	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 18:26	75-01-4	
Xylene (Total)	**599**	ug/L	15.0	6.8	5		10/08/19 18:26	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 18:26	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 18:26	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327286

Sample: COA-MWS **Lab ID: 30327286009** Collected: 10/01/19 12:54 Received: 10/01/19 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	1.4	5		10/08/19 18:26	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 18:26	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/08/19 18:26	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		10/08/19 18:26	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		5		10/08/19 18:26	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		10/08/19 18:26	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		10/08/19 18:26	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327286

QC Batch: 364978 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30327286001, 30327286002, 30327286003, 30327286004, 30327286005, 30327286006, 30327286007, 30327286008

METHOD BLANK: 1770436 Matrix: Water
Associated Lab Samples: 30327286001, 30327286002, 30327286003, 30327286004, 30327286005, 30327286006, 30327286007, 30327286008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/07/19 16:39	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/07/19 16:39	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/07/19 16:39	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/07/19 16:39	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/07/19 16:39	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/07/19 16:39	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/07/19 16:39	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/07/19 16:39	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/07/19 16:39	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/07/19 16:39	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/07/19 16:39	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/07/19 16:39	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/07/19 16:39	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/07/19 16:39	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/07/19 16:39	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/07/19 16:39	
Acetone	ug/L	10.0 U	10.0	5.6	10/07/19 16:39	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/07/19 16:39	
Benzene	ug/L	1.0 U	1.0	0.34	10/07/19 16:39	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/07/19 16:39	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/07/19 16:39	
Bromoform	ug/L	1.0 U	1.0	0.56	10/07/19 16:39	
Bromomethane	ug/L	1.0 U	1.0	0.73	10/07/19 16:39	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/07/19 16:39	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/07/19 16:39	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/07/19 16:39	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/07/19 16:39	
Chloroform	ug/L	1.0 U	1.0	0.39	10/07/19 16:39	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/07/19 16:39	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/07/19 16:39	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/07/19 16:39	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/07/19 16:39	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/07/19 16:39	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/07/19 16:39	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/07/19 16:39	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/07/19 16:39	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/07/19 16:39	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/07/19 16:39	
Styrene	ug/L	1.0 U	1.0	0.33	10/07/19 16:39	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/07/19 16:39	

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.: 30327286

METHOD BLANK: 1770436 Matrix: Water

Associated Lab Samples: 30327286001, 30327286002, 30327286003, 30327286004, 30327286005, 30327286006, 30327286007, 30327286008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.32	10/07/19 16:39	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/07/19 16:39	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/07/19 16:39	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/07/19 16:39	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/07/19 16:39	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/07/19 16:39	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/07/19 16:39	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/07/19 16:39	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/07/19 16:39	
1,2-Dichloroethane-d4 (S)	%.	103	80-120		10/07/19 16:39	
4-Bromofluorobenzene (S)	%.	102	78-122		10/07/19 16:39	
Dibromofluoromethane (S)	%.	100	80-120		10/07/19 16:39	
Toluene-d8 (S)	%.	96	80-120		10/07/19 16:39	

LABORATORY CONTROL SAMPLE: 1770437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.4	92	70-130	
1,1,1-Trichloroethane	ug/L	20	16.6	83	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.5	87	70-130	
1,1,2-Trichloroethane	ug/L	20	17.5	87	70-130	
1,1-Dichloroethane	ug/L	20	16.3	81	68-121	
1,1-Dichloroethene	ug/L	20	15.8	79	63-129	
1,2,3-Trichloropropane	ug/L	20	18.6	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	16.2	81	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	18.7	93	70-130	
1,2-Dichlorobenzene	ug/L	20	17.6	88	70-130	
1,2-Dichloroethane	ug/L	20	17.1	86	67-117	
1,2-Dichloropropane	ug/L	20	17.8	89	69-121	
1,4-Dichlorobenzene	ug/L	20	18.0	90	70-130	
2-Butanone (MEK)	ug/L	20	19.3	97	59-128	
2-Hexanone	ug/L	20	20.2	101	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.3	101	63-126	
Acetone	ug/L	20	23.0	115	37-150	
Acrylonitrile	ug/L	20	21.4	107	62-128	
Benzene	ug/L	20	17.4	87	70-130	
Bromochloromethane	ug/L	20	19.4	97	59-137	
Bromodichloromethane	ug/L	20	18.4	92	70-130	
Bromoform	ug/L	20	15.5	77	65-130	
Bromomethane	ug/L	20	14.5	73	45-148	
Carbon disulfide	ug/L	20	18.4	92	55-123	
Carbon tetrachloride	ug/L	20	17.3	86	69-126	
Chlorobenzene	ug/L	20	18.2	91	70-130	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327286

LABORATORY CONTROL SAMPLE: 1770437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	22.3	111	68-146	
Chloroform	ug/L	20	17.5	87	69-116	
Chloromethane	ug/L	20	15.7	79	56-129	
cis-1,2-Dichloroethene	ug/L	20	17.1	86	66-118	
cis-1,3-Dichloropropene	ug/L	20	17.8	89	70-130	
Dibromochloromethane	ug/L	20	17.8	89	70-130	
Dibromomethane	ug/L	20	18.3	91	70-130	
Ethylbenzene	ug/L	20	17.7	88	70-130	
Iodomethane	ug/L	20	18.4J	92	10-175	
Methyl-tert-butyl ether	ug/L	20	18.9	94	70-130	
Methylene Chloride	ug/L	20	17.8	89	65-124	
Naphthalene	ug/L	20	17.8	89	69-135	
Styrene	ug/L	20	18.5	92	70-130	
Tetrachloroethene	ug/L	20	17.7	89	70-130	
Toluene	ug/L	20	17.7	89	70-130	
trans-1,2-Dichloroethene	ug/L	20	15.5	78	64-123	
trans-1,3-Dichloropropene	ug/L	20	17.9	89	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	19.2	96	37-119	
Trichloroethene	ug/L	20	17.9	90	70-130	
Trichlorofluoromethane	ug/L	20	20.7	103	64-163	
Vinyl acetate	ug/L	20	11.9	59	45-129	
Vinyl chloride	ug/L	20	19.8	99	70-130	
Xylene (Total)	ug/L	60	53.3	89	70-130	
1,2-Dichloroethane-d4 (S)	%.			99	80-120	
4-Bromofluorobenzene (S)	%.			101	78-122	
Dibromofluoromethane (S)	%.			100	80-120	
Toluene-d8 (S)	%.			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770868 1770869

Parameter	Units	30327019009 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	19.8	20.8	99	104	52-123	5	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	17.9	18.6	90	93	67-127	4	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.8	20.1	94	101	55-118	7	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.8	20.4	99	102	60-117	3	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	19.1	19.8	95	99	68-118	4	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	16.7	17.1	83	85	62-126	3	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	19.4	20.5	97	103	56-129	6	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	14.3	15.1	71	76	46-130	6	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	20.3	21.1	101	106	69-124	4	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	19.2	20.8	96	104	66-116	8	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	19.9	20.1	100	101	67-117	1	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	20.8	21.3	104	107	61-128	2	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327286

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770868 1770869

Parameter	Units	30327019009 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	19.6	20.9	98	105	68-116	6	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	18.8	16.5	94	83	63-175	13	30	
2-Hexanone	ug/L	10.0 U	20	20	19.2	18.6	96	93	65-151	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	21.2	20.3	106	101	66-149	4	30	
Acetone	ug/L	10.0 U	20	20	27.2	25.6	136	128	10-175	6	30	
Acrylonitrile	ug/L	4.0 U	20	20	20.5	18.1	102	90	42-165	13	30	
Benzene	ug/L	1780	200	200	1920	1860	70	40	67-119	3	30	ML
Bromochloromethane	ug/L	1.0 U	20	20	22.2	22.9	111	114	64-124	3	30	
Bromodichloromethane	ug/L	1.0 U	20	20	20.2	21.4	101	107	67-126	6	30	
Bromoform	ug/L	1.0 U	20	20	15.1	15.3	75	76	43-114	1	30	
Bromomethane	ug/L	1.0 U	20	20	9.8	9.0	49	45	10-164	8	30	CL
Carbon disulfide	ug/L	1.0 U	20	20	17.9	16.7	90	84	37-135	7	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	17.5	18.0	88	90	60-137	3	30	
Chlorobenzene	ug/L	1.0 U	20	20	20.1	21.0	101	105	68-119	4	30	
Chloroethane	ug/L	1.0 U	20	20	19.2	19.8	96	99	54-169	3	30	
Chloroform	ug/L	1.0 U	20	20	20.5	21.5	103	108	69-113	5	30	
Chloromethane	ug/L	1.0 U	20	20	15.4	15.7	77	78	43-159	2	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.2	20.4	96	102	65-121	6	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	19.3	20.0	97	100	61-120	4	30	
Dibromochloromethane	ug/L	1.0 U	20	20	18.7	19.2	93	96	56-121	3	30	
Dibromomethane	ug/L	1.0 U	20	20	20.6	21.8	103	109	56-133	6	30	
Ethylbenzene	ug/L	3.3	20	20	23.5	24.0	101	103	69-127	2	30	
Iodomethane	ug/L	50.0 U	20	20	12.2J	12.5J	61	62	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	20.6	19.8	103	99	70-130	4	30	
Methylene Chloride	ug/L	1.0 U	20	20	19.6	20.5	98	102	49-144	5	30	
Naphthalene	ug/L	886	200	200	941	906	27	10	60-136	4	30	ML
Styrene	ug/L	1.0	20	20	21.7	22.2	103	106	65-120	2	30	
Tetrachloroethene	ug/L	1.0 U	20	20	19.3	19.8	97	99	64-123	3	30	
Toluene	ug/L	134	20	20	145	144	56	49	70-130	1	30	ML
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.8	18.9	89	94	66-119	6	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	19.2	19.2	96	96	52-117	0	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	14.5	12.0	72	60	13-100	19	30	
Trichloroethene	ug/L	1.0 U	20	20	20.4	21.0	102	105	63-125	3	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	12.9	14.7	65	73	43-186	13	30	
Vinyl acetate	ug/L	1.0 U	20	20	11.4	11.2	57	56	35-150	2	30	
Vinyl chloride	ug/L	1.0 U	20	20	18.1	18.4	91	92	60-133	1	30	
Xylene (Total)	ug/L	42.1	60	60	100	103	97	102	69-128	3	30	
1,2-Dichloroethane-d4 (S)	%.						100	100	80-120			
4-Bromofluorobenzene (S)	%.						102	103	78-122			
Dibromofluoromethane (S)	%.						101	100	80-120			
Toluene-d8 (S)	%.						98	96	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327286

QC Batch: 365113 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30327286009

METHOD BLANK: 1770964 Matrix: Water
Associated Lab Samples: 30327286009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/08/19 11:42	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/08/19 11:42	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/08/19 11:42	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/08/19 11:42	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/08/19 11:42	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/08/19 11:42	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/08/19 11:42	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/08/19 11:42	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/08/19 11:42	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/08/19 11:42	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/08/19 11:42	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/08/19 11:42	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/08/19 11:42	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/08/19 11:42	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/08/19 11:42	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/08/19 11:42	
Acetone	ug/L	10.0 U	10.0	5.6	10/08/19 11:42	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/08/19 11:42	
Benzene	ug/L	1.0 U	1.0	0.34	10/08/19 11:42	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/08/19 11:42	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/08/19 11:42	
Bromoform	ug/L	1.0 U	1.0	0.56	10/08/19 11:42	
Bromomethane	ug/L	1.0 U	1.0	0.73	10/08/19 11:42	CL
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/08/19 11:42	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/08/19 11:42	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/08/19 11:42	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/08/19 11:42	
Chloroform	ug/L	1.0 U	1.0	0.39	10/08/19 11:42	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/08/19 11:42	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/08/19 11:42	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/08/19 11:42	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/08/19 11:42	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/08/19 11:42	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/08/19 11:42	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/08/19 11:42	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/08/19 11:42	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/08/19 11:42	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/08/19 11:42	
Styrene	ug/L	1.0 U	1.0	0.33	10/08/19 11:42	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/08/19 11:42	
Toluene	ug/L	1.0 U	1.0	0.32	10/08/19 11:42	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327286

METHOD BLANK: 1770964 Matrix: Water
Associated Lab Samples: 30327286009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/08/19 11:42	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/08/19 11:42	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/08/19 11:42	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/08/19 11:42	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/08/19 11:42	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/08/19 11:42	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/08/19 11:42	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/08/19 11:42	
1,2-Dichloroethane-d4 (S)	%.	102	80-120		10/08/19 11:42	
4-Bromofluorobenzene (S)	%.	103	78-122		10/08/19 11:42	
Dibromofluoromethane (S)	%.	101	80-120		10/08/19 11:42	
Toluene-d8 (S)	%.	94	80-120		10/08/19 11:42	

LABORATORY CONTROL SAMPLE: 1770965

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	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	70-130	
1,1,2-Trichloroethane	ug/L	20	20.3	102	70-130	
1,1-Dichloroethane	ug/L	20	19.1	95	68-121	
1,1-Dichloroethene	ug/L	20	18.3	92	63-129	
1,2,3-Trichloropropane	ug/L	20	20.0	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.9	95	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.7	104	70-130	
1,2-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	19.7	99	67-117	
1,2-Dichloropropane	ug/L	20	20.7	104	69-121	
1,4-Dichlorobenzene	ug/L	20	20.2	101	70-130	
2-Butanone (MEK)	ug/L	20	19.9	100	59-128	
2-Hexanone	ug/L	20	16.4	82	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.6	98	63-126	
Acetone	ug/L	20	19.9	99	37-150	
Acrylonitrile	ug/L	20	20.5	103	62-128	
Benzene	ug/L	20	21.0	105	70-130	
Bromochloromethane	ug/L	20	23.6	118	59-137	
Bromodichloromethane	ug/L	20	21.1	105	70-130	
Bromoform	ug/L	20	19.0	95	65-130	
Bromomethane	ug/L	20	14.3	71	45-148	CL
Carbon disulfide	ug/L	20	18.0	90	55-123	
Carbon tetrachloride	ug/L	20	20.9	104	69-126	
Chlorobenzene	ug/L	20	21.0	105	70-130	
Chloroethane	ug/L	20	18.3	91	68-146	
Chloroform	ug/L	20	20.4	102	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327286

LABORATORY CONTROL SAMPLE: 1770965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.0	80	56-129	
cis-1,2-Dichloroethene	ug/L	20	19.9	99	66-118	
cis-1,3-Dichloropropene	ug/L	20	20.9	105	70-130	
Dibromochloromethane	ug/L	20	18.3	91	70-130	
Dibromomethane	ug/L	20	20.7	104	70-130	
Ethylbenzene	ug/L	20	20.7	103	70-130	
Iodomethane	ug/L	20	17.5J	87	10-175	
Methyl-tert-butyl ether	ug/L	20	19.3	97	70-130	
Methylene Chloride	ug/L	20	20.1	101	65-124	
Naphthalene	ug/L	20	20.7	104	69-135	
Styrene	ug/L	20	20.6	103	70-130	
Tetrachloroethene	ug/L	20	20.3	102	70-130	
Toluene	ug/L	20	20.4	102	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.7	93	64-123	
trans-1,3-Dichloropropene	ug/L	20	18.9	95	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	20.0	100	37-119	
Trichloroethene	ug/L	20	21.3	107	70-130	
Trichlorofluoromethane	ug/L	20	23.4	117	64-163	
Vinyl acetate	ug/L	20	12.5	62	45-129	
Vinyl chloride	ug/L	20	21.2	106	70-130	
Xylene (Total)	ug/L	60	61.9	103	70-130	
1,2-Dichloroethane-d4 (S)	%.			98	80-120	
4-Bromofluorobenzene (S)	%.			101	78-122	
Dibromofluoromethane (S)	%.			101	80-120	
Toluene-d8 (S)	%.			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770966 1770967

Parameter	Units	30327343001 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	16.3	17.3	81	86	52-123	6	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.7	17.3	88	86	67-127	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.7	16.8	83	84	55-118	1	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.8	17.1	89	85	60-117	4	30	
1,1-Dichloroethane	ug/L	ND	20	20	17.0	17.0	85	85	68-118	0	30	
1,1-Dichloroethene	ug/L	ND	20	20	16.8	16.7	84	83	62-126	1	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	16.3	16.9	82	84	56-129	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	14.8	15.2	74	76	46-130	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.3	17.7	91	88	69-124	3	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	17.7	17.4	89	87	66-116	2	30	
1,2-Dichloroethane	ug/L	ND	20	20	16.9	16.6	85	83	67-117	2	30	
1,2-Dichloropropane	ug/L	ND	20	20	18.2	18.1	91	91	61-128	0	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.0	17.7	90	89	68-116	1	30	
2-Butanone (MEK)	ug/L	ND	20	20	19.5	17.0	97	85	63-175	14	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: COA IM GW Sampling
Pace Project No.: 30327286

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770966 1770967

Parameter	Units	30327343001 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	14.7	14.3	74	72	65-151	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	17.9	17.7	90	88	66-149	1	30	
Acetone	ug/L	ND	20	20	19.0	19.0	95	95	10-175	0	30	
Acrylonitrile	ug/L	ND	20	20	18.9	18.1	94	90	42-165	4	30	
Benzene	ug/L	ND	20	20	25.6	22.2	128	111	67-119	14	30	C8,MH
Bromochloromethane	ug/L	ND	20	20	21.1	20.4	106	102	64-124	3	30	
Bromodichloromethane	ug/L	ND	20	20	17.6	17.4	88	87	67-126	1	30	
Bromoform	ug/L	ND	20	20	14.6	14.4	73	72	43-114	1	30	
Bromomethane	ug/L	ND	20	20	1.9	2.6	10	13	10-164	32	30	CL,R1
Carbon disulfide	ug/L	ND	20	20	16.7	16.1	84	80	37-135	4	30	
Carbon tetrachloride	ug/L	ND	20	20	17.5	17.7	88	89	60-137	1	30	
Chlorobenzene	ug/L	ND	20	20	18.3	17.8	92	89	68-119	3	30	
Chloroethane	ug/L	ND	20	20	15.9	15.8	80	79	54-169	0	30	
Chloroform	ug/L	ND	20	20	17.8	18.2	89	91	69-113	3	30	
Chloromethane	ug/L	ND	20	20	10.5	10.7	53	53	43-159	1	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.4	17.1	87	86	65-121	1	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.7	16.7	83	84	61-120	0	30	
Dibromochloromethane	ug/L	ND	20	20	13.7	14.4	69	72	56-121	5	30	
Dibromomethane	ug/L	ND	20	20	17.9	18.1	89	90	56-133	1	30	
Ethylbenzene	ug/L	ND	20	20	18.6	17.1	93	85	69-127	9	30	
Iodomethane	ug/L	ND	20	20	4.2J	7.8J	21	39	10-152		30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.9	18.1	94	90	70-130	4	30	
Methylene Chloride	ug/L	ND	20	20	17.2	16.7	86	84	49-144	3	30	
Naphthalene	ug/L	ND	20	20	17.8	17.7	89	88	60-136	1	30	
Styrene	ug/L	ND	20	20	18.0	17.4	90	87	65-120	3	30	
Tetrachloroethene	ug/L	ND	20	20	18.1	17.3	90	86	64-123	5	30	
Toluene	ug/L	ND	20	20	22.3	19.9	112	100	70-130	11	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	16.7	16.6	84	83	66-119	1	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	14.8	14.4	74	72	52-117	3	30	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	11.0	10.3	55	51	13-100	7	30	
Trichloroethene	ug/L	ND	20	20	18.6	18.5	93	93	63-125	0	30	
Trichlorofluoromethane	ug/L	ND	20	20	18.8	18.5	94	93	43-186	1	30	
Vinyl acetate	ug/L	ND	20	20	9.9	9.9	50	50	35-150	0	30	
Vinyl chloride	ug/L	ND	20	20	15.3	15.0	76	75	60-133	2	30	
Xylene (Total)	ug/L	ND	60	60	56.7	53.2	94	89	69-128	6	30	
1,2-Dichloroethane-d4 (S)	%.						96	99	80-120			
4-Bromofluorobenzene (S)	%.						99	101	78-122			
Dibromofluoromethane (S)	%.						100	99	80-120			
Toluene-d8 (S)	%.						97	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.: 30327286

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.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
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.: 30327286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30327286001	**trip blank**	EPA 8260B	364978		
30327286002	**COB-MWS**	EPA 8260B	364978		
30327286003	**COC-MWS**	EPA 8260B	364978		
30327286004	**CO103-PZM**	EPA 8260B	364978		
30327286005	**CO101-PZM**	EPA 8260B	364978		
30327286006	**COD-MWS**	EPA 8260B	364978		
30327286007	**CO102-PZM**	EPA 8260B	364978		
30327286008	**COE-MWS**	EPA 8260B	364978		
30327286009	**COA-MWS**	EPA 8260B	365113		

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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
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: 190885M-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

WO#: 30327286
30327286

Requested Analysis Filtered (Y/N)

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	Residue	Pace Project No./ Lab I.D.
trip blank	WT	G			10/1/19			2				X					X		001
COB-MWS	WT	G			10/1/19	0836		3				X					X		002
COC-MWS	WT	G			10/1/19	0913		3				X					X		003
C0103-PZM	WT	G			10/1/19	0953		3				X					X		004
C0101-PZM	WT	G			10/1/19	1005		3				X					X		005
COD-MWS	WT	G			10/1/19	1059		3				X					X		006
C0102-PZM	WT	G			10/1/19	1135		3				X					X		007
COE-MWS	WT	G			10/1/19	1207		3				X					X		008
COA-MWS	WT	G			10/1/19	1254		3				X					X		009
								26											

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 package	Joshua Barnes ARM	10/1/19	1330	ARM/Pace	10/1/19	1630				
no validation	ARM/Pace	10/1/19	2000	RDS/FACE	10-1-19	2005		Y		
	RDS/FACE	10-1-19	2300	Marcus L Clary	10-1-19	2310	.7	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joshua Barnes
SIGNATURE of SAMPLER: Joshua Barnes
DATE Signed (MM/DD/YY): 10/01/19

*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

30327286

Pace Analytical

Client Name: EnviroAnalytics Group Project # _____

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Label MLC
LIMS Login MLC

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Thermometer Used 11 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 1.7 °C Correction Factor: 0 °C Final Temp: 1.7 °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: MLC 10/2/19
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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16.
All containers meet method preservation requirements.	✓			Initial when completed MLC — Date/time of preservation: — Lot # of added preservative:
Headspace in VOA Vials (>6mm):		✓		17. Both Trip Blanks have Headspace >6mm
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad 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 10, 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.: 30327604

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on October 02, 2019. 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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Greensburg, PA 15601
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CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30327604

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
Florida: Cert E871149 SEKS WET
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.: 30327604

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30327604001	**Trip Blanks**	Water	10/02/19 00:01	10/02/19 23:15
30327604002	**COM-MWS**	Water	10/02/19 08:49	10/02/19 23:15
30327604003	**COM-MWI**	Water	10/02/19 09:25	10/02/19 23:15
30327604004	**CO39-PZM007**	Water	10/02/19 10:05	10/02/19 23:15
30327604005	**CO39-PZM042**	Water	10/02/19 10:30	10/02/19 23:15
30327604006	**CO03-PZM005**	Water	10/02/19 11:16	10/02/19 23:15
30327604007	**COT-MWS**	Water	10/02/19 11:54	10/02/19 23:15
30327604008	**CO41-PZM036**	Water	10/02/19 12:43	10/02/19 23:15
30327604009	**CO41-PZM001**	Water	10/02/19 13:22	10/02/19 23:15

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30327604

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30327604001	**Trip Blanks**	EPA 8260B	LEL	53	PASI-PA
30327604002	**COM-MWS**	EPA 8260B	LEL	53	PASI-PA
30327604003	**COM-MWI**	EPA 8260B	LEL	53	PASI-PA
30327604004	**CO39-PZM007**	EPA 8260B	LEL	53	PASI-PA
30327604005	**CO39-PZM042**	EPA 8260B	LEL	53	PASI-PA
30327604006	**CO03-PZM005**	EPA 8260B	LEL	53	PASI-PA
30327604007	**COT-MWS**	EPA 8260B	LEL	53	PASI-PA
30327604008	**CO41-PZM036**	EPA 8260B	LEL	53	PASI-PA
30327604009	**CO41-PZM001**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: Trip Blanks **Lab ID: 30327604001** Collected: 10/02/19 00:01 Received: 10/02/19 23:15 Matrix: Water

Comments: • Trip blanks have headspace >6mm

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	0.55	1		10/08/19 16:28	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 16:28	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/08/19 16:28	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 16:28	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/08/19 16:28	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/08/19 16:28	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/08/19 16:28	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/08/19 16:28	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/08/19 16:28	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 16:28	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 16:28	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/08/19 16:28	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/08/19 16:28	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/08/19 16:28	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/08/19 16:28	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/08/19 16:28	108-10-1	
Acetone	**7.6J**	ug/L	10.0	5.6	1		10/08/19 16:28	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/08/19 16:28	107-13-1	
Benzene	**0.41J**	ug/L	1.0	0.34	1		10/08/19 16:28	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/08/19 16:28	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/08/19 16:28	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/08/19 16:28	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/08/19 16:28	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/08/19 16:28	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/08/19 16:28	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/08/19 16:28	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/08/19 16:28	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/08/19 16:28	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/08/19 16:28	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/08/19 16:28	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/08/19 16:28	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/08/19 16:28	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/08/19 16:28	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/08/19 16:28	1634-04-4	
Methylene Chloride	**1.7**	ug/L	1.0	0.64	1		10/08/19 16:28	75-09-2	
Naphthalene	**1.8J**	ug/L	2.0	0.82	1		10/08/19 16:28	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 16:28	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/08/19 16:28	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		10/08/19 16:28	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 16:28	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/08/19 16:28	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/08/19 16:28	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 16:28	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		10/08/19 16:28	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 16:28	156-59-2	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: Trip Blanks **Lab ID: 30327604001** Collected: 10/02/19 00:01 Received: 10/02/19 23:15 Matrix: Water

Comments: • Trip blanks have headspace >6mm

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	0.29	1		10/08/19 16:28	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		10/08/19 16:28	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/08/19 16:28	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/08/19 16:28	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	78-122		1		10/08/19 16:28	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		10/08/19 16:28	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		1		10/08/19 16:28	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		1		10/08/19 16:28	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: COM-MWS **Lab ID: 30327604002** Collected: 10/02/19 08:49 Received: 10/02/19 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	2.7	5		10/08/19 17:48	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 17:48	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 17:48	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 17:48	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 17:48	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 17:48	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 17:48	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/08/19 17:48	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 17:48	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 17:48	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 17:48	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 17:48	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 17:48	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/08/19 17:48	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/08/19 17:48	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/08/19 17:48	108-10-1	
Acetone	**105**	ug/L	50.0	28.0	5		10/08/19 17:48	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/08/19 17:48	107-13-1	
Benzene	**8000**	ug/L	200	67.6	200		10/08/19 18:13	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 17:48	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 17:48	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/08/19 17:48	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/08/19 17:48	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 17:48	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 17:48	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/08/19 17:48	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 17:48	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 17:48	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 17:48	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/08/19 17:48	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 17:48	74-95-3	
Ethylbenzene	**225**	ug/L	5.0	2.0	5		10/08/19 17:48	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/08/19 17:48	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 17:48	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 17:48	75-09-2	
Naphthalene	**1380**	ug/L	10.0	4.1	5		10/08/19 17:48	91-20-3	
Styrene	**199**	ug/L	5.0	1.6	5		10/08/19 17:48	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 17:48	127-18-4	
Toluene	**4400**	ug/L	200	63.4	200		10/08/19 18:13	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/08/19 17:48	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/08/19 17:48	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 17:48	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 17:48	75-01-4	
Xylene (Total)	**2150**	ug/L	15.0	6.8	5		10/08/19 17:48	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 17:48	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 17:48	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: COM-MWS **Lab ID: 30327604002** Collected: 10/02/19 08:49 Received: 10/02/19 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	1.4	5		10/08/19 17:48	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 17:48	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/08/19 17:48	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		5		10/08/19 17:48	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		5		10/08/19 17:48	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		10/08/19 17:48	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		5		10/08/19 17:48	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: COM-MWI **Lab ID: 30327604003** Collected: 10/02/19 09:25 Received: 10/02/19 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	2.7	5		10/08/19 20:06	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 20:06	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 20:06	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 20:06	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 20:06	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 20:06	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 20:06	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/08/19 20:06	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 20:06	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 20:06	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 20:06	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 20:06	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 20:06	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/08/19 20:06	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/08/19 20:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/08/19 20:06	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/08/19 20:06	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/08/19 20:06	107-13-1	
Benzene	**28500**	ug/L	500	169	500		10/08/19 20:31	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 20:06	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 20:06	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/08/19 20:06	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/08/19 20:06	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 20:06	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 20:06	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/08/19 20:06	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 20:06	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 20:06	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 20:06	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/08/19 20:06	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 20:06	74-95-3	
Ethylbenzene	**373**	ug/L	5.0	2.0	5		10/08/19 20:06	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/08/19 20:06	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 20:06	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 20:06	75-09-2	
Naphthalene	**6280**	ug/L	1000	410	500		10/08/19 20:31	91-20-3	
Styrene	**582**	ug/L	5.0	1.6	5		10/08/19 20:06	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 20:06	127-18-4	
Toluene	**13000**	ug/L	500	158	500		10/08/19 20:31	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/08/19 20:06	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/08/19 20:06	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 20:06	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 20:06	75-01-4	
Xylene (Total)	**2990**	ug/L	15.0	6.8	5		10/08/19 20:06	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 20:06	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 20:06	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: COM-MWI **Lab ID: 30327604003** Collected: 10/02/19 09:25 Received: 10/02/19 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	1.4	5		10/08/19 20:06	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 20:06	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/08/19 20:06	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		10/08/19 20:06	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	80-120		5		10/08/19 20:06	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		10/08/19 20:06	2037-26-5	
Dibromofluoromethane (S)	90	%.	80-120		5		10/08/19 20:06	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: CO39-PZM007 **Lab ID: 30327604004** Collected: 10/02/19 10:05 Received: 10/02/19 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	0.55	1		10/08/19 15:46	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 15:46	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/08/19 15:46	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 15:46	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/08/19 15:46	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/08/19 15:46	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/08/19 15:46	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/08/19 15:46	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/08/19 15:46	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 15:46	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 15:46	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/08/19 15:46	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/08/19 15:46	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/08/19 15:46	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/08/19 15:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/08/19 15:46	108-10-1	
Acetone	**7.2J**	ug/L	10.0	5.6	1		10/08/19 15:46	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/08/19 15:46	107-13-1	
Benzene	**8990**	ug/L	50.0	16.9	50		10/09/19 20:13	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/08/19 15:46	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/08/19 15:46	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/08/19 15:46	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/08/19 15:46	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/08/19 15:46	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/08/19 15:46	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/08/19 15:46	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/08/19 15:46	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/08/19 15:46	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/08/19 15:46	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/08/19 15:46	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/08/19 15:46	74-95-3	
Ethylbenzene	**52.9**	ug/L	1.0	0.40	1		10/08/19 15:46	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/08/19 15:46	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/08/19 15:46	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/08/19 15:46	75-09-2	
Naphthalene	**2770**	ug/L	40.0	16.4	20		10/08/19 16:14	91-20-3	
Styrene	**65.4**	ug/L	1.0	0.33	1		10/08/19 15:46	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/08/19 15:46	127-18-4	
Toluene	**1980**	ug/L	20.0	6.3	20		10/08/19 16:14	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 15:46	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/08/19 15:46	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/08/19 15:46	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 15:46	75-01-4	
Xylene (Total)	**472**	ug/L	3.0	1.4	1		10/08/19 15:46	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 15:46	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 15:46	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: CO39-PZM007 **Lab ID: 30327604004** Collected: 10/02/19 10:05 Received: 10/02/19 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	0.28	1		10/08/19 15:46	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/08/19 15:46	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/08/19 15:46	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		1		10/08/19 15:46	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		1		10/08/19 15:46	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		10/08/19 15:46	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		1		10/08/19 15:46	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: CO39-PZM042 **Lab ID: 30327604005** Collected: 10/02/19 10:30 Received: 10/02/19 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	0.55	1		10/08/19 16:42	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 16:42	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/08/19 16:42	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 16:42	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/08/19 16:42	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/08/19 16:42	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/08/19 16:42	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/08/19 16:42	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/08/19 16:42	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 16:42	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 16:42	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/08/19 16:42	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/08/19 16:42	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/08/19 16:42	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/08/19 16:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/08/19 16:42	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/08/19 16:42	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/08/19 16:42	107-13-1	
Benzene	**20500**	ug/L	100	33.8	100		10/09/19 20:38	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/08/19 16:42	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/08/19 16:42	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/08/19 16:42	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/08/19 16:42	74-83-9	CL
Carbon disulfide	**0.98J**	ug/L	1.0	0.32	1		10/08/19 16:42	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/08/19 16:42	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/08/19 16:42	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/08/19 16:42	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/08/19 16:42	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/08/19 16:42	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/08/19 16:42	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/08/19 16:42	74-95-3	
Ethylbenzene	**165**	ug/L	1.0	0.40	1		10/08/19 16:42	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/08/19 16:42	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/08/19 16:42	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/08/19 16:42	75-09-2	
Naphthalene	**7040**	ug/L	100	41.0	50		10/08/19 17:09	91-20-3	
Styrene	**215**	ug/L	1.0	0.33	1		10/08/19 16:42	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/08/19 16:42	127-18-4	
Toluene	**6380**	ug/L	50.0	15.8	50		10/08/19 17:09	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 16:42	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/08/19 16:42	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/08/19 16:42	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 16:42	75-01-4	
Xylene (Total)	**1430**	ug/L	150	67.5	50		10/08/19 17:09	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 16:42	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 16:42	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: CO39-PZM042 **Lab ID: 30327604005** Collected: 10/02/19 10:30 Received: 10/02/19 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	0.28	1		10/08/19 16:42	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/08/19 16:42	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/08/19 16:42	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		1		10/08/19 16:42	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	80-120		1		10/08/19 16:42	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		10/08/19 16:42	2037-26-5	
Dibromofluoromethane (S)	89	%.	80-120		1		10/08/19 16:42	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: CO03-PZM005 **Lab ID: 30327604006** Collected: 10/02/19 11:16 Received: 10/02/19 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	0.55	1		10/08/19 15:18	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 15:18	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/08/19 15:18	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 15:18	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/08/19 15:18	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/08/19 15:18	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/08/19 15:18	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/08/19 15:18	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/08/19 15:18	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 15:18	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 15:18	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/08/19 15:18	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/08/19 15:18	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/08/19 15:18	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/08/19 15:18	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/08/19 15:18	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/08/19 15:18	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/08/19 15:18	107-13-1	
Benzene	**48.3**	ug/L	1.0	0.34	1		10/08/19 15:18	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/08/19 15:18	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/08/19 15:18	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/08/19 15:18	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/08/19 15:18	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/08/19 15:18	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/08/19 15:18	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/08/19 15:18	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/08/19 15:18	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/08/19 15:18	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/08/19 15:18	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/08/19 15:18	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/08/19 15:18	74-95-3	
Ethylbenzene	**0.74J**	ug/L	1.0	0.40	1		10/08/19 15:18	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/08/19 15:18	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/08/19 15:18	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/08/19 15:18	75-09-2	
Naphthalene	**164**	ug/L	2.0	0.82	1		10/08/19 15:18	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 15:18	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/08/19 15:18	127-18-4	
Toluene	**16.8**	ug/L	1.0	0.32	1		10/08/19 15:18	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 15:18	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/08/19 15:18	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/08/19 15:18	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 15:18	75-01-4	
Xylene (Total)	**5.1**	ug/L	3.0	1.4	1		10/08/19 15:18	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 15:18	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 15:18	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: CO03-PZM005 **Lab ID: 30327604006** Collected: 10/02/19 11:16 Received: 10/02/19 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	0.28	1		10/08/19 15:18	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/08/19 15:18	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/08/19 15:18	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		10/08/19 15:18	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		1		10/08/19 15:18	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		1		10/08/19 15:18	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		10/08/19 15:18	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: COT-MWS **Lab ID: 30327604007** Collected: 10/02/19 11:54 Received: 10/02/19 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	2.7	5		10/08/19 20:56	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 20:56	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 20:56	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 20:56	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 20:56	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 20:56	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 20:56	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/08/19 20:56	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 20:56	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 20:56	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 20:56	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 20:56	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 20:56	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/08/19 20:56	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/08/19 20:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/08/19 20:56	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/08/19 20:56	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/08/19 20:56	107-13-1	
Benzene	**417000**	ug/L	2000	676	2000		10/09/19 21:28	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 20:56	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 20:56	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/08/19 20:56	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/08/19 20:56	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 20:56	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 20:56	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/08/19 20:56	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 20:56	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 20:56	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 20:56	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/08/19 20:56	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 20:56	74-95-3	
Ethylbenzene	**708**	ug/L	5.0	2.0	5		10/08/19 20:56	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/08/19 20:56	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 20:56	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 20:56	75-09-2	
Naphthalene	**138**	ug/L	10.0	4.1	5		10/08/19 20:56	91-20-3	
Styrene	**504**	ug/L	5.0	1.6	5		10/08/19 20:56	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 20:56	127-18-4	
Toluene	**134000**	ug/L	1000	317	1000		10/08/19 21:21	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/08/19 20:56	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/08/19 20:56	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 20:56	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 20:56	75-01-4	
Xylene (Total)	**21800**	ug/L	3000	1350	1000		10/08/19 21:21	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 20:56	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 20:56	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: COT-MWS **Lab ID: 30327604007** Collected: 10/02/19 11:54 Received: 10/02/19 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	1.4	5		10/08/19 20:56	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 20:56	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/08/19 20:56	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		10/08/19 20:56	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%.	80-120		5		10/08/19 20:56	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		5		10/08/19 20:56	2037-26-5	
Dibromofluoromethane (S)	90	%.	80-120		5		10/08/19 20:56	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: CO41-PZM036 **Lab ID: 30327604008** Collected: 10/02/19 12:43 Received: 10/02/19 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	2.7	5		10/08/19 19:17	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 19:17	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 19:17	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 19:17	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 19:17	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 19:17	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 19:17	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/08/19 19:17	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 19:17	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 19:17	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 19:17	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 19:17	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 19:17	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/08/19 19:17	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/08/19 19:17	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/08/19 19:17	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/08/19 19:17	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/08/19 19:17	107-13-1	
Benzene	**225000**	ug/L	1000	338	1000		10/09/19 21:03	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 19:17	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 19:17	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/08/19 19:17	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/08/19 19:17	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 19:17	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 19:17	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/08/19 19:17	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 19:17	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 19:17	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 19:17	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/08/19 19:17	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 19:17	74-95-3	
Ethylbenzene	**919**	ug/L	5.0	2.0	5		10/08/19 19:17	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/08/19 19:17	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 19:17	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 19:17	75-09-2	
Naphthalene	**430**	ug/L	10.0	4.1	5		10/08/19 19:17	91-20-3	
Styrene	**459**	ug/L	5.0	1.6	5		10/08/19 19:17	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 19:17	127-18-4	
Toluene	**81800**	ug/L	500	158	500		10/08/19 19:42	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/08/19 19:17	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/08/19 19:17	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 19:17	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 19:17	75-01-4	
Xylene (Total)	**20600**	ug/L	1500	675	500		10/08/19 19:42	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 19:17	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 19:17	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: CO41-PZM036 **Lab ID: 30327604008** Collected: 10/02/19 12:43 Received: 10/02/19 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	1.4	5		10/08/19 19:17	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 19:17	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/08/19 19:17	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		5		10/08/19 19:17	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	80-120		5		10/08/19 19:17	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		10/08/19 19:17	2037-26-5	
Dibromofluoromethane (S)	89	%.	80-120		5		10/08/19 19:17	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: CO41-PZM001 **Lab ID: 30327604009** Collected: 10/02/19 13:22 Received: 10/02/19 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	0.55	1		10/08/19 17:35	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 17:35	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/08/19 17:35	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 17:35	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/08/19 17:35	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/08/19 17:35	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/08/19 17:35	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/08/19 17:35	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/08/19 17:35	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 17:35	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 17:35	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/08/19 17:35	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/08/19 17:35	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/08/19 17:35	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/08/19 17:35	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/08/19 17:35	108-10-1	
Acetone	**8.2J**	ug/L	10.0	5.6	1		10/08/19 17:35	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/08/19 17:35	107-13-1	
Benzene	**4470**	ug/L	50.0	16.9	50		10/08/19 18:01	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/08/19 17:35	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/08/19 17:35	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/08/19 17:35	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/08/19 17:35	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/08/19 17:35	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/08/19 17:35	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/08/19 17:35	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/08/19 17:35	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/08/19 17:35	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/08/19 17:35	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/08/19 17:35	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/08/19 17:35	74-95-3	
Ethylbenzene	**144**	ug/L	1.0	0.40	1		10/08/19 17:35	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/08/19 17:35	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/08/19 17:35	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/08/19 17:35	75-09-2	
Naphthalene	**103**	ug/L	2.0	0.82	1		10/08/19 17:35	91-20-3	
Styrene	**4.7**	ug/L	1.0	0.33	1		10/08/19 17:35	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/08/19 17:35	127-18-4	
Toluene	**2110**	ug/L	50.0	15.8	50		10/08/19 18:01	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 17:35	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/08/19 17:35	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/08/19 17:35	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 17:35	75-01-4	
Xylene (Total)	**1200**	ug/L	150	67.5	50		10/08/19 18:01	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 17:35	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 17:35	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30327604

Sample: CO41-PZM001 **Lab ID: 30327604009** Collected: 10/02/19 13:22 Received: 10/02/19 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	0.28	1		10/08/19 17:35	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/08/19 17:35	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/08/19 17:35	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%.	78-122		1		10/08/19 17:35	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		1		10/08/19 17:35	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		10/08/19 17:35	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		1		10/08/19 17:35	1868-53-7	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327604

QC Batch: 365113 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30327604003, 30327604004, 30327604005, 30327604006, 30327604007, 30327604008, 30327604009

METHOD BLANK: 1770964 Matrix: Water
Associated Lab Samples: 30327604003, 30327604004, 30327604005, 30327604006, 30327604007, 30327604008, 30327604009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/08/19 11:42	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/08/19 11:42	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/08/19 11:42	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/08/19 11:42	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/08/19 11:42	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/08/19 11:42	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/08/19 11:42	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/08/19 11:42	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/08/19 11:42	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/08/19 11:42	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/08/19 11:42	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/08/19 11:42	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/08/19 11:42	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/08/19 11:42	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/08/19 11:42	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/08/19 11:42	
Acetone	ug/L	10.0 U	10.0	5.6	10/08/19 11:42	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/08/19 11:42	
Benzene	ug/L	1.0 U	1.0	0.34	10/08/19 11:42	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/08/19 11:42	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/08/19 11:42	
Bromoform	ug/L	1.0 U	1.0	0.56	10/08/19 11:42	
Bromomethane	ug/L	1.0 U	1.0	0.73	10/08/19 11:42	CL
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/08/19 11:42	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/08/19 11:42	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/08/19 11:42	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/08/19 11:42	
Chloroform	ug/L	1.0 U	1.0	0.39	10/08/19 11:42	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/08/19 11:42	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/08/19 11:42	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/08/19 11:42	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/08/19 11:42	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/08/19 11:42	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/08/19 11:42	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/08/19 11:42	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/08/19 11:42	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/08/19 11:42	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/08/19 11:42	
Styrene	ug/L	1.0 U	1.0	0.33	10/08/19 11:42	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/08/19 11:42	
Toluene	ug/L	1.0 U	1.0	0.32	10/08/19 11:42	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327604

METHOD BLANK: 1770964 Matrix: Water
Associated Lab Samples: 30327604003, 30327604004, 30327604005, 30327604006, 30327604007, 30327604008, 30327604009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/08/19 11:42	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/08/19 11:42	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/08/19 11:42	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/08/19 11:42	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/08/19 11:42	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/08/19 11:42	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/08/19 11:42	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/08/19 11:42	
1,2-Dichloroethane-d4 (S)	%.	102	80-120		10/08/19 11:42	
4-Bromofluorobenzene (S)	%.	103	78-122		10/08/19 11:42	
Dibromofluoromethane (S)	%.	101	80-120		10/08/19 11:42	
Toluene-d8 (S)	%.	94	80-120		10/08/19 11:42	

LABORATORY CONTROL SAMPLE: 1770965

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	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	70-130	
1,1,2-Trichloroethane	ug/L	20	20.3	102	70-130	
1,1-Dichloroethane	ug/L	20	19.1	95	68-121	
1,1-Dichloroethene	ug/L	20	18.3	92	63-129	
1,2,3-Trichloropropane	ug/L	20	20.0	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.9	95	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.7	104	70-130	
1,2-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	19.7	99	67-117	
1,2-Dichloropropane	ug/L	20	20.7	104	69-121	
1,4-Dichlorobenzene	ug/L	20	20.2	101	70-130	
2-Butanone (MEK)	ug/L	20	19.9	100	59-128	
2-Hexanone	ug/L	20	16.4	82	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.6	98	63-126	
Acetone	ug/L	20	19.9	99	37-150	
Acrylonitrile	ug/L	20	20.5	103	62-128	
Benzene	ug/L	20	21.0	105	70-130	
Bromochloromethane	ug/L	20	23.6	118	59-137	
Bromodichloromethane	ug/L	20	21.1	105	70-130	
Bromoform	ug/L	20	19.0	95	65-130	
Bromomethane	ug/L	20	14.3	71	45-148	CL
Carbon disulfide	ug/L	20	18.0	90	55-123	
Carbon tetrachloride	ug/L	20	20.9	104	69-126	
Chlorobenzene	ug/L	20	21.0	105	70-130	
Chloroethane	ug/L	20	18.3	91	68-146	
Chloroform	ug/L	20	20.4	102	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327604

LABORATORY CONTROL SAMPLE: 1770965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.0	80	56-129	
cis-1,2-Dichloroethene	ug/L	20	19.9	99	66-118	
cis-1,3-Dichloropropene	ug/L	20	20.9	105	70-130	
Dibromochloromethane	ug/L	20	18.3	91	70-130	
Dibromomethane	ug/L	20	20.7	104	70-130	
Ethylbenzene	ug/L	20	20.7	103	70-130	
Iodomethane	ug/L	20	17.5J	87	10-175	
Methyl-tert-butyl ether	ug/L	20	19.3	97	70-130	
Methylene Chloride	ug/L	20	20.1	101	65-124	
Naphthalene	ug/L	20	20.7	104	69-135	
Styrene	ug/L	20	20.6	103	70-130	
Tetrachloroethene	ug/L	20	20.3	102	70-130	
Toluene	ug/L	20	20.4	102	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.7	93	64-123	
trans-1,3-Dichloropropene	ug/L	20	18.9	95	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	20.0	100	37-119	
Trichloroethene	ug/L	20	21.3	107	70-130	
Trichlorofluoromethane	ug/L	20	23.4	117	64-163	
Vinyl acetate	ug/L	20	12.5	62	45-129	
Vinyl chloride	ug/L	20	21.2	106	70-130	
Xylene (Total)	ug/L	60	61.9	103	70-130	
1,2-Dichloroethane-d4 (S)	%.			98	80-120	
4-Bromofluorobenzene (S)	%.			101	78-122	
Dibromofluoromethane (S)	%.			101	80-120	
Toluene-d8 (S)	%.			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770966 1770967

Parameter	Units	30327343001 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	16.3	17.3	81	86	52-123	6	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.7	17.3	88	86	67-127	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.7	16.8	83	84	55-118	1	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.8	17.1	89	85	60-117	4	30	
1,1-Dichloroethane	ug/L	ND	20	20	17.0	17.0	85	85	68-118	0	30	
1,1-Dichloroethene	ug/L	ND	20	20	16.8	16.7	84	83	62-126	1	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	16.3	16.9	82	84	56-129	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	14.8	15.2	74	76	46-130	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.3	17.7	91	88	69-124	3	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	17.7	17.4	89	87	66-116	2	30	
1,2-Dichloroethane	ug/L	ND	20	20	16.9	16.6	85	83	67-117	2	30	
1,2-Dichloropropane	ug/L	ND	20	20	18.2	18.1	91	91	61-128	0	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.0	17.7	90	89	68-116	1	30	
2-Butanone (MEK)	ug/L	ND	20	20	19.5	17.0	97	85	63-175	14	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327604

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770966 1770967

Parameter	Units	30327343001 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	14.7	14.3	74	72	65-151	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	17.9	17.7	90	88	66-149	1	30	
Acetone	ug/L	ND	20	20	19.0	19.0	95	95	10-175	0	30	
Acrylonitrile	ug/L	ND	20	20	18.9	18.1	94	90	42-165	4	30	
Benzene	ug/L	ND	20	20	25.6	22.2	128	111	67-119	14	30	C8,MH
Bromochloromethane	ug/L	ND	20	20	21.1	20.4	106	102	64-124	3	30	
Bromodichloromethane	ug/L	ND	20	20	17.6	17.4	88	87	67-126	1	30	
Bromoform	ug/L	ND	20	20	14.6	14.4	73	72	43-114	1	30	
Bromomethane	ug/L	ND	20	20	1.9	2.6	10	13	10-164	32	30	CL,R1
Carbon disulfide	ug/L	ND	20	20	16.7	16.1	84	80	37-135	4	30	
Carbon tetrachloride	ug/L	ND	20	20	17.5	17.7	88	89	60-137	1	30	
Chlorobenzene	ug/L	ND	20	20	18.3	17.8	92	89	68-119	3	30	
Chloroethane	ug/L	ND	20	20	15.9	15.8	80	79	54-169	0	30	
Chloroform	ug/L	ND	20	20	17.8	18.2	89	91	69-113	3	30	
Chloromethane	ug/L	ND	20	20	10.5	10.7	53	53	43-159	1	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.4	17.1	87	86	65-121	1	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.7	16.7	83	84	61-120	0	30	
Dibromochloromethane	ug/L	ND	20	20	13.7	14.4	69	72	56-121	5	30	
Dibromomethane	ug/L	ND	20	20	17.9	18.1	89	90	56-133	1	30	
Ethylbenzene	ug/L	ND	20	20	18.6	17.1	93	85	69-127	9	30	
Iodomethane	ug/L	ND	20	20	4.2J	7.8J	21	39	10-152		30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.9	18.1	94	90	70-130	4	30	
Methylene Chloride	ug/L	ND	20	20	17.2	16.7	86	84	49-144	3	30	
Naphthalene	ug/L	ND	20	20	17.8	17.7	89	88	60-136	1	30	
Styrene	ug/L	ND	20	20	18.0	17.4	90	87	65-120	3	30	
Tetrachloroethene	ug/L	ND	20	20	18.1	17.3	90	86	64-123	5	30	
Toluene	ug/L	ND	20	20	22.3	19.9	112	100	70-130	11	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	16.7	16.6	84	83	66-119	1	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	14.8	14.4	74	72	52-117	3	30	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	11.0	10.3	55	51	13-100	7	30	
Trichloroethene	ug/L	ND	20	20	18.6	18.5	93	93	63-125	0	30	
Trichlorofluoromethane	ug/L	ND	20	20	18.8	18.5	94	93	43-186	1	30	
Vinyl acetate	ug/L	ND	20	20	9.9	9.9	50	50	35-150	0	30	
Vinyl chloride	ug/L	ND	20	20	15.3	15.0	76	75	60-133	2	30	
Xylene (Total)	ug/L	ND	60	60	56.7	53.2	94	89	69-128	6	30	
1,2-Dichloroethane-d4 (S)	%.						96	99	80-120			
4-Bromofluorobenzene (S)	%.						99	101	78-122			
Dibromofluoromethane (S)	%.						100	99	80-120			
Toluene-d8 (S)	%.						97	97	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327604

QC Batch: 365118 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30327604001, 30327604002

METHOD BLANK: 1770983 Matrix: Water
Associated Lab Samples: 30327604001, 30327604002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/08/19 11:55	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/08/19 11:55	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/08/19 11:55	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/08/19 11:55	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/08/19 11:55	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/08/19 11:55	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/08/19 11:55	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/08/19 11:55	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/08/19 11:55	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/08/19 11:55	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/08/19 11:55	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/08/19 11:55	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/08/19 11:55	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/08/19 11:55	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/08/19 11:55	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/08/19 11:55	
Acetone	ug/L	10.0 U	10.0	5.6	10/08/19 11:55	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/08/19 11:55	
Benzene	ug/L	1.0 U	1.0	0.34	10/08/19 11:55	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/08/19 11:55	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/08/19 11:55	
Bromoform	ug/L	1.0 U	1.0	0.56	10/08/19 11:55	
Bromomethane	ug/L	0.79J	1.0	0.73	10/08/19 11:55	CL
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/08/19 11:55	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/08/19 11:55	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/08/19 11:55	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/08/19 11:55	
Chloroform	ug/L	1.0 U	1.0	0.39	10/08/19 11:55	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/08/19 11:55	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/08/19 11:55	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/08/19 11:55	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/08/19 11:55	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/08/19 11:55	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/08/19 11:55	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/08/19 11:55	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/08/19 11:55	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/08/19 11:55	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/08/19 11:55	
Styrene	ug/L	1.0 U	1.0	0.33	10/08/19 11:55	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/08/19 11:55	
Toluene	ug/L	1.0 U	1.0	0.32	10/08/19 11:55	

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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.: 30327604

METHOD BLANK: 1770983 Matrix: Water
Associated Lab Samples: 30327604001, 30327604002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/08/19 11:55	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/08/19 11:55	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/08/19 11:55	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/08/19 11:55	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/08/19 11:55	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/08/19 11:55	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/08/19 11:55	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/08/19 11:55	
1,2-Dichloroethane-d4 (S)	%.	99	80-120		10/08/19 11:55	
4-Bromofluorobenzene (S)	%.	101	78-122		10/08/19 11:55	
Dibromofluoromethane (S)	%.	99	80-120		10/08/19 11:55	
Toluene-d8 (S)	%.	95	80-120		10/08/19 11:55	

LABORATORY CONTROL SAMPLE: 1770984

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	18.9	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	70-130	
1,1,2-Trichloroethane	ug/L	20	18.7	93	70-130	
1,1-Dichloroethane	ug/L	20	18.7	93	68-121	
1,1-Dichloroethene	ug/L	20	17.7	89	63-129	
1,2,3-Trichloropropane	ug/L	20	19.3	96	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	15.6	78	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.2	101	70-130	
1,2-Dichlorobenzene	ug/L	20	19.3	97	70-130	
1,2-Dichloroethane	ug/L	20	19.3	97	67-117	
1,2-Dichloropropane	ug/L	20	20.0	100	69-121	
1,4-Dichlorobenzene	ug/L	20	19.7	98	70-130	
2-Butanone (MEK)	ug/L	20	18.7	93	59-128	
2-Hexanone	ug/L	20	18.2	91	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.0	100	63-126	
Acetone	ug/L	20	21.0	105	37-150	
Acrylonitrile	ug/L	20	19.8	99	62-128	
Benzene	ug/L	20	19.8	99	70-130	
Bromochloromethane	ug/L	20	21.7	108	59-137	
Bromodichloromethane	ug/L	20	19.8	99	70-130	
Bromoform	ug/L	20	15.5	77	65-130	
Bromomethane	ug/L	20	12.1	61	45-148	CL
Carbon disulfide	ug/L	20	17.6	88	55-123	
Carbon tetrachloride	ug/L	20	20.0	100	69-126	
Chlorobenzene	ug/L	20	20.1	100	70-130	
Chloroethane	ug/L	20	22.3	112	68-146	
Chloroform	ug/L	20	19.8	99	69-116	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327604

LABORATORY CONTROL SAMPLE: 1770984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.7	83	56-129	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	66-118	
cis-1,3-Dichloropropene	ug/L	20	19.1	95	70-130	
Dibromochloromethane	ug/L	20	18.9	95	70-130	
Dibromomethane	ug/L	20	19.9	100	70-130	
Ethylbenzene	ug/L	20	20.6	103	70-130	
Iodomethane	ug/L	20	18.4J	92	10-175	
Methyl-tert-butyl ether	ug/L	20	18.5	93	70-130	
Methylene Chloride	ug/L	20	19.8	99	65-124	
Naphthalene	ug/L	20	18.8	94	69-135	
Styrene	ug/L	20	20.4	102	70-130	
Tetrachloroethene	ug/L	20	20.7	104	70-130	
Toluene	ug/L	20	19.3	96	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	64-123	
trans-1,3-Dichloropropene	ug/L	20	19.2	96	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	15.6	78	37-119	
Trichloroethene	ug/L	20	19.9	100	70-130	
Trichlorofluoromethane	ug/L	20	21.2	106	64-163	
Vinyl acetate	ug/L	20	11.3	56	45-129	
Vinyl chloride	ug/L	20	20.4	102	70-130	
Xylene (Total)	ug/L	60	59.6	99	70-130	
1,2-Dichloroethane-d4 (S)	%.			101	80-120	
4-Bromofluorobenzene (S)	%.			100	78-122	
Dibromofluoromethane (S)	%.			102	80-120	
Toluene-d8 (S)	%.			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770985 1770986

Parameter	Units	30327345002 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	16.9	17.2	85	86	52-123	2	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	16.4	16.9	82	85	67-127	3	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.4	16.8	82	84	55-118	2	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.7	17.2	83	86	60-117	3	30	
1,1-Dichloroethane	ug/L	ND	20	20	16.3	16.5	82	83	68-118	1	30	
1,1-Dichloroethene	ug/L	ND	20	20	16.0	16.2	80	81	62-126	1	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	17.3	17.9	87	90	56-129	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	13.4	13.9	67	69	46-130	4	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	17.7	17.5	89	87	69-124	2	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	16.5	17.1	83	86	66-116	4	30	
1,2-Dichloroethane	ug/L	ND	20	20	16.3	16.8	82	84	67-117	3	30	
1,2-Dichloropropane	ug/L	ND	20	20	17.4	17.2	87	86	61-128	1	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.9	17.6	85	88	68-116	4	30	
2-Butanone (MEK)	ug/L	ND	20	20	15.9	15.7	79	79	63-175	1	30	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30327604

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770985 1770986

Parameter	Units	30327345002 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	18.6	84	93	65-151	10	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	17.2	19.0	86	95	66-149	10	30	
Acetone	ug/L	ND	20	20	27.3	28.9	100	108	10-175	6	30	
Acrylonitrile	ug/L	ND	20	20	17.4	18.9	87	94	42-165	8	30	
Benzene	ug/L	ND	20	20	23.7	21.6	118	108	67-119	9	30	
Bromochloromethane	ug/L	ND	20	20	18.7	19.4	94	97	64-124	3	30	
Bromodichloromethane	ug/L	ND	20	20	17.3	17.5	86	88	67-126	1	30	
Bromoform	ug/L	ND	20	20	12.5	12.8	63	64	43-114	2	30	
Bromomethane	ug/L	ND	20	20	2.3	4.7	9	20	10-164	67	30	CL,ML, R1
Carbon disulfide	ug/L	ND	20	20	14.6	16.5	73	83	37-135	12	30	
Carbon tetrachloride	ug/L	ND	20	20	17.1	17.1	86	85	60-137	0	30	
Chlorobenzene	ug/L	ND	20	20	17.7	17.8	88	89	68-119	1	30	
Chloroethane	ug/L	ND	20	20	17.6	19.6	88	98	54-169	11	30	
Chloroform	ug/L	5.5	20	20	23.0	23.3	87	89	69-113	1	30	
Chloromethane	ug/L	ND	20	20	10.2	10.9	51	55	43-159	6	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	16.0	17.0	80	85	65-121	6	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.9	16.3	79	81	61-120	2	30	
Dibromochloromethane	ug/L	ND	20	20	15.7	16.0	79	80	56-121	2	30	
Dibromomethane	ug/L	ND	20	20	16.9	17.9	85	89	56-133	5	30	
Ethylbenzene	ug/L	ND	20	20	17.6	17.4	88	87	69-127	1	30	
Iodomethane	ug/L	ND	20	20	2.3J	6.5J	11	32	10-152		30	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.6	17.7	78	88	70-130	12	30	
Methylene Chloride	ug/L	ND	20	20	16.7	16.7	83	83	49-144	0	30	
Naphthalene	ug/L	ND	20	20	16.2	16.6	81	83	60-136	3	30	
Styrene	ug/L	ND	20	20	14.5	14.8	73	74	65-120	2	30	
Tetrachloroethene	ug/L	ND	20	20	18.0	17.8	90	89	64-123	1	30	
Toluene	ug/L	ND	20	20	18.4	17.9	92	89	70-130	3	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	15.8	16.0	79	80	66-119	1	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.1	16.1	80	80	52-117	0	30	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	10.8	11.0	54	55	13-100	2	30	
Trichloroethene	ug/L	ND	20	20	17.6	17.6	88	88	63-125	0	30	
Trichlorofluoromethane	ug/L	ND	20	20	16.3	17.2	82	86	43-186	5	30	
Vinyl acetate	ug/L	ND	20	20	9.5	10.1	48	51	35-150	6	30	
Vinyl chloride	ug/L	ND	20	20	15.2	16.2	76	81	60-133	6	30	
Xylene (Total)	ug/L	ND	60	60	52.9	53.2	88	89	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%.						98	99	80-120			
4-Bromofluorobenzene (S)	%.						104	104	78-122			
Dibromofluoromethane (S)	%.						99	100	80-120			
Toluene-d8 (S)	%.						98	98	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.: 30327604

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.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
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.: 30327604

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30327604001	**Trip Blanks**	EPA 8260B	365118		
30327604002	**COM-MWS**	EPA 8260B	365118		
30327604003	**COM-MWI**	EPA 8260B	365113		
30327604004	**CO39-PZM007**	EPA 8260B	365113		
30327604005	**CO39-PZM042**	EPA 8260B	365113		
30327604006	**CO03-PZM005**	EPA 8260B	365113		
30327604007	**COT-MWS**	EPA 8260B	365113		
30327604008	**CO41-PZM036**	EPA 8260B	365113		
30327604009	**CO41-PZM001**	EPA 8260B	365113		

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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:	190275M-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

WO# : 30327604

30327604

Requested Analysis Filtered (Y/N)

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	Resi	Pace Project No./ Lab I.D.
Trip Blanks	WT				10/2/19			2				X				X		001
COM-MW5	WT	G			10/2/19	0854		3				X				X		002
COM-MW1	WT	G			10/2/19	0925		3				X				X		003
C039-PZM007	WT	G			10/2/19	1005		3				X				X		004
C039-PZM042	WT	G			10/2/19	1030		3				X				X		005
C003-PZM005	WT	G			10/2/19	1116		3				X				X		006
COT-MW5	WT	G			10/2/19	1154		3				X				X		007
C041-PZM036	WT	G			10/2/19	1243		3				X				X		008
C041-PZM041	WT	G			10/2/19	1322		3				X				X		009
								26										

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 package	Joshua Barnes ARM	10/2/19	14:30	GMB/PACE	10/02/19	1535				
no validation	GMB/PACE	10/2/19	19:10	RDS PACE	10/2-19	1920		Y		
	RDS PACE	10-2-19	2315	Joshua Barnes	10-2-19	2315	3.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joshua Barnes

SIGNATURE of SAMPLER: Joshua Barnes

DATE Signed (MM/DD/YY): 10/02/19

*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 # 30327604

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label BLM
LIMS Login BLM

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 3.1 °C Correction Factor: 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: BLM 10-3-19

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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.
All containers meet method preservation requirements.	✓			Initial when completed BLM Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):	✓			17. Both Trip Blank vials have
Trip Blank Present:	✓			18. headspace
Trip Blank Custody Seals Present	✓			
Rad 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 16, 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.: 30328317

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on October 07, 2019. 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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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30328317

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
Florida: Cert E871149 SEKS WET
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.: 30328317

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30328317001	**CO100-PZM**	Water	10/07/19 08:49	10/07/19 23:00
30328317002	**CO93-PZM**	Water	10/07/19 09:30	10/07/19 23:00
30328317003	**CO18-PZM006**	Water	10/07/19 10:06	10/07/19 23:00
30328317004	**COU-MWS**	Water	10/07/19 10:53	10/07/19 23:00
30328317005	**COO2-PZM041**	Water	10/07/19 11:38	10/07/19 23:00
30328317006	**COO2-PZM006**	Water	10/07/19 12:20	10/07/19 23:00
30328317007	**COY-MWS**	Water	10/07/19 13:03	10/07/19 23:00
30328317008	**COZ-MWS**	Water	10/07/19 13:52	10/07/19 23:00
30328317009	**COX-MWS**	Water	10/07/19 14:33	10/07/19 23:00
30328317010	**Trip Blank**	Water	10/07/19 00:01	10/07/19 23:00

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30328317

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30328317001	**CO100-PZM**	EPA 8260B	LEL	53	PASI-PA
30328317002	**CO93-PZM**	EPA 8260B	LEL	53	PASI-PA
30328317003	**CO18-PZM006**	EPA 8260B	LEL	53	PASI-PA
30328317004	**COU-MWS**	EPA 8260B	LEL	53	PASI-PA
30328317005	**COO2-PZM041**	EPA 8260B	LEL	53	PASI-PA
30328317006	**COO2-PZM006**	EPA 8260B	LEL	53	PASI-PA
30328317007	**COY-MWS**	EPA 8260B	LEL	53	PASI-PA
30328317008	**COZ-MWS**	EPA 8260B	LEL	53	PASI-PA
30328317009	**COX-MWS**	EPA 8260B	LEL	53	PASI-PA
30328317010	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: CO100-PZM **Lab ID: 30328317001** Collected: 10/07/19 08:49 Received: 10/07/19 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	2.7	5		10/08/19 19:29	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 19:29	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 19:29	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 19:29	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 19:29	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 19:29	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 19:29	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/08/19 19:29	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 19:29	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 19:29	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 19:29	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 19:29	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 19:29	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/08/19 19:29	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/08/19 19:29	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/08/19 19:29	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/08/19 19:29	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/08/19 19:29	107-13-1	
Benzene	**7080**	ug/L	1000	338	1000		10/08/19 19:54	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 19:29	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 19:29	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/08/19 19:29	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/08/19 19:29	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 19:29	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 19:29	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/08/19 19:29	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 19:29	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 19:29	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 19:29	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/08/19 19:29	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 19:29	74-95-3	
Ethylbenzene	**603**	ug/L	5.0	2.0	5		10/08/19 19:29	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/08/19 19:29	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 19:29	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 19:29	75-09-2	
Naphthalene	**1270**	ug/L	10.0	4.1	5		10/08/19 19:29	91-20-3	
Styrene	**2.3J**	ug/L	5.0	1.6	5		10/08/19 19:29	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 19:29	127-18-4	
Toluene	**54.2**	ug/L	5.0	1.6	5		10/08/19 19:29	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/08/19 19:29	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/08/19 19:29	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 19:29	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 19:29	75-01-4	
Xylene (Total)	**268**	ug/L	15.0	6.8	5		10/08/19 19:29	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 19:29	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 19:29	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: CO100-PZM **Lab ID: 30328317001** Collected: 10/07/19 08:49 Received: 10/07/19 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	1.4	5		10/08/19 19:29	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 19:29	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/08/19 19:29	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		10/08/19 19:29	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		5		10/08/19 19:29	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		5		10/08/19 19:29	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		5		10/08/19 19:29	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: CO93-PZM **Lab ID: 30328317002** Collected: 10/07/19 09:30 Received: 10/07/19 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	2.7	5		10/08/19 18:39	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 18:39	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 18:39	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 18:39	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 18:39	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 18:39	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 18:39	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/08/19 18:39	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 18:39	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 18:39	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 18:39	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 18:39	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 18:39	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/08/19 18:39	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/08/19 18:39	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/08/19 18:39	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/08/19 18:39	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/08/19 18:39	107-13-1	
Benzene	**184000**	ug/L	1000	338	1000		10/08/19 19:04	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 18:39	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 18:39	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/08/19 18:39	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/08/19 18:39	74-83-9	CL
Carbon disulfide	**19.5**	ug/L	5.0	1.6	5		10/08/19 18:39	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 18:39	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/08/19 18:39	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 18:39	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 18:39	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 18:39	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/08/19 18:39	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 18:39	74-95-3	
Ethylbenzene	**1350**	ug/L	5.0	2.0	5		10/08/19 18:39	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/08/19 18:39	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 18:39	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 18:39	75-09-2	
Naphthalene	**14100**	ug/L	2000	819	1000		10/08/19 19:04	91-20-3	
Styrene	**1620**	ug/L	5.0	1.6	5		10/08/19 18:39	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 18:39	127-18-4	
Toluene	**64500**	ug/L	1000	317	1000		10/08/19 19:04	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/08/19 18:39	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/08/19 18:39	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 18:39	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 18:39	75-01-4	
Xylene (Total)	**22500**	ug/L	3000	1350	1000		10/08/19 19:04	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 18:39	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 18:39	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: CO93-PZM **Lab ID: 30328317002** Collected: 10/07/19 09:30 Received: 10/07/19 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	1.4	5		10/08/19 18:39	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 18:39	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/08/19 18:39	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%.	78-122		5		10/08/19 18:39	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		5		10/08/19 18:39	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		10/08/19 18:39	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		5		10/08/19 18:39	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: CO18-PZM006 **Lab ID: 30328317003** Collected: 10/07/19 10:06 Received: 10/07/19 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	2.7	5		10/08/19 20:19	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 20:19	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 20:19	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 20:19	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 20:19	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 20:19	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 20:19	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/08/19 20:19	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 20:19	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 20:19	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 20:19	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 20:19	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 20:19	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/08/19 20:19	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/08/19 20:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/08/19 20:19	108-10-1	
Acetone	**66.0**	ug/L	50.0	28.0	5		10/08/19 20:19	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/08/19 20:19	107-13-1	
Benzene	**596000**	ug/L	2000	676	2000		10/08/19 20:44	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/08/19 20:19	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 20:19	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/08/19 20:19	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/08/19 20:19	74-83-9	CL
Carbon disulfide	**2.7J**	ug/L	5.0	1.6	5		10/08/19 20:19	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/08/19 20:19	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/08/19 20:19	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 20:19	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 20:19	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 20:19	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/08/19 20:19	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/08/19 20:19	74-95-3	
Ethylbenzene	**89.5**	ug/L	5.0	2.0	5		10/08/19 20:19	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/08/19 20:19	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/08/19 20:19	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/08/19 20:19	75-09-2	
Naphthalene	**230**	ug/L	10.0	4.1	5		10/08/19 20:19	91-20-3	
Styrene	**10.4**	ug/L	5.0	1.6	5		10/08/19 20:19	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/08/19 20:19	127-18-4	
Toluene	**20000**	ug/L	2000	634	2000		10/08/19 20:44	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/08/19 20:19	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/08/19 20:19	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/08/19 20:19	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 20:19	75-01-4	
Xylene (Total)	**2170**	ug/L	15.0	6.8	5		10/08/19 20:19	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/08/19 20:19	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/08/19 20:19	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: CO18-PZM006 **Lab ID: 30328317003** Collected: 10/07/19 10:06 Received: 10/07/19 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	1.4	5		10/08/19 20:19	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/08/19 20:19	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/08/19 20:19	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		10/08/19 20:19	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%.	80-120		5		10/08/19 20:19	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		10/08/19 20:19	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		10/08/19 20:19	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: COU-MWS **Lab ID: 30328317004** Collected: 10/07/19 10:53 Received: 10/07/19 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	**10.0 U**	ug/L	10.0	5.5	10		10/08/19 21:09	630-20-6	
1,1,1-Trichloroethane	**10.0 U**	ug/L	10.0	3.8	10		10/08/19 21:09	71-55-6	
1,1,2,2-Tetrachloroethane	**10.0 U**	ug/L	10.0	4.7	10		10/08/19 21:09	79-34-5	
1,1,2-Trichloroethane	**10.0 U**	ug/L	10.0	3.3	10		10/08/19 21:09	79-00-5	
1,1-Dichloroethane	**10.0 U**	ug/L	10.0	2.4	10		10/08/19 21:09	75-34-3	
1,1-Dichloroethene	**10.0 U**	ug/L	10.0	2.4	10		10/08/19 21:09	75-35-4	
1,2,3-Trichloropropane	**10.0 U**	ug/L	10.0	5.8	10		10/08/19 21:09	96-18-4	
1,2-Dibromo-3-chloropropane	**50.0 U**	ug/L	50.0	5.5	10		10/08/19 21:09	96-12-8	
1,2-Dibromoethane (EDB)	**10.0 U**	ug/L	10.0	4.4	10		10/08/19 21:09	106-93-4	
1,2-Dichlorobenzene	**10.0 U**	ug/L	10.0	3.8	10		10/08/19 21:09	95-50-1	
1,2-Dichloroethane	**10.0 U**	ug/L	10.0	3.3	10		10/08/19 21:09	107-06-2	
1,2-Dichloropropane	**10.0 U**	ug/L	10.0	2.8	10		10/08/19 21:09	78-87-5	
1,4-Dichlorobenzene	**10.0 U**	ug/L	10.0	4.8	10		10/08/19 21:09	106-46-7	
2-Butanone (MEK)	**100 U**	ug/L	100	15.2	10		10/08/19 21:09	78-93-3	
2-Hexanone	**100 U**	ug/L	100	5.8	10		10/08/19 21:09	591-78-6	
4-Methyl-2-pentanone (MIBK)	**100 U**	ug/L	100	4.2	10		10/08/19 21:09	108-10-1	
Acetone	**100 U**	ug/L	100	56.1	10		10/08/19 21:09	67-64-1	
Acrylonitrile	**40.0 U**	ug/L	40.0	5.5	10		10/08/19 21:09	107-13-1	
Benzene	**353000**	ug/L	2000	676	2000		10/08/19 21:34	71-43-2	
Bromochloromethane	**10.0 U**	ug/L	10.0	4.8	10		10/08/19 21:09	74-97-5	
Bromodichloromethane	**10.0 U**	ug/L	10.0	3.5	10		10/08/19 21:09	75-27-4	
Bromoform	**10.0 U**	ug/L	10.0	5.6	10		10/08/19 21:09	75-25-2	
Bromomethane	**10.0 U**	ug/L	10.0	7.3	10		10/08/19 21:09	74-83-9	CL
Carbon disulfide	**10.0 U**	ug/L	10.0	3.2	10		10/08/19 21:09	75-15-0	
Carbon tetrachloride	**10.0 U**	ug/L	10.0	4.4	10		10/08/19 21:09	56-23-5	
Chlorobenzene	**10.0 U**	ug/L	10.0	2.6	10		10/08/19 21:09	108-90-7	
Chloroethane	**10.0 U**	ug/L	10.0	6.4	10		10/08/19 21:09	75-00-3	
Chloroform	**10.0 U**	ug/L	10.0	3.9	10		10/08/19 21:09	67-66-3	
Chloromethane	**10.0 U**	ug/L	10.0	4.0	10		10/08/19 21:09	74-87-3	
Dibromochloromethane	**10.0 U**	ug/L	10.0	4.3	10		10/08/19 21:09	124-48-1	
Dibromomethane	**10.0 U**	ug/L	10.0	3.4	10		10/08/19 21:09	74-95-3	
Ethylbenzene	**42.3**	ug/L	10.0	4.0	10		10/08/19 21:09	100-41-4	
Iodomethane	**500 U**	ug/L	500	5.2	10		10/08/19 21:09	74-88-4	
Methyl-tert-butyl ether	**10.0 U**	ug/L	10.0	2.5	10		10/08/19 21:09	1634-04-4	
Methylene Chloride	**10.0 U**	ug/L	10.0	6.4	10		10/08/19 21:09	75-09-2	
Naphthalene	**172**	ug/L	20.0	8.2	10		10/08/19 21:09	91-20-3	
Styrene	**5.1J**	ug/L	10.0	3.3	10		10/08/19 21:09	100-42-5	
Tetrachloroethene	**10.0 U**	ug/L	10.0	3.9	10		10/08/19 21:09	127-18-4	
Toluene	**8380**	ug/L	2000	634	2000		10/08/19 21:34	108-88-3	
Trichloroethene	**10.0 U**	ug/L	10.0	2.9	10		10/08/19 21:09	79-01-6	
Trichlorofluoromethane	**10.0 U**	ug/L	10.0	5.1	10		10/08/19 21:09	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	5.7	10		10/08/19 21:09	108-05-4	
Vinyl chloride	**10.0 U**	ug/L	10.0	2.9	10		10/08/19 21:09	75-01-4	
Xylene (Total)	**527**	ug/L	30.0	13.5	10		10/08/19 21:09	1330-20-7	
cis-1,2-Dichloroethene	**10.0 U**	ug/L	10.0	3.8	10		10/08/19 21:09	156-59-2	
cis-1,3-Dichloropropene	**10.0 U**	ug/L	10.0	2.9	10		10/08/19 21:09	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: COU-MWS **Lab ID: 30328317004** Collected: 10/07/19 10:53 Received: 10/07/19 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	**10.0 U**	ug/L	10.0	2.8	10		10/08/19 21:09	156-60-5	
trans-1,3-Dichloropropene	**10.0 U**	ug/L	10.0	3.2	10		10/08/19 21:09	10061-02-6	
trans-1,4-Dichloro-2-butene	**50.0 U**	ug/L	50.0	5.8	10		10/08/19 21:09	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		10		10/08/19 21:09	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		10		10/08/19 21:09	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		10		10/08/19 21:09	2037-26-5	
Dibromofluoromethane (S)	94	%.	80-120		10		10/08/19 21:09	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: COO2-PZM041 **Lab ID: 30328317005** Collected: 10/07/19 11:38 Received: 10/07/19 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	0.55	1		10/08/19 16:56	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 16:56	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/08/19 16:56	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 16:56	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/08/19 16:56	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/08/19 16:56	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/08/19 16:56	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/08/19 16:56	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/08/19 16:56	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 16:56	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/08/19 16:56	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/08/19 16:56	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/08/19 16:56	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/08/19 16:56	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/08/19 16:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/08/19 16:56	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/08/19 16:56	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/08/19 16:56	107-13-1	
Benzene	**686**	ug/L	10.0	3.4	10		10/08/19 17:22	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/08/19 16:56	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/08/19 16:56	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/08/19 16:56	75-25-2	
Bromomethane	**1.1**	ug/L	1.0	0.73	1		10/08/19 16:56	74-83-9	B,CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/08/19 16:56	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/08/19 16:56	56-23-5	
Chlorobenzene	**0.65J**	ug/L	1.0	0.26	1		10/08/19 16:56	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/08/19 16:56	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/08/19 16:56	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/08/19 16:56	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/08/19 16:56	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/08/19 16:56	74-95-3	
Ethylbenzene	**17.6**	ug/L	1.0	0.40	1		10/08/19 16:56	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/08/19 16:56	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/08/19 16:56	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/08/19 16:56	75-09-2	
Naphthalene	**327**	ug/L	2.0	0.82	1		10/08/19 16:56	91-20-3	
Styrene	**0.83J**	ug/L	1.0	0.33	1		10/08/19 16:56	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/08/19 16:56	127-18-4	
Toluene	**35.0**	ug/L	1.0	0.32	1		10/08/19 16:56	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 16:56	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/08/19 16:56	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/08/19 16:56	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 16:56	75-01-4	
Xylene (Total)	**26.4**	ug/L	3.0	1.4	1		10/08/19 16:56	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/08/19 16:56	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/08/19 16:56	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: COO2-PZM041 **Lab ID: 30328317005** Collected: 10/07/19 11:38 Received: 10/07/19 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	0.28	1		10/08/19 16:56	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/08/19 16:56	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/08/19 16:56	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	78-122		1		10/08/19 16:56	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		1		10/08/19 16:56	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		10/08/19 16:56	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		1		10/08/19 16:56	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: COO2-PZM006 **Lab ID: 30328317006** Collected: 10/07/19 12:20 Received: 10/07/19 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	2.7	5		10/15/19 20:05	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 20:05	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 20:05	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 20:05	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 20:05	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 20:05	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 20:05	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/15/19 20:05	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 20:05	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 20:05	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 20:05	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 20:05	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 20:05	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/15/19 20:05	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/15/19 20:05	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/15/19 20:05	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/15/19 20:05	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/15/19 20:05	107-13-1	
Benzene	**143000**	ug/L	1000	338	1000		10/15/19 20:30	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 20:05	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 20:05	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/15/19 20:05	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/15/19 20:05	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 20:05	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 20:05	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/15/19 20:05	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 20:05	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 20:05	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 20:05	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/15/19 20:05	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 20:05	74-95-3	
Ethylbenzene	**257**	ug/L	5.0	2.0	5		10/15/19 20:05	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/15/19 20:05	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 20:05	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 20:05	75-09-2	
Naphthalene	**244**	ug/L	10.0	4.1	5		10/15/19 20:05	91-20-3	
Styrene	**3.8J**	ug/L	5.0	1.6	5		10/15/19 20:05	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 20:05	127-18-4	
Toluene	**144**	ug/L	5.0	1.6	5		10/15/19 20:05	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/15/19 20:05	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/15/19 20:05	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 20:05	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 20:05	75-01-4	
Xylene (Total)	**321**	ug/L	15.0	6.8	5		10/15/19 20:05	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 20:05	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 20:05	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: COO2-PZM006 **Lab ID: 30328317006** Collected: 10/07/19 12:20 Received: 10/07/19 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	1.4	5		10/15/19 20:05	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 20:05	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/15/19 20:05	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		5		10/15/19 20:05	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		5		10/15/19 20:05	17060-07-0	
Toluene-d8 (S)	92	%.	80-120		5		10/15/19 20:05	2037-26-5	
Dibromofluoromethane (S)	90	%.	80-120		5		10/15/19 20:05	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: COY-MWS **Lab ID: 30328317007** Collected: 10/07/19 13:03 Received: 10/07/19 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	2.7	5		10/15/19 17:36	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 17:36	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 17:36	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 17:36	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 17:36	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 17:36	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 17:36	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/15/19 17:36	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 17:36	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 17:36	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 17:36	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 17:36	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 17:36	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/15/19 17:36	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/15/19 17:36	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/15/19 17:36	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/15/19 17:36	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/15/19 17:36	107-13-1	
Benzene	**126000**	ug/L	500	169	500		10/15/19 18:01	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 17:36	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 17:36	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/15/19 17:36	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/15/19 17:36	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 17:36	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 17:36	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/15/19 17:36	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 17:36	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 17:36	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 17:36	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/15/19 17:36	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 17:36	74-95-3	
Ethylbenzene	**288**	ug/L	5.0	2.0	5		10/15/19 17:36	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/15/19 17:36	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 17:36	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 17:36	75-09-2	
Naphthalene	**548**	ug/L	10.0	4.1	5		10/15/19 17:36	91-20-3	
Styrene	**59.8**	ug/L	5.0	1.6	5		10/15/19 17:36	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 17:36	127-18-4	
Toluene	**11500**	ug/L	500	158	500		10/15/19 18:01	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/15/19 17:36	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/15/19 17:36	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 17:36	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 17:36	75-01-4	
Xylene (Total)	**2960**	ug/L	15.0	6.8	5		10/15/19 17:36	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 17:36	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 17:36	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: COY-MWS **Lab ID: 30328317007** Collected: 10/07/19 13:03 Received: 10/07/19 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	1.4	5		10/15/19 17:36	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 17:36	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/15/19 17:36	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		10/15/19 17:36	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		5		10/15/19 17:36	17060-07-0	
Toluene-d8 (S)	105	%.	80-120		5		10/15/19 17:36	2037-26-5	
Dibromofluoromethane (S)	90	%.	80-120		5		10/15/19 17:36	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: COZ-MWS **Lab ID: 30328317008** Collected: 10/07/19 13:52 Received: 10/07/19 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	2.7	5		10/15/19 18:26	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 18:26	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 18:26	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 18:26	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 18:26	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 18:26	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 18:26	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/15/19 18:26	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 18:26	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 18:26	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 18:26	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 18:26	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 18:26	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/15/19 18:26	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/15/19 18:26	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/15/19 18:26	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/15/19 18:26	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/15/19 18:26	107-13-1	
Benzene	**72900**	ug/L	500	169	500		10/15/19 18:51	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 18:26	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 18:26	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/15/19 18:26	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/15/19 18:26	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 18:26	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 18:26	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/15/19 18:26	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 18:26	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 18:26	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 18:26	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/15/19 18:26	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 18:26	74-95-3	
Ethylbenzene	**221**	ug/L	5.0	2.0	5		10/15/19 18:26	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/15/19 18:26	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 18:26	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 18:26	75-09-2	
Naphthalene	**301**	ug/L	10.0	4.1	5		10/15/19 18:26	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 18:26	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 18:26	127-18-4	
Toluene	**2470**	ug/L	500	158	500		10/15/19 18:51	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/15/19 18:26	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/15/19 18:26	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 18:26	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 18:26	75-01-4	
Xylene (Total)	**475**	ug/L	15.0	6.8	5		10/15/19 18:26	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 18:26	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 18:26	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: COZ-MWS **Lab ID: 30328317008** Collected: 10/07/19 13:52 Received: 10/07/19 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	1.4	5		10/15/19 18:26	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 18:26	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/15/19 18:26	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		5		10/15/19 18:26	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	80-120		5		10/15/19 18:26	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		5		10/15/19 18:26	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		5		10/15/19 18:26	1868-53-7	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: COX-MWS **Lab ID: 30328317009** Collected: 10/07/19 14:33 Received: 10/07/19 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	2.7	5		10/15/19 19:16	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 19:16	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 19:16	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 19:16	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 19:16	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 19:16	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 19:16	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/15/19 19:16	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 19:16	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 19:16	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 19:16	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 19:16	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 19:16	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/15/19 19:16	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/15/19 19:16	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/15/19 19:16	108-10-1	
Acetone	**42.8J**	ug/L	50.0	28.0	5		10/15/19 19:16	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/15/19 19:16	107-13-1	
Benzene	**588000**	ug/L	5000	1690	5000		10/16/19 13:18	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 19:16	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 19:16	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/15/19 19:16	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/15/19 19:16	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 19:16	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 19:16	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/15/19 19:16	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 19:16	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 19:16	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 19:16	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/15/19 19:16	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 19:16	74-95-3	
Ethylbenzene	**63.8**	ug/L	5.0	2.0	5		10/15/19 19:16	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/15/19 19:16	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 19:16	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 19:16	75-09-2	
Naphthalene	**231**	ug/L	10.0	4.1	5		10/15/19 19:16	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 19:16	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 19:16	127-18-4	
Toluene	**44700**	ug/L	500	158	500		10/15/19 19:41	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/15/19 19:16	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/15/19 19:16	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 19:16	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 19:16	75-01-4	
Xylene (Total)	**1530**	ug/L	15.0	6.8	5		10/15/19 19:16	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 19:16	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 19:16	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: COX-MWS **Lab ID: 30328317009** Collected: 10/07/19 14:33 Received: 10/07/19 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	1.4	5		10/15/19 19:16	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 19:16	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/15/19 19:16	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		5		10/15/19 19:16	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		5		10/15/19 19:16	17060-07-0	
Toluene-d8 (S)	101	%.	80-120		5		10/15/19 19:16	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		5		10/15/19 19:16	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: Trip Blank **Lab ID: 30328317010** Collected: 10/07/19 00:01 Received: 10/07/19 23:00 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	0.55	1		10/15/19 14:41	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 14:41	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/15/19 14:41	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 14:41	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/15/19 14:41	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/15/19 14:41	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/15/19 14:41	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.55	1		10/15/19 14:41	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/15/19 14:41	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 14:41	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 14:41	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/15/19 14:41	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/15/19 14:41	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1.5	1		10/15/19 14:41	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.58	1		10/15/19 14:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.42	1		10/15/19 14:41	108-10-1	
Acetone	ND	ug/L	5.0	5.6	1		10/15/19 14:41	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/15/19 14:41	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		10/15/19 14:41	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/15/19 14:41	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/15/19 14:41	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/15/19 14:41	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/15/19 14:41	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 14:41	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/15/19 14:41	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/15/19 14:41	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/15/19 14:41	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/15/19 14:41	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/15/19 14:41	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/15/19 14:41	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/15/19 14:41	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/15/19 14:41	100-41-4	
Iodomethane	ND	ug/L	1.0	0.52	1		10/15/19 14:41	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/15/19 14:41	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/15/19 14:41	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		10/15/19 14:41	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 14:41	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/15/19 14:41	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 14:41	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 14:41	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/15/19 14:41	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.57	1		10/15/19 14:41	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 14:41	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.4	1		10/15/19 14:41	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 14:41	156-59-2	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328317

Sample: Trip Blank **Lab ID: 30328317010** Collected: 10/07/19 00:01 Received: 10/07/19 23:00 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	0.29	1		10/15/19 14:41	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		10/15/19 14:41	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 14:41	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.58	1		10/15/19 14:41	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		10/15/19 14:41	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		10/15/19 14:41	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		10/15/19 14:41	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		1		10/15/19 14:41	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30328317

QC Batch: 365118 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30328317001, 30328317002, 30328317003, 30328317004, 30328317005

METHOD BLANK: 1770983 Matrix: Water
Associated Lab Samples: 30328317001, 30328317002, 30328317003, 30328317004, 30328317005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/08/19 11:55	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/08/19 11:55	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/08/19 11:55	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/08/19 11:55	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/08/19 11:55	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/08/19 11:55	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/08/19 11:55	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/08/19 11:55	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/08/19 11:55	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/08/19 11:55	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/08/19 11:55	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/08/19 11:55	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/08/19 11:55	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/08/19 11:55	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/08/19 11:55	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/08/19 11:55	
Acetone	ug/L	10.0 U	10.0	5.6	10/08/19 11:55	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/08/19 11:55	
Benzene	ug/L	1.0 U	1.0	0.34	10/08/19 11:55	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/08/19 11:55	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/08/19 11:55	
Bromoform	ug/L	1.0 U	1.0	0.56	10/08/19 11:55	
Bromomethane	ug/L	0.79J	1.0	0.73	10/08/19 11:55	CL
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/08/19 11:55	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/08/19 11:55	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/08/19 11:55	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/08/19 11:55	
Chloroform	ug/L	1.0 U	1.0	0.39	10/08/19 11:55	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/08/19 11:55	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/08/19 11:55	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/08/19 11:55	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/08/19 11:55	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/08/19 11:55	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/08/19 11:55	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/08/19 11:55	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/08/19 11:55	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/08/19 11:55	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/08/19 11:55	
Styrene	ug/L	1.0 U	1.0	0.33	10/08/19 11:55	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/08/19 11:55	
Toluene	ug/L	1.0 U	1.0	0.32	10/08/19 11:55	

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.: 30328317

METHOD BLANK: 1770983 Matrix: Water
Associated Lab Samples: 30328317001, 30328317002, 30328317003, 30328317004, 30328317005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/08/19 11:55	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/08/19 11:55	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/08/19 11:55	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/08/19 11:55	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/08/19 11:55	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/08/19 11:55	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/08/19 11:55	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/08/19 11:55	
1,2-Dichloroethane-d4 (S)	%.	99	80-120		10/08/19 11:55	
4-Bromofluorobenzene (S)	%.	101	78-122		10/08/19 11:55	
Dibromofluoromethane (S)	%.	99	80-120		10/08/19 11:55	
Toluene-d8 (S)	%.	95	80-120		10/08/19 11:55	

LABORATORY CONTROL SAMPLE: 1770984

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	18.9	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	70-130	
1,1,2-Trichloroethane	ug/L	20	18.7	93	70-130	
1,1-Dichloroethane	ug/L	20	18.7	93	68-121	
1,1-Dichloroethene	ug/L	20	17.7	89	63-129	
1,2,3-Trichloropropane	ug/L	20	19.3	96	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	15.6	78	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.2	101	70-130	
1,2-Dichlorobenzene	ug/L	20	19.3	97	70-130	
1,2-Dichloroethane	ug/L	20	19.3	97	67-117	
1,2-Dichloropropane	ug/L	20	20.0	100	69-121	
1,4-Dichlorobenzene	ug/L	20	19.7	98	70-130	
2-Butanone (MEK)	ug/L	20	18.7	93	59-128	
2-Hexanone	ug/L	20	18.2	91	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.0	100	63-126	
Acetone	ug/L	20	21.0	105	37-150	
Acrylonitrile	ug/L	20	19.8	99	62-128	
Benzene	ug/L	20	19.8	99	70-130	
Bromochloromethane	ug/L	20	21.7	108	59-137	
Bromodichloromethane	ug/L	20	19.8	99	70-130	
Bromoform	ug/L	20	15.5	77	65-130	
Bromomethane	ug/L	20	12.1	61	45-148	CL
Carbon disulfide	ug/L	20	17.6	88	55-123	
Carbon tetrachloride	ug/L	20	20.0	100	69-126	
Chlorobenzene	ug/L	20	20.1	100	70-130	
Chloroethane	ug/L	20	22.3	112	68-146	
Chloroform	ug/L	20	19.8	99	69-116	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30328317

LABORATORY CONTROL SAMPLE: 1770984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.7	83	56-129	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	66-118	
cis-1,3-Dichloropropene	ug/L	20	19.1	95	70-130	
Dibromochloromethane	ug/L	20	18.9	95	70-130	
Dibromomethane	ug/L	20	19.9	100	70-130	
Ethylbenzene	ug/L	20	20.6	103	70-130	
Iodomethane	ug/L	20	18.4J	92	10-175	
Methyl-tert-butyl ether	ug/L	20	18.5	93	70-130	
Methylene Chloride	ug/L	20	19.8	99	65-124	
Naphthalene	ug/L	20	18.8	94	69-135	
Styrene	ug/L	20	20.4	102	70-130	
Tetrachloroethene	ug/L	20	20.7	104	70-130	
Toluene	ug/L	20	19.3	96	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	64-123	
trans-1,3-Dichloropropene	ug/L	20	19.2	96	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	15.6	78	37-119	
Trichloroethene	ug/L	20	19.9	100	70-130	
Trichlorofluoromethane	ug/L	20	21.2	106	64-163	
Vinyl acetate	ug/L	20	11.3	56	45-129	
Vinyl chloride	ug/L	20	20.4	102	70-130	
Xylene (Total)	ug/L	60	59.6	99	70-130	
1,2-Dichloroethane-d4 (S)	%.			101	80-120	
4-Bromofluorobenzene (S)	%.			100	78-122	
Dibromofluoromethane (S)	%.			102	80-120	
Toluene-d8 (S)	%.			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770985 1770986

Parameter	Units	30327345002 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	16.9	17.2	85	86	52-123	2	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	16.4	16.9	82	85	67-127	3	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.4	16.8	82	84	55-118	2	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.7	17.2	83	86	60-117	3	30	
1,1-Dichloroethane	ug/L	ND	20	20	16.3	16.5	82	83	68-118	1	30	
1,1-Dichloroethene	ug/L	ND	20	20	16.0	16.2	80	81	62-126	1	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	17.3	17.9	87	90	56-129	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	13.4	13.9	67	69	46-130	4	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	17.7	17.5	89	87	69-124	2	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	16.5	17.1	83	86	66-116	4	30	
1,2-Dichloroethane	ug/L	ND	20	20	16.3	16.8	82	84	67-117	3	30	
1,2-Dichloropropane	ug/L	ND	20	20	17.4	17.2	87	86	61-128	1	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.9	17.6	85	88	68-116	4	30	
2-Butanone (MEK)	ug/L	ND	20	20	15.9	15.7	79	79	63-175	1	30	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30328317

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770985 1770986

Parameter	Units	30327345002 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	18.6	84	93	65-151	10	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	17.2	19.0	86	95	66-149	10	30	
Acetone	ug/L	ND	20	20	27.3	28.9	100	108	10-175	6	30	
Acrylonitrile	ug/L	ND	20	20	17.4	18.9	87	94	42-165	8	30	
Benzene	ug/L	ND	20	20	23.7	21.6	118	108	67-119	9	30	
Bromochloromethane	ug/L	ND	20	20	18.7	19.4	94	97	64-124	3	30	
Bromodichloromethane	ug/L	ND	20	20	17.3	17.5	86	88	67-126	1	30	
Bromoform	ug/L	ND	20	20	12.5	12.8	63	64	43-114	2	30	
Bromomethane	ug/L	ND	20	20	2.3	4.7	9	20	10-164	67	30	CL,ML, R1
Carbon disulfide	ug/L	ND	20	20	14.6	16.5	73	83	37-135	12	30	
Carbon tetrachloride	ug/L	ND	20	20	17.1	17.1	86	85	60-137	0	30	
Chlorobenzene	ug/L	ND	20	20	17.7	17.8	88	89	68-119	1	30	
Chloroethane	ug/L	ND	20	20	17.6	19.6	88	98	54-169	11	30	
Chloroform	ug/L	5.5	20	20	23.0	23.3	87	89	69-113	1	30	
Chloromethane	ug/L	ND	20	20	10.2	10.9	51	55	43-159	6	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	16.0	17.0	80	85	65-121	6	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.9	16.3	79	81	61-120	2	30	
Dibromochloromethane	ug/L	ND	20	20	15.7	16.0	79	80	56-121	2	30	
Dibromomethane	ug/L	ND	20	20	16.9	17.9	85	89	56-133	5	30	
Ethylbenzene	ug/L	ND	20	20	17.6	17.4	88	87	69-127	1	30	
Iodomethane	ug/L	ND	20	20	2.3J	6.5J	11	32	10-152		30	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.6	17.7	78	88	70-130	12	30	
Methylene Chloride	ug/L	ND	20	20	16.7	16.7	83	83	49-144	0	30	
Naphthalene	ug/L	ND	20	20	16.2	16.6	81	83	60-136	3	30	
Styrene	ug/L	ND	20	20	14.5	14.8	73	74	65-120	2	30	
Tetrachloroethene	ug/L	ND	20	20	18.0	17.8	90	89	64-123	1	30	
Toluene	ug/L	ND	20	20	18.4	17.9	92	89	70-130	3	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	15.8	16.0	79	80	66-119	1	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.1	16.1	80	80	52-117	0	30	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	10.8	11.0	54	55	13-100	2	30	
Trichloroethene	ug/L	ND	20	20	17.6	17.6	88	88	63-125	0	30	
Trichlorofluoromethane	ug/L	ND	20	20	16.3	17.2	82	86	43-186	5	30	
Vinyl acetate	ug/L	ND	20	20	9.5	10.1	48	51	35-150	6	30	
Vinyl chloride	ug/L	ND	20	20	15.2	16.2	76	81	60-133	6	30	
Xylene (Total)	ug/L	ND	60	60	52.9	53.2	88	89	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%.						98	99	80-120			
4-Bromofluorobenzene (S)	%.						104	104	78-122			
Dibromofluoromethane (S)	%.						99	100	80-120			
Toluene-d8 (S)	%.						98	98	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30328317

QC Batch: 366218 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30328317006, 30328317007, 30328317008, 30328317009, 30328317010

METHOD BLANK: 1776357 Matrix: Water
Associated Lab Samples: 30328317006, 30328317007, 30328317008, 30328317009, 30328317010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/15/19 14:16	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/15/19 14:16	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/15/19 14:16	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/15/19 14:16	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/15/19 14:16	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/15/19 14:16	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/15/19 14:16	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/15/19 14:16	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/15/19 14:16	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/15/19 14:16	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/15/19 14:16	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/15/19 14:16	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/15/19 14:16	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/15/19 14:16	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/15/19 14:16	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/15/19 14:16	
Acetone	ug/L	10.0 U	10.0	5.6	10/15/19 14:16	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/15/19 14:16	
Benzene	ug/L	1.0 U	1.0	0.34	10/15/19 14:16	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/15/19 14:16	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/15/19 14:16	
Bromoform	ug/L	1.0 U	1.0	0.56	10/15/19 14:16	
Bromomethane	ug/L	1.0 U	1.0	0.73	10/15/19 14:16	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/15/19 14:16	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/15/19 14:16	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/15/19 14:16	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/15/19 14:16	
Chloroform	ug/L	1.0 U	1.0	0.39	10/15/19 14:16	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/15/19 14:16	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/15/19 14:16	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/15/19 14:16	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/15/19 14:16	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/15/19 14:16	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/15/19 14:16	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/15/19 14:16	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/15/19 14:16	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/15/19 14:16	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/15/19 14:16	
Styrene	ug/L	1.0 U	1.0	0.33	10/15/19 14:16	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/15/19 14:16	
Toluene	ug/L	1.0 U	1.0	0.32	10/15/19 14:16	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30328317

METHOD BLANK: 1776357 Matrix: Water
Associated Lab Samples: 30328317006, 30328317007, 30328317008, 30328317009, 30328317010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/15/19 14:16	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/15/19 14:16	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/15/19 14:16	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/15/19 14:16	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/15/19 14:16	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/15/19 14:16	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/15/19 14:16	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/15/19 14:16	
1,2-Dichloroethane-d4 (S)	%.	100	80-120		10/15/19 14:16	
4-Bromofluorobenzene (S)	%.	99	78-122		10/15/19 14:16	
Dibromofluoromethane (S)	%.	98	80-120		10/15/19 14:16	
Toluene-d8 (S)	%.	97	80-120		10/15/19 14:16	

LABORATORY CONTROL SAMPLE: 1776358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.0	105	70-130	
1,1,1-Trichloroethane	ug/L	20	18.3	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.8	104	70-130	
1,1,2-Trichloroethane	ug/L	20	21.9	110	70-130	
1,1-Dichloroethane	ug/L	20	18.7	93	68-121	
1,1-Dichloroethene	ug/L	20	17.9	89	63-129	
1,2,3-Trichloropropane	ug/L	20	20.2	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.7	89	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	22.8	114	70-130	
1,2-Dichlorobenzene	ug/L	20	20.5	103	70-130	
1,2-Dichloroethane	ug/L	20	19.2	96	67-117	
1,2-Dichloropropane	ug/L	20	21.2	106	69-121	
1,4-Dichlorobenzene	ug/L	20	21.0	105	70-130	
2-Butanone (MEK)	ug/L	20	20.5	103	59-128	
2-Hexanone	ug/L	20	17.0	85	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.8	104	63-126	
Acetone	ug/L	20	18.5	93	37-150	
Acrylonitrile	ug/L	20	20.5	102	62-128	
Benzene	ug/L	20	20.4	102	70-130	
Bromochloromethane	ug/L	20	23.8	119	59-137	
Bromodichloromethane	ug/L	20	20.8	104	70-130	
Bromoform	ug/L	20	18.2	91	65-130	
Bromomethane	ug/L	20	19.2	96	45-148	
Carbon disulfide	ug/L	20	18.6	93	55-123	
Carbon tetrachloride	ug/L	20	18.8	94	69-126	
Chlorobenzene	ug/L	20	21.0	105	70-130	
Chloroethane	ug/L	20	22.0	110	68-146	
Chloroform	ug/L	20	20.0	100	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30328317

LABORATORY CONTROL SAMPLE: 1776358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	18.7	93	56-129	
cis-1,2-Dichloroethene	ug/L	20	19.5	97	66-118	
cis-1,3-Dichloropropene	ug/L	20	21.1	105	70-130	
Dibromochloromethane	ug/L	20	18.5	92	70-130	
Dibromomethane	ug/L	20	21.2	106	70-130	
Ethylbenzene	ug/L	20	20.7	104	70-130	
Iodomethane	ug/L	20	12.6J	63	10-175	
Methyl-tert-butyl ether	ug/L	20	20.9	104	70-130	
Methylene Chloride	ug/L	20	20.0	100	65-124	
Naphthalene	ug/L	20	21.1	105	69-135	
Styrene	ug/L	20	21.3	106	70-130	
Tetrachloroethene	ug/L	20	19.0	95	70-130	
Toluene	ug/L	20	20.3	102	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.0	90	64-123	
trans-1,3-Dichloropropene	ug/L	20	18.9	94	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	16.3	81	37-119	
Trichloroethene	ug/L	20	19.7	99	70-130	
Trichlorofluoromethane	ug/L	20	23.9	120	64-163	
Vinyl acetate	ug/L	20	16.0	80	45-129	
Vinyl chloride	ug/L	20	23.5	118	70-130	
Xylene (Total)	ug/L	60	60.9	101	70-130	
1,2-Dichloroethane-d4 (S)	%.			93	80-120	
4-Bromofluorobenzene (S)	%.			100	78-122	
Dibromofluoromethane (S)	%.			97	80-120	
Toluene-d8 (S)	%.			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1776359 1776360

Parameter	Units	30328609008 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	10.0 U	200	200	157	170	78	85	52-123	8	30	
1,1,1-Trichloroethane	ug/L	10.0 U	200	200	144	154	72	77	67-127	6	30	
1,1,2,2-Tetrachloroethane	ug/L	10.0 U	200	200	162	175	81	87	55-118	7	30	
1,1,2-Trichloroethane	ug/L	10.0 U	200	200	167	179	83	89	60-117	7	30	
1,1-Dichloroethane	ug/L	10.0 U	200	200	138	148	69	74	68-118	7	30	
1,1-Dichloroethene	ug/L	10.0 U	200	200	143	144	72	72	62-126	1	30	
1,2,3-Trichloropropane	ug/L	10.0 U	200	200	157	168	79	84	56-129	7	30	
1,2-Dibromo-3-chloropropane	ug/L	50.0 U	200	200	132	138	66	69	46-130	4	30	
1,2-Dibromoethane (EDB)	ug/L	10.0 U	200	200	174	185	87	93	69-124	6	30	
1,2-Dichlorobenzene	ug/L	10.0 U	200	200	153	177	77	88	66-116	14	30	
1,2-Dichloroethane	ug/L	10.0 U	200	200	156	160	78	80	67-117	2	30	
1,2-Dichloropropane	ug/L	10.0 U	200	200	168	175	84	88	61-128	4	30	
1,4-Dichlorobenzene	ug/L	10.0 U	200	200	165	177	82	89	68-116	7	30	
2-Butanone (MEK)	ug/L	100 U	200	200	176	148	88	74	63-175	17	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: COA IM GW Sampling
Pace Project No.: 30328317

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1776359 1776360

Parameter	Units	30328609008 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	100 U	200	200	137	129	68	65	65-151	6	30	
4-Methyl-2-pentanone (MIBK)	ug/L	100 U	200	200	153	156	76	78	66-149	2	30	
Acetone	ug/L	100 U	200	200	173	166	70	66	10-175	4	30	
Acrylonitrile	ug/L	40.0 U	200	200	146	142	73	71	42-165	3	30	
Benzene	ug/L	1230	200	200	1470	1470	121	121	67-119	0	30	MH
Bromochloromethane	ug/L	10.0 U	200	200	180	198	90	99	64-124	10	30	
Bromodichloromethane	ug/L	10.0 U	200	200	155	165	78	82	67-126	6	30	
Bromoform	ug/L	10.0 U	200	200	132	153	66	77	43-114	15	30	
Bromomethane	ug/L	10.0 U	200	200	54.2	64.8	27	32	10-164	18	30	
Carbon disulfide	ug/L	10.0 U	200	200	138	135	69	68	37-135	2	30	
Carbon tetrachloride	ug/L	10.0 U	200	200	139	151	70	76	60-137	9	30	
Chlorobenzene	ug/L	10.0 U	200	200	167	182	84	91	68-119	9	30	
Chloroethane	ug/L	10.0 U	200	200	213	216	107	108	54-169	1	30	
Chloroform	ug/L	10.0 U	200	200	152	169	76	85	69-113	11	30	
Chloromethane	ug/L	10.0 U	200	200	141	159	70	80	43-159	12	30	
cis-1,2-Dichloroethene	ug/L	10.0 U	200	200	148	161	74	80	65-121	8	30	
cis-1,3-Dichloropropene	ug/L	10.0 U	200	200	146	153	73	77	61-120	5	30	
Dibromochloromethane	ug/L	10.0 U	200	200	135	147	68	74	56-121	8	30	
Dibromomethane	ug/L	10.0 U	200	200	164	171	82	85	56-133	4	30	
Ethylbenzene	ug/L	52.4	200	200	215	227	81	87	69-127	5	30	
Iodomethane	ug/L	500 U	200	200	129J	201J	64	100	10-152		30	
Methyl-tert-butyl ether	ug/L	10.0 U	200	200	159	153	79	77	70-130	3	30	
Methylene Chloride	ug/L	10.0 U	200	200	160	161	80	81	49-144	1	30	
Naphthalene	ug/L	2010	200	200	2230	2280	109	133	60-136	2	30	
Styrene	ug/L	117	200	200	296	308	89	96	65-120	4	30	
Tetrachloroethene	ug/L	10.0 U	200	200	146	148	73	74	64-123	2	30	
Toluene	ug/L	1100	200	200	1280	1200	91	51	70-130	6	30	ML
trans-1,2-Dichloroethene	ug/L	10.0 U	200	200	139	140	70	70	66-119	1	30	
trans-1,3-Dichloropropene	ug/L	10.0 U	200	200	139	149	70	74	52-117	7	30	
trans-1,4-Dichloro-2-butene	ug/L	50.0 U	200	200	79.3	83.8	40	42	13-100	6	30	
Trichloroethene	ug/L	10.0 U	200	200	158	167	79	84	63-125	6	30	
Trichlorofluoromethane	ug/L	10.0 U	200	200	224	225	112	113	43-186	0	30	
Vinyl acetate	ug/L	10.0 U	200	200	132	134	66	67	35-150	2	30	
Vinyl chloride	ug/L	10.0 U	200	200	205	216	103	108	60-133	5	30	
Xylene (Total)	ug/L	597	600	600	1100	1150	83	93	69-128	5	30	
1,2-Dichloroethane-d4 (S)	%.						94	96	80-120			
4-Bromofluorobenzene (S)	%.						100	105	78-122			
Dibromofluoromethane (S)	%.						92	97	80-120			
Toluene-d8 (S)	%.						98	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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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30328317

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.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
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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(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30328317

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30328317001	**CO100-PZM**	EPA 8260B	365118		
30328317002	**CO93-PZM**	EPA 8260B	365118		
30328317003	**CO18-PZM006**	EPA 8260B	365118		
30328317004	**COU-MWS**	EPA 8260B	365118		
30328317005	**COO2-PZM041**	EPA 8260B	365118		
30328317006	**COO2-PZM006**	EPA 8260B	366218		
30328317007	**COY-MWS**	EPA 8260B	366218		
30328317008	**COZ-MWS**	EPA 8260B	366218		
30328317009	**COX-MWS**	EPA 8260B	366218		
30328317010	**Trip Blank**	EPA 8260B	366218		

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www.pacelabs.com

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

on A
ired Client Information:

any: EnviroAnalytics Group
ss: 1600 Sparrows Point Blvd, Suite B2
Sparrows Point, MD 21219
To: jcalenda@enviroanalyticsgroup.com
: 314-620-3056 Fax:
ested 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: 190275M-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

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): Y

WO#: 30328317
30328317

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: VOC + NAPH by 8260	Residue	Pace Project No./ Lab I.D.
C0100-PZM	WT	G			10/7	0849		3				X					X		001
C0913-PZM	WT	G			10/7	0930		3				X					X		002
C0118-PZM006	WT	G			10/7	1006		3				X					X		003
C0U-MWS	WT	G			10/7	1053		3				X					X		004
C002-PZM041	WT	G			10/7	1138		3				X					X		005
C002-PZM006	WT	G			10/7	1220		3				X					X		006
C0Y-MWS	WT	G			10/7	1303		3				X					X		007
C0Z-MWS	WT	G			10/7	1352		3				X					X		008
C0X-MWS	WT	G			10/7	1433		3				X					X		009
Trip Blank	WT	G			10/7			2				X					X		010
								29											

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 package	[signature] ARM	10/7/19	1540	[signature] / PACE	10/7/19	15:40				
no validation	[signature] / PACE	10/7/19	19:44	RDS PACE	10/7/19	1930		X		
	RDS PACE	10-7-19	2300	Marion L (lay)	10-7-19	2300	.7	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joshua Barnes
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 10/07/19

*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.08, 21 Feb 2007

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: EnviroAnalytics Group Project # # 30328317

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Label MLC
LIMS Login MLC

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 1.7 °C Correction Factor: 0 °C Final Temp: 1.7 °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: MLC 10/8/19
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: W1	✓			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 sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16.	
All containers meet method preservation requirements.	✓			Initial when completed MLC	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	✓			17. Headspace in both Trip Blank > 6mm	
Trip Blank Present:	✓			18.	
Trip Blank Custody Seals Present	✓				
Rad 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 17, 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.: 30328609

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2019. 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.: 30328609

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
Florida: Cert E871149 SEKS WET
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.: 30328609

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30328609001	**Trip blank**	Water	10/08/19 00:01	10/08/19 23:20
30328609002	**CO16-PZM006**	Water	10/08/19 08:35	10/08/19 23:20
30328609003	**CO88-PZM**	Water	10/08/19 09:23	10/08/19 23:20
30328609004	**COW-MWS**	Water	10/08/19 10:03	10/08/19 23:20
30328609005	**COU-MWI**	Water	10/08/19 10:41	10/08/19 23:20
30328609006	**COR-MWI**	Water	10/08/19 11:22	10/08/19 23:20
30328609007	**COS-MWS**	Water	10/08/19 12:04	10/08/19 23:20
30328609008	**CO121-PZM**	Water	10/08/19 12:55	10/08/19 23:20
30328609009	**CO24-PZM007**	Water	10/08/19 12:55	10/08/19 23:20

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30328609

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30328609001	**Trip blank**	EPA 8260B	LEL	53	PASI-PA
30328609002	**CO16-PZM006**	EPA 8260B	LEL	53	PASI-PA
30328609003	**CO88-PZM**	EPA 8260B	LEL	53	PASI-PA
30328609004	**COW-MWS**	EPA 8260B	LEL	53	PASI-PA
30328609005	**COU-MWI**	EPA 8260B	LEL	53	PASI-PA
30328609006	**COR-MWI**	EPA 8260B	LEL	53	PASI-PA
30328609007	**COS-MWS**	EPA 8260B	LEL	53	PASI-PA
30328609008	**CO121-PZM**	EPA 8260B	LEL	53	PASI-PA
30328609009	**CO24-PZM007**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: Trip blank **Lab ID: 30328609001** Collected: 10/08/19 00:01 Received: 10/08/19 23:20 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	0.55	1		10/15/19 15:06	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 15:06	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/15/19 15:06	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 15:06	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/15/19 15:06	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/15/19 15:06	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/15/19 15:06	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/15/19 15:06	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/15/19 15:06	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 15:06	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 15:06	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/15/19 15:06	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/15/19 15:06	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/15/19 15:06	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/15/19 15:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/15/19 15:06	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/15/19 15:06	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/15/19 15:06	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		10/15/19 15:06	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/15/19 15:06	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/15/19 15:06	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/15/19 15:06	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/15/19 15:06	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 15:06	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/15/19 15:06	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/15/19 15:06	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/15/19 15:06	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/15/19 15:06	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/15/19 15:06	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/15/19 15:06	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/15/19 15:06	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/15/19 15:06	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/15/19 15:06	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/15/19 15:06	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/15/19 15:06	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		10/15/19 15:06	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 15:06	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/15/19 15:06	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 15:06	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 15:06	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/15/19 15:06	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/15/19 15:06	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 15:06	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		10/15/19 15:06	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 15:06	156-59-2	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: Trip blank **Lab ID: 30328609001** Collected: 10/08/19 00:01 Received: 10/08/19 23:20 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	0.29	1		10/15/19 15:06	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		10/15/19 15:06	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 15:06	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/15/19 15:06	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		10/15/19 15:06	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		1		10/15/19 15:06	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		10/15/19 15:06	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		1		10/15/19 15:06	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: CO16-PZM006 **Lab ID: 30328609002** Collected: 10/08/19 08:35 Received: 10/08/19 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	2.7	5		10/15/19 20:55	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 20:55	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 20:55	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 20:55	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 20:55	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 20:55	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 20:55	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/15/19 20:55	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 20:55	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 20:55	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 20:55	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 20:55	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 20:55	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/15/19 20:55	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/15/19 20:55	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/15/19 20:55	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/15/19 20:55	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/15/19 20:55	107-13-1	
Benzene	**78000**	ug/L	1000	338	1000		10/15/19 21:19	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 20:55	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 20:55	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/15/19 20:55	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/15/19 20:55	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 20:55	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 20:55	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/15/19 20:55	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 20:55	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 20:55	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 20:55	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/15/19 20:55	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 20:55	74-95-3	
Ethylbenzene	**250**	ug/L	5.0	2.0	5		10/15/19 20:55	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/15/19 20:55	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 20:55	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 20:55	75-09-2	
Naphthalene	**503**	ug/L	10.0	4.1	5		10/15/19 20:55	91-20-3	
Styrene	**53.9**	ug/L	5.0	1.6	5		10/15/19 20:55	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 20:55	127-18-4	
Toluene	**5270**	ug/L	1000	317	1000		10/15/19 21:19	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/15/19 20:55	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/15/19 20:55	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 20:55	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 20:55	75-01-4	
Xylene (Total)	**1940**	ug/L	15.0	6.8	5		10/15/19 20:55	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 20:55	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 20:55	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: CO16-PZM006 **Lab ID: 30328609002** Collected: 10/08/19 08:35 Received: 10/08/19 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	1.4	5		10/15/19 20:55	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 20:55	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/15/19 20:55	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		10/15/19 20:55	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		5		10/15/19 20:55	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		10/15/19 20:55	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		10/15/19 20:55	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: CO88-PZM **Lab ID: 30328609003** Collected: 10/08/19 09:23 Received: 10/08/19 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	2.7	5		10/16/19 19:43	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 19:43	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 19:43	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 19:43	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 19:43	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 19:43	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 19:43	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/16/19 19:43	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 19:43	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 19:43	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 19:43	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 19:43	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 19:43	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/16/19 19:43	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/16/19 19:43	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/16/19 19:43	108-10-1	
Acetone	**45.2J**	ug/L	50.0	28.0	5		10/16/19 19:43	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/16/19 19:43	107-13-1	
Benzene	**207000**	ug/L	2000	676	2000		10/16/19 20:07	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 19:43	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 19:43	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/16/19 19:43	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/16/19 19:43	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 19:43	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 19:43	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/16/19 19:43	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 19:43	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 19:43	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 19:43	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/16/19 19:43	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 19:43	74-95-3	
Ethylbenzene	**378**	ug/L	5.0	2.0	5		10/16/19 19:43	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/16/19 19:43	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 19:43	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 19:43	75-09-2	
Naphthalene	**719**	ug/L	10.0	4.1	5		10/16/19 19:43	91-20-3	
Styrene	**34.4**	ug/L	5.0	1.6	5		10/16/19 19:43	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 19:43	127-18-4	
Toluene	**1300**	ug/L	5.0	1.6	5		10/16/19 19:43	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/16/19 19:43	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/16/19 19:43	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 19:43	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 19:43	75-01-4	
Xylene (Total)	**2600**	ug/L	15.0	6.8	5		10/16/19 19:43	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 19:43	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 19:43	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: CO88-PZM **Lab ID: 30328609003** Collected: 10/08/19 09:23 Received: 10/08/19 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	1.4	5		10/16/19 19:43	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 19:43	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/16/19 19:43	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		10/16/19 19:43	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		5		10/16/19 19:43	17060-07-0	
Toluene-d8 (S)	102	%.	80-120		5		10/16/19 19:43	2037-26-5	
Dibromofluoromethane (S)	88	%.	80-120		5		10/16/19 19:43	1868-53-7	

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

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: COW-MWS **Lab ID: 30328609004** Collected: 10/08/19 10:03 Received: 10/08/19 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	2.7	5		10/15/19 21:44	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 21:44	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 21:44	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 21:44	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 21:44	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 21:44	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 21:44	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/15/19 21:44	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 21:44	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 21:44	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 21:44	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 21:44	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 21:44	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/15/19 21:44	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/15/19 21:44	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/15/19 21:44	108-10-1	
Acetone	**52.0**	ug/L	50.0	28.0	5		10/15/19 21:44	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/15/19 21:44	107-13-1	
Benzene	**311000**	ug/L	1000	338	1000		10/15/19 22:08	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 21:44	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 21:44	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/15/19 21:44	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/15/19 21:44	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 21:44	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 21:44	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/15/19 21:44	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 21:44	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 21:44	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 21:44	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/15/19 21:44	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 21:44	74-95-3	
Ethylbenzene	**223**	ug/L	5.0	2.0	5		10/15/19 21:44	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/15/19 21:44	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 21:44	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 21:44	75-09-2	
Naphthalene	**625**	ug/L	10.0	4.1	5		10/15/19 21:44	91-20-3	
Styrene	**53.3**	ug/L	5.0	1.6	5		10/15/19 21:44	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 21:44	127-18-4	
Toluene	**20600**	ug/L	1000	317	1000		10/15/19 22:08	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/15/19 21:44	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/15/19 21:44	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 21:44	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 21:44	75-01-4	
Xylene (Total)	**3100**	ug/L	15.0	6.8	5		10/15/19 21:44	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 21:44	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 21:44	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: COW-MWS **Lab ID: 30328609004** Collected: 10/08/19 10:03 Received: 10/08/19 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	1.4	5		10/15/19 21:44	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 21:44	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/15/19 21:44	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		5		10/15/19 21:44	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		5		10/15/19 21:44	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		10/15/19 21:44	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		10/15/19 21:44	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: COU-MWI **Lab ID: 30328609005** Collected: 10/08/19 10:41 Received: 10/08/19 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	2.7	5		10/15/19 22:33	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 22:33	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 22:33	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 22:33	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 22:33	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 22:33	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 22:33	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/15/19 22:33	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 22:33	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 22:33	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 22:33	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 22:33	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 22:33	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/15/19 22:33	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/15/19 22:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/15/19 22:33	108-10-1	
Acetone	**70.7**	ug/L	50.0	28.0	5		10/15/19 22:33	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/15/19 22:33	107-13-1	
Benzene	**320000**	ug/L	1000	338	1000		10/15/19 22:57	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 22:33	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 22:33	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/15/19 22:33	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/15/19 22:33	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 22:33	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 22:33	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/15/19 22:33	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 22:33	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 22:33	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 22:33	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/15/19 22:33	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 22:33	74-95-3	
Ethylbenzene	**991**	ug/L	5.0	2.0	5		10/15/19 22:33	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/15/19 22:33	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 22:33	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 22:33	75-09-2	
Naphthalene	**1120**	ug/L	10.0	4.1	5		10/15/19 22:33	91-20-3	
Styrene	**97.2**	ug/L	5.0	1.6	5		10/15/19 22:33	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 22:33	127-18-4	
Toluene	**38000**	ug/L	1000	317	1000		10/15/19 22:57	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/15/19 22:33	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/15/19 22:33	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 22:33	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 22:33	75-01-4	
Xylene (Total)	**13600**	ug/L	3000	1350	1000		10/15/19 22:57	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 22:33	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 22:33	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: COU-MWI **Lab ID: 30328609005** Collected: 10/08/19 10:41 Received: 10/08/19 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	1.4	5		10/15/19 22:33	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 22:33	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/15/19 22:33	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		10/15/19 22:33	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		5		10/15/19 22:33	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		10/15/19 22:33	2037-26-5	
Dibromofluoromethane (S)	86	%.	80-120		5		10/15/19 22:33	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: COR-MWI **Lab ID: 30328609006** Collected: 10/08/19 11:22 Received: 10/08/19 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	2.7	5		10/16/19 18:53	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 18:53	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 18:53	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 18:53	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 18:53	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 18:53	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 18:53	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/16/19 18:53	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 18:53	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 18:53	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 18:53	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 18:53	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 18:53	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/16/19 18:53	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/16/19 18:53	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/16/19 18:53	108-10-1	
Acetone	**45.2J**	ug/L	50.0	28.0	5		10/16/19 18:53	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/16/19 18:53	107-13-1	
Benzene	**209000**	ug/L	1000	338	1000		10/16/19 19:18	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 18:53	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 18:53	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/16/19 18:53	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/16/19 18:53	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 18:53	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 18:53	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/16/19 18:53	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 18:53	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 18:53	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 18:53	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/16/19 18:53	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 18:53	74-95-3	
Ethylbenzene	**554**	ug/L	5.0	2.0	5		10/16/19 18:53	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/16/19 18:53	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 18:53	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 18:53	75-09-2	
Naphthalene	**64100**	ug/L	2000	819	1000		10/16/19 19:18	91-20-3	
Styrene	**258**	ug/L	5.0	1.6	5		10/16/19 18:53	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 18:53	127-18-4	
Toluene	**51200**	ug/L	1000	317	1000		10/16/19 19:18	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/16/19 18:53	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/16/19 18:53	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 18:53	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 18:53	75-01-4	
Xylene (Total)	**12000**	ug/L	3000	1350	1000		10/16/19 19:18	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 18:53	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 18:53	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.: 30328609

Sample: COR-MWI **Lab ID: 30328609006** Collected: 10/08/19 11:22 Received: 10/08/19 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	1.4	5		10/16/19 18:53	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 18:53	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/16/19 18:53	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%.	78-122		5		10/16/19 18:53	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		5		10/16/19 18:53	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		10/16/19 18:53	2037-26-5	
Dibromofluoromethane (S)	89	%.	80-120		5		10/16/19 18:53	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: COS-MWS **Lab ID: 30328609007** Collected: 10/08/19 12:04 Received: 10/08/19 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	2.7	5		10/15/19 16:46	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 16:46	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 16:46	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 16:46	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 16:46	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 16:46	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 16:46	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/15/19 16:46	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 16:46	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 16:46	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 16:46	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 16:46	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 16:46	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/15/19 16:46	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/15/19 16:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/15/19 16:46	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/15/19 16:46	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/15/19 16:46	107-13-1	
Benzene	**2610**	ug/L	200	67.6	200		10/15/19 17:11	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 16:46	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 16:46	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/15/19 16:46	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/15/19 16:46	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 16:46	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 16:46	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/15/19 16:46	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 16:46	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 16:46	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 16:46	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/15/19 16:46	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 16:46	74-95-3	
Ethylbenzene	**7.0**	ug/L	5.0	2.0	5		10/15/19 16:46	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/15/19 16:46	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 16:46	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 16:46	75-09-2	
Naphthalene	**581**	ug/L	10.0	4.1	5		10/15/19 16:46	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 16:46	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 16:46	127-18-4	
Toluene	**257**	ug/L	5.0	1.6	5		10/15/19 16:46	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/15/19 16:46	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/15/19 16:46	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 16:46	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 16:46	75-01-4	
Xylene (Total)	**101**	ug/L	15.0	6.8	5		10/15/19 16:46	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 16:46	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 16:46	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: COS-MWS **Lab ID: 30328609007** Collected: 10/08/19 12:04 Received: 10/08/19 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	1.4	5		10/15/19 16:46	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 16:46	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/15/19 16:46	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		10/15/19 16:46	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		5		10/15/19 16:46	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		10/15/19 16:46	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		5		10/15/19 16:46	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: CO121-PZM **Lab ID: 30328609008** Collected: 10/08/19 12:55 Received: 10/08/19 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	**10.0 U**	ug/L	10.0	5.5	10		10/15/19 15:31	630-20-6	
1,1,1-Trichloroethane	**10.0 U**	ug/L	10.0	3.8	10		10/15/19 15:31	71-55-6	
1,1,2,2-Tetrachloroethane	**10.0 U**	ug/L	10.0	4.7	10		10/15/19 15:31	79-34-5	
1,1,2-Trichloroethane	**10.0 U**	ug/L	10.0	3.3	10		10/15/19 15:31	79-00-5	
1,1-Dichloroethane	**10.0 U**	ug/L	10.0	2.4	10		10/15/19 15:31	75-34-3	
1,1-Dichloroethene	**10.0 U**	ug/L	10.0	2.4	10		10/15/19 15:31	75-35-4	
1,2,3-Trichloropropane	**10.0 U**	ug/L	10.0	5.8	10		10/15/19 15:31	96-18-4	
1,2-Dibromo-3-chloropropane	**50.0 U**	ug/L	50.0	5.5	10		10/15/19 15:31	96-12-8	
1,2-Dibromoethane (EDB)	**10.0 U**	ug/L	10.0	4.4	10		10/15/19 15:31	106-93-4	
1,2-Dichlorobenzene	**10.0 U**	ug/L	10.0	3.8	10		10/15/19 15:31	95-50-1	
1,2-Dichloroethane	**10.0 U**	ug/L	10.0	3.3	10		10/15/19 15:31	107-06-2	
1,2-Dichloropropane	**10.0 U**	ug/L	10.0	2.8	10		10/15/19 15:31	78-87-5	
1,4-Dichlorobenzene	**10.0 U**	ug/L	10.0	4.8	10		10/15/19 15:31	106-46-7	
2-Butanone (MEK)	**100 U**	ug/L	100	15.2	10		10/15/19 15:31	78-93-3	
2-Hexanone	**100 U**	ug/L	100	5.8	10		10/15/19 15:31	591-78-6	
4-Methyl-2-pentanone (MIBK)	**100 U**	ug/L	100	4.2	10		10/15/19 15:31	108-10-1	
Acetone	**100 U**	ug/L	100	56.1	10		10/15/19 15:31	67-64-1	
Acrylonitrile	**40.0 U**	ug/L	40.0	5.5	10		10/15/19 15:31	107-13-1	
Benzene	**1230**	ug/L	10.0	3.4	10		10/15/19 15:31	71-43-2	MH
Bromochloromethane	**10.0 U**	ug/L	10.0	4.8	10		10/15/19 15:31	74-97-5	
Bromodichloromethane	**10.0 U**	ug/L	10.0	3.5	10		10/15/19 15:31	75-27-4	
Bromoform	**10.0 U**	ug/L	10.0	5.6	10		10/15/19 15:31	75-25-2	
Bromomethane	**10.0 U**	ug/L	10.0	7.3	10		10/15/19 15:31	74-83-9	
Carbon disulfide	**10.0 U**	ug/L	10.0	3.2	10		10/15/19 15:31	75-15-0	
Carbon tetrachloride	**10.0 U**	ug/L	10.0	4.4	10		10/15/19 15:31	56-23-5	
Chlorobenzene	**10.0 U**	ug/L	10.0	2.6	10		10/15/19 15:31	108-90-7	
Chloroethane	**10.0 U**	ug/L	10.0	6.4	10		10/15/19 15:31	75-00-3	
Chloroform	**10.0 U**	ug/L	10.0	3.9	10		10/15/19 15:31	67-66-3	
Chloromethane	**10.0 U**	ug/L	10.0	4.0	10		10/15/19 15:31	74-87-3	
Dibromochloromethane	**10.0 U**	ug/L	10.0	4.3	10		10/15/19 15:31	124-48-1	
Dibromomethane	**10.0 U**	ug/L	10.0	3.4	10		10/15/19 15:31	74-95-3	
Ethylbenzene	**52.4**	ug/L	10.0	4.0	10		10/15/19 15:31	100-41-4	
Iodomethane	**500 U**	ug/L	500	5.2	10		10/15/19 15:31	74-88-4	
Methyl-tert-butyl ether	**10.0 U**	ug/L	10.0	2.5	10		10/15/19 15:31	1634-04-4	
Methylene Chloride	**10.0 U**	ug/L	10.0	6.4	10		10/15/19 15:31	75-09-2	
Naphthalene	**2010**	ug/L	20.0	8.2	10		10/15/19 15:31	91-20-3	
Styrene	**117**	ug/L	10.0	3.3	10		10/15/19 15:31	100-42-5	
Tetrachloroethene	**10.0 U**	ug/L	10.0	3.9	10		10/15/19 15:31	127-18-4	
Toluene	**1100**	ug/L	10.0	3.2	10		10/15/19 15:31	108-88-3	ML
Trichloroethene	**10.0 U**	ug/L	10.0	2.9	10		10/15/19 15:31	79-01-6	
Trichlorofluoromethane	**10.0 U**	ug/L	10.0	5.1	10		10/15/19 15:31	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	5.7	10		10/15/19 15:31	108-05-4	
Vinyl chloride	**10.0 U**	ug/L	10.0	2.9	10		10/15/19 15:31	75-01-4	
Xylene (Total)	**597**	ug/L	30.0	13.5	10		10/15/19 15:31	1330-20-7	
cis-1,2-Dichloroethene	**10.0 U**	ug/L	10.0	3.8	10		10/15/19 15:31	156-59-2	
cis-1,3-Dichloropropene	**10.0 U**	ug/L	10.0	2.9	10		10/15/19 15:31	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: CO121-PZM **Lab ID: 30328609008** Collected: 10/08/19 12:55 Received: 10/08/19 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	**10.0 U**	ug/L	10.0	2.8	10		10/15/19 15:31	156-60-5	
trans-1,3-Dichloropropene	**10.0 U**	ug/L	10.0	3.2	10		10/15/19 15:31	10061-02-6	
trans-1,4-Dichloro-2-butene	**50.0 U**	ug/L	50.0	5.8	10		10/15/19 15:31	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		10		10/15/19 15:31	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	80-120		10		10/15/19 15:31	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		10		10/15/19 15:31	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		10		10/15/19 15:31	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: CO24-PZM007 **Lab ID: 30328609009** Collected: 10/08/19 12:55 Received: 10/08/19 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	0.55	1		10/15/19 15:56	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 15:56	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/15/19 15:56	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 15:56	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/15/19 15:56	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/15/19 15:56	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/15/19 15:56	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/15/19 15:56	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/15/19 15:56	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 15:56	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 15:56	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/15/19 15:56	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/15/19 15:56	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/15/19 15:56	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/15/19 15:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/15/19 15:56	108-10-1	
Acetone	**18.1**	ug/L	10.0	5.6	1		10/15/19 15:56	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/15/19 15:56	107-13-1	
Benzene	**160**	ug/L	1.0	0.34	1		10/15/19 15:56	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/15/19 15:56	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/15/19 15:56	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/15/19 15:56	75-25-2	
Bromomethane	**0.83J**	ug/L	1.0	0.73	1		10/15/19 15:56	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 15:56	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/15/19 15:56	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/15/19 15:56	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/15/19 15:56	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/15/19 15:56	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/15/19 15:56	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/15/19 15:56	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/15/19 15:56	74-95-3	
Ethylbenzene	**6.0**	ug/L	1.0	0.40	1		10/15/19 15:56	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/15/19 15:56	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/15/19 15:56	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/15/19 15:56	75-09-2	
Naphthalene	**4070**	ug/L	40.0	16.4	20		10/15/19 16:21	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 15:56	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/15/19 15:56	127-18-4	
Toluene	**37.3**	ug/L	1.0	0.32	1		10/15/19 15:56	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 15:56	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/15/19 15:56	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/15/19 15:56	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 15:56	75-01-4	
Xylene (Total)	**21.5**	ug/L	3.0	1.4	1		10/15/19 15:56	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 15:56	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 15:56	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328609

Sample: CO24-PZM007 **Lab ID: 30328609009** Collected: 10/08/19 12:55 Received: 10/08/19 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	0.28	1		10/15/19 15:56	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 15:56	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/15/19 15:56	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		10/15/19 15:56	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		10/15/19 15:56	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		1		10/15/19 15:56	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		10/15/19 15:56	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30328609

QC Batch: 366218 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30328609001, 30328609002, 30328609004, 30328609005, 30328609007, 30328609008, 30328609009

METHOD BLANK: 1776357 Matrix: Water
Associated Lab Samples: 30328609001, 30328609002, 30328609004, 30328609005, 30328609007, 30328609008, 30328609009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/15/19 14:16	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/15/19 14:16	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/15/19 14:16	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/15/19 14:16	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/15/19 14:16	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/15/19 14:16	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/15/19 14:16	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/15/19 14:16	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/15/19 14:16	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/15/19 14:16	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/15/19 14:16	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/15/19 14:16	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/15/19 14:16	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/15/19 14:16	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/15/19 14:16	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/15/19 14:16	
Acetone	ug/L	10.0 U	10.0	5.6	10/15/19 14:16	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/15/19 14:16	
Benzene	ug/L	1.0 U	1.0	0.34	10/15/19 14:16	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/15/19 14:16	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/15/19 14:16	
Bromoform	ug/L	1.0 U	1.0	0.56	10/15/19 14:16	
Bromomethane	ug/L	1.0 U	1.0	0.73	10/15/19 14:16	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/15/19 14:16	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/15/19 14:16	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/15/19 14:16	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/15/19 14:16	
Chloroform	ug/L	1.0 U	1.0	0.39	10/15/19 14:16	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/15/19 14:16	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/15/19 14:16	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/15/19 14:16	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/15/19 14:16	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/15/19 14:16	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/15/19 14:16	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/15/19 14:16	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/15/19 14:16	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/15/19 14:16	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/15/19 14:16	
Styrene	ug/L	1.0 U	1.0	0.33	10/15/19 14:16	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/15/19 14:16	
Toluene	ug/L	1.0 U	1.0	0.32	10/15/19 14:16	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30328609

METHOD BLANK: 1776357 Matrix: Water
Associated Lab Samples: 30328609001, 30328609002, 30328609004, 30328609005, 30328609007, 30328609008, 30328609009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/15/19 14:16	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/15/19 14:16	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/15/19 14:16	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/15/19 14:16	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/15/19 14:16	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/15/19 14:16	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/15/19 14:16	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/15/19 14:16	
1,2-Dichloroethane-d4 (S)	%.	100	80-120		10/15/19 14:16	
4-Bromofluorobenzene (S)	%.	99	78-122		10/15/19 14:16	
Dibromofluoromethane (S)	%.	98	80-120		10/15/19 14:16	
Toluene-d8 (S)	%.	97	80-120		10/15/19 14:16	

LABORATORY CONTROL SAMPLE: 1776358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.0	105	70-130	
1,1,1-Trichloroethane	ug/L	20	18.3	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.8	104	70-130	
1,1,2-Trichloroethane	ug/L	20	21.9	110	70-130	
1,1-Dichloroethane	ug/L	20	18.7	93	68-121	
1,1-Dichloroethene	ug/L	20	17.9	89	63-129	
1,2,3-Trichloropropane	ug/L	20	20.2	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.7	89	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	22.8	114	70-130	
1,2-Dichlorobenzene	ug/L	20	20.5	103	70-130	
1,2-Dichloroethane	ug/L	20	19.2	96	67-117	
1,2-Dichloropropane	ug/L	20	21.2	106	69-121	
1,4-Dichlorobenzene	ug/L	20	21.0	105	70-130	
2-Butanone (MEK)	ug/L	20	20.5	103	59-128	
2-Hexanone	ug/L	20	17.0	85	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.8	104	63-126	
Acetone	ug/L	20	18.5	93	37-150	
Acrylonitrile	ug/L	20	20.5	102	62-128	
Benzene	ug/L	20	20.4	102	70-130	
Bromochloromethane	ug/L	20	23.8	119	59-137	
Bromodichloromethane	ug/L	20	20.8	104	70-130	
Bromoform	ug/L	20	18.2	91	65-130	
Bromomethane	ug/L	20	19.2	96	45-148	
Carbon disulfide	ug/L	20	18.6	93	55-123	
Carbon tetrachloride	ug/L	20	18.8	94	69-126	
Chlorobenzene	ug/L	20	21.0	105	70-130	
Chloroethane	ug/L	20	22.0	110	68-146	
Chloroform	ug/L	20	20.0	100	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30328609

LABORATORY CONTROL SAMPLE: 1776358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	18.7	93	56-129	
cis-1,2-Dichloroethene	ug/L	20	19.5	97	66-118	
cis-1,3-Dichloropropene	ug/L	20	21.1	105	70-130	
Dibromochloromethane	ug/L	20	18.5	92	70-130	
Dibromomethane	ug/L	20	21.2	106	70-130	
Ethylbenzene	ug/L	20	20.7	104	70-130	
Iodomethane	ug/L	20	12.6J	63	10-175	
Methyl-tert-butyl ether	ug/L	20	20.9	104	70-130	
Methylene Chloride	ug/L	20	20.0	100	65-124	
Naphthalene	ug/L	20	21.1	105	69-135	
Styrene	ug/L	20	21.3	106	70-130	
Tetrachloroethene	ug/L	20	19.0	95	70-130	
Toluene	ug/L	20	20.3	102	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.0	90	64-123	
trans-1,3-Dichloropropene	ug/L	20	18.9	94	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	16.3	81	37-119	
Trichloroethene	ug/L	20	19.7	99	70-130	
Trichlorofluoromethane	ug/L	20	23.9	120	64-163	
Vinyl acetate	ug/L	20	16.0	80	45-129	
Vinyl chloride	ug/L	20	23.5	118	70-130	
Xylene (Total)	ug/L	60	60.9	101	70-130	
1,2-Dichloroethane-d4 (S)	%.			93	80-120	
4-Bromofluorobenzene (S)	%.			100	78-122	
Dibromofluoromethane (S)	%.			97	80-120	
Toluene-d8 (S)	%.			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1776359 1776360

Parameter	Units	30328609008 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	10.0 U	200	200	157	170	78	85	52-123	8	30	
1,1,1-Trichloroethane	ug/L	10.0 U	200	200	144	154	72	77	67-127	6	30	
1,1,2,2-Tetrachloroethane	ug/L	10.0 U	200	200	162	175	81	87	55-118	7	30	
1,1,2-Trichloroethane	ug/L	10.0 U	200	200	167	179	83	89	60-117	7	30	
1,1-Dichloroethane	ug/L	10.0 U	200	200	138	148	69	74	68-118	7	30	
1,1-Dichloroethene	ug/L	10.0 U	200	200	143	144	72	72	62-126	1	30	
1,2,3-Trichloropropane	ug/L	10.0 U	200	200	157	168	79	84	56-129	7	30	
1,2-Dibromo-3-chloropropane	ug/L	50.0 U	200	200	132	138	66	69	46-130	4	30	
1,2-Dibromoethane (EDB)	ug/L	10.0 U	200	200	174	185	87	93	69-124	6	30	
1,2-Dichlorobenzene	ug/L	10.0 U	200	200	153	177	77	88	66-116	14	30	
1,2-Dichloroethane	ug/L	10.0 U	200	200	156	160	78	80	67-117	2	30	
1,2-Dichloropropane	ug/L	10.0 U	200	200	168	175	84	88	61-128	4	30	
1,4-Dichlorobenzene	ug/L	10.0 U	200	200	165	177	82	89	68-116	7	30	
2-Butanone (MEK)	ug/L	100 U	200	200	176	148	88	74	63-175	17	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30328609

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1776359 1776360

Parameter	Units	30328609008 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	100 U	200	200	137	129	68	65	65-151	6	30	
4-Methyl-2-pentanone (MIBK)	ug/L	100 U	200	200	153	156	76	78	66-149	2	30	
Acetone	ug/L	100 U	200	200	173	166	70	66	10-175	4	30	
Acrylonitrile	ug/L	40.0 U	200	200	146	142	73	71	42-165	3	30	
Benzene	ug/L	1230	200	200	1470	1470	121	121	67-119	0	30	MH
Bromochloromethane	ug/L	10.0 U	200	200	180	198	90	99	64-124	10	30	
Bromodichloromethane	ug/L	10.0 U	200	200	155	165	78	82	67-126	6	30	
Bromoform	ug/L	10.0 U	200	200	132	153	66	77	43-114	15	30	
Bromomethane	ug/L	10.0 U	200	200	54.2	64.8	27	32	10-164	18	30	
Carbon disulfide	ug/L	10.0 U	200	200	138	135	69	68	37-135	2	30	
Carbon tetrachloride	ug/L	10.0 U	200	200	139	151	70	76	60-137	9	30	
Chlorobenzene	ug/L	10.0 U	200	200	167	182	84	91	68-119	9	30	
Chloroethane	ug/L	10.0 U	200	200	213	216	107	108	54-169	1	30	
Chloroform	ug/L	10.0 U	200	200	152	169	76	85	69-113	11	30	
Chloromethane	ug/L	10.0 U	200	200	141	159	70	80	43-159	12	30	
cis-1,2-Dichloroethene	ug/L	10.0 U	200	200	148	161	74	80	65-121	8	30	
cis-1,3-Dichloropropene	ug/L	10.0 U	200	200	146	153	73	77	61-120	5	30	
Dibromochloromethane	ug/L	10.0 U	200	200	135	147	68	74	56-121	8	30	
Dibromomethane	ug/L	10.0 U	200	200	164	171	82	85	56-133	4	30	
Ethylbenzene	ug/L	52.4	200	200	215	227	81	87	69-127	5	30	
Iodomethane	ug/L	500 U	200	200	129J	201J	64	100	10-152		30	
Methyl-tert-butyl ether	ug/L	10.0 U	200	200	159	153	79	77	70-130	3	30	
Methylene Chloride	ug/L	10.0 U	200	200	160	161	80	81	49-144	1	30	
Naphthalene	ug/L	2010	200	200	2230	2280	109	133	60-136	2	30	
Styrene	ug/L	117	200	200	296	308	89	96	65-120	4	30	
Tetrachloroethene	ug/L	10.0 U	200	200	146	148	73	74	64-123	2	30	
Toluene	ug/L	1100	200	200	1280	1200	91	51	70-130	6	30	ML
trans-1,2-Dichloroethene	ug/L	10.0 U	200	200	139	140	70	70	66-119	1	30	
trans-1,3-Dichloropropene	ug/L	10.0 U	200	200	139	149	70	74	52-117	7	30	
trans-1,4-Dichloro-2-butene	ug/L	50.0 U	200	200	79.3	83.8	40	42	13-100	6	30	
Trichloroethene	ug/L	10.0 U	200	200	158	167	79	84	63-125	6	30	
Trichlorofluoromethane	ug/L	10.0 U	200	200	224	225	112	113	43-186	0	30	
Vinyl acetate	ug/L	10.0 U	200	200	132	134	66	67	35-150	2	30	
Vinyl chloride	ug/L	10.0 U	200	200	205	216	103	108	60-133	5	30	
Xylene (Total)	ug/L	597	600	600	1100	1150	83	93	69-128	5	30	
1,2-Dichloroethane-d4 (S)	%.						94	96	80-120			
4-Bromofluorobenzene (S)	%.						100	105	78-122			
Dibromofluoromethane (S)	%.						92	97	80-120			
Toluene-d8 (S)	%.						98	93	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30328609

QC Batch: 366417 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30328609003, 30328609006

METHOD BLANK: 1777370 Matrix: Water
Associated Lab Samples: 30328609003, 30328609006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/16/19 12:41	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/16/19 12:41	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/16/19 12:41	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/16/19 12:41	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/16/19 12:41	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/16/19 12:41	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/16/19 12:41	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/16/19 12:41	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/16/19 12:41	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/16/19 12:41	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/16/19 12:41	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/16/19 12:41	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/16/19 12:41	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/16/19 12:41	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/16/19 12:41	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/16/19 12:41	
Acetone	ug/L	10.0 U	10.0	5.6	10/16/19 12:41	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/16/19 12:41	
Benzene	ug/L	1.0 U	1.0	0.34	10/16/19 12:41	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/16/19 12:41	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/16/19 12:41	
Bromoform	ug/L	1.0 U	1.0	0.56	10/16/19 12:41	
Bromomethane	ug/L	0.92J	1.0	0.73	10/16/19 12:41	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/16/19 12:41	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/16/19 12:41	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/16/19 12:41	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/16/19 12:41	
Chloroform	ug/L	1.0 U	1.0	0.39	10/16/19 12:41	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/16/19 12:41	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/16/19 12:41	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/16/19 12:41	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/16/19 12:41	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/16/19 12:41	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/16/19 12:41	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/16/19 12:41	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/16/19 12:41	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/16/19 12:41	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/16/19 12:41	
Styrene	ug/L	1.0 U	1.0	0.33	10/16/19 12:41	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/16/19 12:41	
Toluene	ug/L	1.0 U	1.0	0.32	10/16/19 12:41	

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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.: 30328609

METHOD BLANK: 1777370 Matrix: Water
Associated Lab Samples: 30328609003, 30328609006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/16/19 12:41	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/16/19 12:41	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/16/19 12:41	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/16/19 12:41	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/16/19 12:41	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/16/19 12:41	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/16/19 12:41	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/16/19 12:41	
1,2-Dichloroethane-d4 (S)	%.	100	80-120		10/16/19 12:41	
4-Bromofluorobenzene (S)	%.	101	78-122		10/16/19 12:41	
Dibromofluoromethane (S)	%.	93	80-120		10/16/19 12:41	
Toluene-d8 (S)	%.	100	80-120		10/16/19 12:41	

LABORATORY CONTROL SAMPLE: 1777371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.9	94	70-130	
1,1,1-Trichloroethane	ug/L	20	18.4	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	70-130	
1,1,2-Trichloroethane	ug/L	20	18.9	95	70-130	
1,1-Dichloroethane	ug/L	20	18.5	92	68-121	
1,1-Dichloroethene	ug/L	20	16.3	82	63-129	
1,2,3-Trichloropropane	ug/L	20	19.5	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	16.0	80	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	19.8	99	70-130	
1,2-Dichlorobenzene	ug/L	20	18.0	90	70-130	
1,2-Dichloroethane	ug/L	20	18.8	94	67-117	
1,2-Dichloropropane	ug/L	20	18.6	93	69-121	
1,4-Dichlorobenzene	ug/L	20	18.1	91	70-130	
2-Butanone (MEK)	ug/L	20	19.7	98	59-128	
2-Hexanone	ug/L	20	21.0	105	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	22.7	113	63-126	
Acetone	ug/L	20	25.1	126	37-150	
Acrylonitrile	ug/L	20	22.5	112	62-128	
Benzene	ug/L	20	19.2	96	70-130	
Bromochloromethane	ug/L	20	20.6	103	59-137	
Bromodichloromethane	ug/L	20	19.3	96	70-130	
Bromoform	ug/L	20	14.7	73	65-130	
Bromomethane	ug/L	20	16.2	81	45-148	
Carbon disulfide	ug/L	20	16.1	80	55-123	
Carbon tetrachloride	ug/L	20	18.6	93	69-126	
Chlorobenzene	ug/L	20	18.8	94	70-130	
Chloroethane	ug/L	20	31.1	156	68-146	L1
Chloroform	ug/L	20	18.8	94	69-116	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30328609

LABORATORY CONTROL SAMPLE: 1777371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	20.5	103	56-129	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	66-118	
cis-1,3-Dichloropropene	ug/L	20	17.3	87	70-130	
Dibromochloromethane	ug/L	20	17.8	89	70-130	
Dibromomethane	ug/L	20	19.1	96	70-130	
Ethylbenzene	ug/L	20	18.5	92	70-130	
Iodomethane	ug/L	20	15.9J	79	10-175	
Methyl-tert-butyl ether	ug/L	20	19.6	98	70-130	
Methylene Chloride	ug/L	20	20.2	101	65-124	
Naphthalene	ug/L	20	17.0	85	69-135	
Styrene	ug/L	20	18.6	93	70-130	
Tetrachloroethene	ug/L	20	17.2	86	70-130	
Toluene	ug/L	20	16.9	85	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.0	85	64-123	
trans-1,3-Dichloropropene	ug/L	20	17.0	85	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	14.8	74	37-119	
Trichloroethene	ug/L	20	17.6	88	70-130	
Trichlorofluoromethane	ug/L	20	26.2	131	64-163	
Vinyl acetate	ug/L	20	13.2	66	45-129	
Vinyl chloride	ug/L	20	23.8	119	70-130	
Xylene (Total)	ug/L	60	55.1	92	70-130	
1,2-Dichloroethane-d4 (S)	%.			101	80-120	
4-Bromofluorobenzene (S)	%.			98	78-122	
Dibromofluoromethane (S)	%.			109	80-120	
Toluene-d8 (S)	%.			91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777372 1777373

Parameter	Units	30329450003 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	5.0 U	100	100	86.2	85.4	86	85	52-123	1	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	85.1	80.2	85	80	67-127	6	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	80.5	79.7	81	80	55-118	1	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	92.7	84.1	93	84	60-117	10	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	80.1	73.9	80	74	68-118	8	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	77.7	71.5	78	72	62-126	8	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	86.8	82.5	87	83	56-129	5	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	69.5	64.3	69	64	46-130	8	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	87.1	88.3	87	88	69-124	1	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	81.7	82.0	82	82	66-116	0	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	83.9	82.8	84	83	67-117	1	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	85.1	83.9	85	84	61-128	1	30	
1,4-Dichlorobenzene	ug/L	5.0 U	100	100	84.9	81.7	85	82	68-116	4	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	82.2	70.6	82	71	63-175	15	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.: 30328609

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777372 1777373

Parameter	Units	30329450003 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	50.0 U	100	100	84.5	88.6	85	89	65-151	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	85.6	88.2	86	88	66-149	3	30	
Acetone	ug/L	50.0 U	100	100	101	97.5	75	72	10-175	3	30	
Acrylonitrile	ug/L	20.0 U	100	100	82.0	79.0	82	79	42-165	4	30	
Benzene	ug/L	152	100	100	235	229	83	77	67-119	3	30	
Bromochloromethane	ug/L	5.0 U	100	100	95.0	94.3	95	94	64-124	1	30	
Bromodichloromethane	ug/L	5.0 U	100	100	84.2	82.4	84	82	67-126	2	30	
Bromoform	ug/L	5.0 U	100	100	62.6	61.1	63	61	43-114	2	30	
Bromomethane	ug/L	5.1	100	100	35.1	52.8	30	48	10-164	40	30	R1
Carbon disulfide	ug/L	5.0 U	100	100	72.6	70.9	73	71	37-135	2	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	86.5	85.6	87	86	60-137	1	30	
Chlorobenzene	ug/L	5.0 U	100	100	88.5	86.9	88	87	68-119	2	30	
Chloroethane	ug/L	5.0 U	100	100	115	128	115	128	54-169	10	30	
Chloroform	ug/L	5.0 U	100	100	88.1	82.8	88	83	69-113	6	30	
Chloromethane	ug/L	5.0 U	100	100	75.0	77.0	75	77	43-159	3	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	85.1	77.4	85	77	65-121	10	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	77.7	79.0	78	79	61-120	2	30	
Dibromochloromethane	ug/L	5.0 U	100	100	78.6	80.2	79	80	56-121	2	30	
Dibromomethane	ug/L	5.0 U	100	100	84.5	83.1	85	83	56-133	2	30	
Ethylbenzene	ug/L	8.9	100	100	98.7	96.2	90	87	69-127	3	30	
Iodomethane	ug/L	250 U	100	100	38.9J	44.4J	39	44	10-152		30	
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	77.5	74.0	77	74	70-130	5	30	
Methylene Chloride	ug/L	5.0 U	100	100	83.6	77.6	84	78	49-144	8	30	
Naphthalene	ug/L	1620	100	100	1880	1840	260	223	60-136	2	30	MH
Styrene	ug/L	3.7J	100	100	94.0	87.4	90	84	65-120	7	30	
Tetrachloroethene	ug/L	5.0 U	100	100	91.9	83.1	92	83	64-123	10	30	
Toluene	ug/L	30.7	100	100	128	116	98	85	70-130	10	30	
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	76.4	69.8	76	70	66-119	9	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	87.2	82.6	87	83	52-117	5	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	61.3	62.6	61	63	13-100	2	30	
Trichloroethene	ug/L	5.0 U	100	100	85.4	82.8	85	83	63-125	3	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	110	117	110	117	43-186	7	30	
Vinyl acetate	ug/L	5.0 U	100	100	63.6	62.0	64	62	35-150	3	30	
Vinyl chloride	ug/L	5.0 U	100	100	95.5	91.4	95	91	60-133	4	30	
Xylene (Total)	ug/L	140	300	300	410	402	90	87	69-128	2	30	
1,2-Dichloroethane-d4 (S)	%.						103	98	80-120			
4-Bromofluorobenzene (S)	%.						97	98	78-122			
Dibromofluoromethane (S)	%.						98	98	80-120			
Toluene-d8 (S)	%.						105	99	80-120			

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30328609

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

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.: 30328609

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30328609001	**Trip blank**	EPA 8260B	366218		
30328609002	**CO16-PZM006**	EPA 8260B	366218		
30328609003	**CO88-PZM**	EPA 8260B	366417		
30328609004	**COW-MWS**	EPA 8260B	366218		
30328609005	**COU-MWI**	EPA 8260B	366218		
30328609006	**COR-MWI**	EPA 8260B	366417		
30328609007	**COS-MWS**	EPA 8260B	366218		
30328609008	**CO121-PZM**	EPA 8260B	366218		
30328609009	**CO24-PZM007**	EPA 8260B	366218		

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

WO# : 30328609

30328609

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:	190276M-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)

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.
Trip blank	WT				10/8			2				X				X		001
C016-P2M0016	WT	G			10/8	0835		3				X				X		002
C056-P2M	WT	G			10/8	0923		3				X				X		003
C04W-MW5	WT	G			10/8	1003		3				X				X		004
C04U-MW1	WT	G			10/8	1041		3				X				X		005
C04R-MW1	WT	G			10/8	1122		3				X				X		006
C045-MW5	WT	G			10/8	1204		3				X				X		007
C0121-P2M	WT	G			10/8	1255		3				X				X		008
C024-P2M0017	WT	G			10/8	1352		3				X				X		009
								26										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
no validation	Joshua Barna ARM	10/8/19	1445	GMB/Pace	10/8/19	1525	
no package	GMB/Pace	10/8/19	1900	RDS FACE	10/8/19	1930	Y
RDS FACE	10/8/19	2320	Maureen L Clary	10-8-19	2320	4 Y N Y	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joshua Barna

SIGNATURE of SAMPLER: Joshua Barna

DATE Signed (MM/DD/YY): 10/08/19

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

30328609

Pace Analytical

Client Name: EnviroAnalytics Group Project # _____

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Label MLC

Tracking #: N/A

LIMS Login MLC

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Thermometer Used 11 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp .4 °C Correction Factor: 0 °C Final Temp: .4 °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: MLC 10/9/19
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: W	✓			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 sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16.	
All containers meet method preservation requirements.	✓			Initial when completed MLC	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	✓			17. One Trip Blank has Headspace > 6mm	
Trip Blank Present:	✓			18.	
Trip Blank Custody Seals Present	✓				
Rad 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 17, 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.: 30328894

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on October 09, 2019. 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.: 30328894

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
Florida: Cert E871149 SEKS WET
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.: 30328894

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30328894001	**COBB-MWS**	Water	10/09/19 08:36	10/09/19 23:45
30328894002	**CO56-PZM001**	Water	10/09/19 09:15	10/09/19 23:45
30328894003	**CODD-MWS**	Water	10/09/19 09:51	10/09/19 23:45
30328894004	**COAA-MWS**	Water	10/09/19 10:54	10/09/19 23:45
30328894005	**COCC-MWS**	Water	10/09/19 11:39	10/09/19 23:45
30328894006	**CO26-PZM007**	Water	10/09/19 12:22	10/09/19 23:45
30328894007	**COFF-MWS**	Water	10/09/19 12:52	10/09/19 23:45
30328894008	**CO58-PZM001**	Water	10/09/19 13:31	10/09/19 23:45
30328894009	**Trip Blank**	Water	10/09/19 00:01	10/09/19 23:45

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30328894

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30328894001	**COBB-MWS**	EPA 8260B	LEL	53	PASI-PA
30328894002	**CO56-PZM001**	EPA 8260B	LEL	53	PASI-PA
30328894003	**CODD-MWS**	EPA 8260B	LEL	53	PASI-PA
30328894004	**COAA-MWS**	EPA 8260B	LEL	53	PASI-PA
30328894005	**COCC-MWS**	EPA 8260B	LEL	53	PASI-PA
30328894006	**CO26-PZM007**	EPA 8260B	LEL	53	PASI-PA
30328894007	**COFF-MWS**	EPA 8260B	LEL	53	PASI-PA
30328894008	**CO58-PZM001**	EPA 8260B	LEL	53	PASI-PA
30328894009	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328894

Sample: COBB-MWS **Lab ID: 30328894001** Collected: 10/09/19 08:36 Received: 10/09/19 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	2.7	5		10/15/19 19:53	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 19:53	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 19:53	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 19:53	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 19:53	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 19:53	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 19:53	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/15/19 19:53	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 19:53	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 19:53	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 19:53	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 19:53	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 19:53	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/15/19 19:53	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/15/19 19:53	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/15/19 19:53	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/15/19 19:53	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/15/19 19:53	107-13-1	
Benzene	**810**	ug/L	5.0	1.7	5		10/15/19 19:53	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 19:53	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 19:53	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/15/19 19:53	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/15/19 19:53	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 19:53	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 19:53	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/15/19 19:53	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 19:53	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 19:53	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 19:53	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/15/19 19:53	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 19:53	74-95-3	
Ethylbenzene	**20.7**	ug/L	5.0	2.0	5		10/15/19 19:53	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/15/19 19:53	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 19:53	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 19:53	75-09-2	
Naphthalene	**21600**	ug/L	1000	410	500		10/15/19 20:18	91-20-3	
Styrene	**201**	ug/L	5.0	1.6	5		10/15/19 19:53	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 19:53	127-18-4	
Toluene	**560**	ug/L	5.0	1.6	5		10/15/19 19:53	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/15/19 19:53	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/15/19 19:53	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 19:53	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 19:53	75-01-4	
Xylene (Total)	**545**	ug/L	15.0	6.8	5		10/15/19 19:53	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 19:53	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 19:53	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.: 30328894

Sample: COBB-MWS **Lab ID: 30328894001** Collected: 10/09/19 08:36 Received: 10/09/19 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	1.4	5		10/15/19 19:53	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 19:53	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/15/19 19:53	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		5		10/15/19 19:53	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		5		10/15/19 19:53	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		10/15/19 19:53	2037-26-5	
Dibromofluoromethane (S)	86	%.	80-120		5		10/15/19 19:53	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328894

Sample: CO56-PZM001 **Lab ID: 30328894002** Collected: 10/09/19 09:15 Received: 10/09/19 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	2.7	5		10/15/19 16:08	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 16:08	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 16:08	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 16:08	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 16:08	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 16:08	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 16:08	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/15/19 16:08	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 16:08	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 16:08	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 16:08	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 16:08	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 16:08	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/15/19 16:08	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/15/19 16:08	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/15/19 16:08	108-10-1	
Acetone	**28.2J**	ug/L	50.0	28.0	5		10/15/19 16:08	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/15/19 16:08	107-13-1	
Benzene	**248**	ug/L	5.0	1.7	5		10/15/19 16:08	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 16:08	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 16:08	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/15/19 16:08	75-25-2	
Bromomethane	**11.0**	ug/L	5.0	3.6	5		10/15/19 16:08	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 16:08	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 16:08	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/15/19 16:08	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 16:08	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 16:08	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 16:08	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/15/19 16:08	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 16:08	74-95-3	
Ethylbenzene	**8.6**	ug/L	5.0	2.0	5		10/15/19 16:08	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/15/19 16:08	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 16:08	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 16:08	75-09-2	
Naphthalene	**2200**	ug/L	20.0	8.2	10		10/16/19 20:32	91-20-3	MH,ML
Styrene	**38.9**	ug/L	5.0	1.6	5		10/15/19 16:08	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 16:08	127-18-4	
Toluene	**61.4**	ug/L	5.0	1.6	5		10/15/19 16:08	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/15/19 16:08	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/15/19 16:08	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 16:08	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 16:08	75-01-4	
Xylene (Total)	**190**	ug/L	15.0	6.8	5		10/15/19 16:08	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 16:08	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 16:08	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328894

Sample: CO56-PZM001 **Lab ID: 30328894002** Collected: 10/09/19 09:15 Received: 10/09/19 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	1.4	5		10/15/19 16:08	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 16:08	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/15/19 16:08	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		5		10/15/19 16:08	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%.	80-120		5		10/15/19 16:08	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		10/15/19 16:08	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		5		10/15/19 16:08	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.: 30328894

Sample: CODD-MWS **Lab ID: 30328894003** Collected: 10/09/19 09:51 Received: 10/09/19 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	2.7	5		10/15/19 20:42	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 20:42	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 20:42	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 20:42	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 20:42	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 20:42	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 20:42	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/15/19 20:42	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 20:42	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 20:42	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 20:42	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 20:42	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 20:42	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/15/19 20:42	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/15/19 20:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/15/19 20:42	108-10-1	
Acetone	**29.5J**	ug/L	50.0	28.0	5		10/15/19 20:42	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/15/19 20:42	107-13-1	
Benzene	**2790**	ug/L	500	169	500		10/15/19 21:07	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 20:42	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 20:42	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/15/19 20:42	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/15/19 20:42	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 20:42	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 20:42	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/15/19 20:42	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 20:42	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 20:42	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 20:42	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/15/19 20:42	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 20:42	74-95-3	
Ethylbenzene	**33.2**	ug/L	5.0	2.0	5		10/15/19 20:42	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/15/19 20:42	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 20:42	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 20:42	75-09-2	
Naphthalene	**21600**	ug/L	1000	410	500		10/15/19 21:07	91-20-3	
Styrene	**342**	ug/L	5.0	1.6	5		10/15/19 20:42	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 20:42	127-18-4	
Toluene	**1350**	ug/L	5.0	1.6	5		10/15/19 20:42	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/15/19 20:42	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/15/19 20:42	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 20:42	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 20:42	75-01-4	
Xylene (Total)	**856**	ug/L	15.0	6.8	5		10/15/19 20:42	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 20:42	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 20:42	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328894

Sample: CODD-MWS **Lab ID: 30328894003** Collected: 10/09/19 09:51 Received: 10/09/19 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	1.4	5		10/15/19 20:42	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 20:42	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/15/19 20:42	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		5		10/15/19 20:42	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		5		10/15/19 20:42	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		10/15/19 20:42	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		10/15/19 20:42	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328894

Sample: COAA-MWS **Lab ID: 30328894004** Collected: 10/09/19 10:54 Received: 10/09/19 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	2.7	5		10/15/19 21:31	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 21:31	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 21:31	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 21:31	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 21:31	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 21:31	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 21:31	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/15/19 21:31	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 21:31	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 21:31	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 21:31	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 21:31	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 21:31	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/15/19 21:31	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/15/19 21:31	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/15/19 21:31	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/15/19 21:31	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/15/19 21:31	107-13-1	
Benzene	**523**	ug/L	5.0	1.7	5		10/15/19 21:31	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 21:31	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 21:31	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/15/19 21:31	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/15/19 21:31	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 21:31	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 21:31	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/15/19 21:31	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 21:31	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 21:31	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 21:31	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/15/19 21:31	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 21:31	74-95-3	
Ethylbenzene	**13.7**	ug/L	5.0	2.0	5		10/15/19 21:31	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/15/19 21:31	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 21:31	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 21:31	75-09-2	
Naphthalene	**13600**	ug/L	1000	410	500		10/15/19 21:56	91-20-3	
Styrene	**112**	ug/L	5.0	1.6	5		10/15/19 21:31	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 21:31	127-18-4	
Toluene	**212**	ug/L	5.0	1.6	5		10/15/19 21:31	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/15/19 21:31	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/15/19 21:31	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 21:31	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 21:31	75-01-4	
Xylene (Total)	**325**	ug/L	15.0	6.8	5		10/15/19 21:31	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 21:31	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 21:31	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328894

Sample: COAA-MWS **Lab ID: 30328894004** Collected: 10/09/19 10:54 Received: 10/09/19 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	1.4	5		10/15/19 21:31	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 21:31	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/15/19 21:31	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		5		10/15/19 21:31	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	80-120		5		10/15/19 21:31	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		10/15/19 21:31	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		5		10/15/19 21:31	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328894

Sample: COCC-MWS **Lab ID: 30328894005** Collected: 10/09/19 11:39 Received: 10/09/19 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	2.7	5		10/15/19 22:21	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 22:21	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 22:21	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 22:21	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 22:21	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 22:21	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 22:21	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/15/19 22:21	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 22:21	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 22:21	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 22:21	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 22:21	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 22:21	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/15/19 22:21	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/15/19 22:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/15/19 22:21	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/15/19 22:21	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/15/19 22:21	107-13-1	
Benzene	**413**	ug/L	5.0	1.7	5		10/15/19 22:21	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 22:21	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 22:21	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/15/19 22:21	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/15/19 22:21	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 22:21	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 22:21	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/15/19 22:21	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 22:21	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 22:21	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 22:21	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/15/19 22:21	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 22:21	74-95-3	
Ethylbenzene	**12.4**	ug/L	5.0	2.0	5		10/15/19 22:21	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/15/19 22:21	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 22:21	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 22:21	75-09-2	
Naphthalene	**11500**	ug/L	1000	410	500		10/15/19 22:45	91-20-3	
Styrene	**91.5**	ug/L	5.0	1.6	5		10/15/19 22:21	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 22:21	127-18-4	
Toluene	**152**	ug/L	5.0	1.6	5		10/15/19 22:21	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/15/19 22:21	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/15/19 22:21	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 22:21	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 22:21	75-01-4	
Xylene (Total)	**301**	ug/L	15.0	6.8	5		10/15/19 22:21	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 22:21	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 22:21	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328894

Sample: COCC-MWS **Lab ID: 30328894005** Collected: 10/09/19 11:39 Received: 10/09/19 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	1.4	5		10/15/19 22:21	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 22:21	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/15/19 22:21	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%.	78-122		5		10/15/19 22:21	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		5		10/15/19 22:21	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		10/15/19 22:21	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		10/15/19 22:21	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328894

Sample: CO26-PZM007 **Lab ID: 30328894006** Collected: 10/09/19 12:22 Received: 10/09/19 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	0.55	1		10/15/19 16:34	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 16:34	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/15/19 16:34	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 16:34	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/15/19 16:34	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/15/19 16:34	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/15/19 16:34	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/15/19 16:34	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/15/19 16:34	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 16:34	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 16:34	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/15/19 16:34	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/15/19 16:34	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/15/19 16:34	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/15/19 16:34	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/15/19 16:34	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/15/19 16:34	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/15/19 16:34	107-13-1	
Benzene	**3.9**	ug/L	1.0	0.34	1		10/15/19 16:34	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/15/19 16:34	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/15/19 16:34	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/15/19 16:34	75-25-2	
Bromomethane	**1.5**	ug/L	1.0	0.73	1		10/15/19 16:34	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 16:34	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/15/19 16:34	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/15/19 16:34	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/15/19 16:34	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/15/19 16:34	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/15/19 16:34	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/15/19 16:34	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/15/19 16:34	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/15/19 16:34	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/15/19 16:34	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/15/19 16:34	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/15/19 16:34	75-09-2	
Naphthalene	**38.5**	ug/L	2.0	0.82	1		10/15/19 16:34	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 16:34	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/15/19 16:34	127-18-4	
Toluene	**1.6**	ug/L	1.0	0.32	1		10/15/19 16:34	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 16:34	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/15/19 16:34	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/15/19 16:34	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 16:34	75-01-4	
Xylene (Total)	**2.0J**	ug/L	3.0	1.4	1		10/15/19 16:34	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 16:34	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 16:34	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328894

Sample: CO26-PZM007 **Lab ID: 30328894006** Collected: 10/09/19 12:22 Received: 10/09/19 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	0.28	1		10/15/19 16:34	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 16:34	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/15/19 16:34	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		10/15/19 16:34	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%.	80-120		1		10/15/19 16:34	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		10/15/19 16:34	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		1		10/15/19 16:34	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328894

Sample: COFF-MWS **Lab ID: 30328894007** Collected: 10/09/19 12:52 Received: 10/09/19 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	2.7	5		10/15/19 23:10	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 23:10	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 23:10	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 23:10	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 23:10	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 23:10	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 23:10	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/15/19 23:10	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 23:10	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 23:10	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 23:10	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 23:10	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 23:10	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/15/19 23:10	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/15/19 23:10	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/15/19 23:10	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/15/19 23:10	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/15/19 23:10	107-13-1	
Benzene	**290**	ug/L	5.0	1.7	5		10/15/19 23:10	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 23:10	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 23:10	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/15/19 23:10	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/15/19 23:10	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 23:10	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 23:10	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/15/19 23:10	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 23:10	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 23:10	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 23:10	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/15/19 23:10	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 23:10	74-95-3	
Ethylbenzene	**15.4**	ug/L	5.0	2.0	5		10/15/19 23:10	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/15/19 23:10	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 23:10	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 23:10	75-09-2	
Naphthalene	**8010**	ug/L	1000	410	500		10/15/19 23:34	91-20-3	
Styrene	**38.0**	ug/L	5.0	1.6	5		10/15/19 23:10	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 23:10	127-18-4	
Toluene	**143**	ug/L	5.0	1.6	5		10/15/19 23:10	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/15/19 23:10	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/15/19 23:10	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 23:10	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 23:10	75-01-4	
Xylene (Total)	**259**	ug/L	15.0	6.8	5		10/15/19 23:10	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 23:10	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 23:10	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328894

Sample: COFF-MWS **Lab ID: 30328894007** Collected: 10/09/19 12:52 Received: 10/09/19 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	1.4	5		10/15/19 23:10	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 23:10	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/15/19 23:10	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		10/15/19 23:10	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		5		10/15/19 23:10	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		10/15/19 23:10	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		5		10/15/19 23:10	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328894

Sample: CO58-PZM001 **Lab ID: 30328894008** Collected: 10/09/19 13:31 Received: 10/09/19 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	0.55	1		10/15/19 17:24	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 17:24	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/15/19 17:24	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 17:24	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/15/19 17:24	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/15/19 17:24	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/15/19 17:24	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/15/19 17:24	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/15/19 17:24	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 17:24	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 17:24	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/15/19 17:24	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/15/19 17:24	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/15/19 17:24	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/15/19 17:24	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/15/19 17:24	108-10-1	
Acetone	**6.8J**	ug/L	10.0	5.6	1		10/15/19 17:24	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/15/19 17:24	107-13-1	
Benzene	**174**	ug/L	1.0	0.34	1		10/15/19 17:24	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/15/19 17:24	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/15/19 17:24	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/15/19 17:24	75-25-2	
Bromomethane	**1.1**	ug/L	1.0	0.73	1		10/15/19 17:24	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 17:24	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/15/19 17:24	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/15/19 17:24	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/15/19 17:24	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/15/19 17:24	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/15/19 17:24	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/15/19 17:24	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/15/19 17:24	74-95-3	
Ethylbenzene	**9.4**	ug/L	1.0	0.40	1		10/15/19 17:24	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/15/19 17:24	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/15/19 17:24	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/15/19 17:24	75-09-2	
Naphthalene	**1870**	ug/L	40.0	16.4	20		10/15/19 17:49	91-20-3	
Styrene	**21.5**	ug/L	1.0	0.33	1		10/15/19 17:24	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/15/19 17:24	127-18-4	
Toluene	**75.4**	ug/L	1.0	0.32	1		10/15/19 17:24	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 17:24	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/15/19 17:24	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/15/19 17:24	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 17:24	75-01-4	
Xylene (Total)	**156**	ug/L	3.0	1.4	1		10/15/19 17:24	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 17:24	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 17:24	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328894

Sample: CO58-PZM001 **Lab ID: 30328894008** Collected: 10/09/19 13:31 Received: 10/09/19 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	0.28	1		10/15/19 17:24	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 17:24	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/15/19 17:24	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%.	78-122		1		10/15/19 17:24	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	80-120		1		10/15/19 17:24	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		1		10/15/19 17:24	2037-26-5	
Dibromofluoromethane (S)	89	%.	80-120		1		10/15/19 17:24	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328894

Sample: Trip Blank **Lab ID: 30328894009** Collected: 10/09/19 00:01 Received: 10/09/19 23:45 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	0.55	1		10/15/19 14:53	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 14:53	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/15/19 14:53	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 14:53	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/15/19 14:53	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/15/19 14:53	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/15/19 14:53	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.55	1		10/15/19 14:53	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/15/19 14:53	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 14:53	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 14:53	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/15/19 14:53	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/15/19 14:53	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1.5	1		10/15/19 14:53	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.58	1		10/15/19 14:53	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.42	1		10/15/19 14:53	108-10-1	
Acetone	**6.7J**	ug/L	5.0	5.6	1		10/15/19 14:53	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/15/19 14:53	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		10/15/19 14:53	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/15/19 14:53	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/15/19 14:53	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/15/19 14:53	75-25-2	
Bromomethane	**0.82J**	ug/L	1.0	0.73	1		10/15/19 14:53	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 14:53	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/15/19 14:53	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/15/19 14:53	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/15/19 14:53	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/15/19 14:53	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/15/19 14:53	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/15/19 14:53	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/15/19 14:53	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/15/19 14:53	100-41-4	
Iodomethane	ND	ug/L	1.0	0.52	1		10/15/19 14:53	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/15/19 14:53	1634-04-4	
Methylene Chloride	**1.8**	ug/L	1.0	0.64	1		10/15/19 14:53	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		10/15/19 14:53	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 14:53	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/15/19 14:53	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 14:53	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 14:53	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/15/19 14:53	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.57	1		10/15/19 14:53	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 14:53	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.4	1		10/15/19 14:53	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 14:53	156-59-2	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30328894

Sample: Trip Blank **Lab ID: 30328894009** Collected: 10/09/19 00:01 Received: 10/09/19 23:45 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	0.29	1		10/15/19 14:53	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		10/15/19 14:53	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 14:53	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.58	1		10/15/19 14:53	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		1		10/15/19 14:53	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%.	80-120		1		10/15/19 14:53	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		10/15/19 14:53	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		1		10/15/19 14:53	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30328894

QC Batch: 366219 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30328894001, 30328894002, 30328894003, 30328894004, 30328894005, 30328894006, 30328894007, 30328894008, 30328894009

METHOD BLANK: 1776369 Matrix: Water
Associated Lab Samples: 30328894001, 30328894002, 30328894003, 30328894004, 30328894005, 30328894006, 30328894007, 30328894008, 30328894009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/15/19 14:28	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/15/19 14:28	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/15/19 14:28	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/15/19 14:28	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/15/19 14:28	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/15/19 14:28	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/15/19 14:28	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/15/19 14:28	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/15/19 14:28	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/15/19 14:28	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/15/19 14:28	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/15/19 14:28	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/15/19 14:28	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/15/19 14:28	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/15/19 14:28	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/15/19 14:28	
Acetone	ug/L	10.0 U	10.0	5.6	10/15/19 14:28	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/15/19 14:28	
Benzene	ug/L	1.0 U	1.0	0.34	10/15/19 14:28	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/15/19 14:28	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/15/19 14:28	
Bromoform	ug/L	1.0 U	1.0	0.56	10/15/19 14:28	
Bromomethane	ug/L	0.97J	1.0	0.73	10/15/19 14:28	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/15/19 14:28	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/15/19 14:28	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/15/19 14:28	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/15/19 14:28	
Chloroform	ug/L	1.0 U	1.0	0.39	10/15/19 14:28	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/15/19 14:28	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/15/19 14:28	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/15/19 14:28	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/15/19 14:28	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/15/19 14:28	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/15/19 14:28	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/15/19 14:28	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/15/19 14:28	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/15/19 14:28	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/15/19 14:28	
Styrene	ug/L	1.0 U	1.0	0.33	10/15/19 14:28	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/15/19 14:28	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30328894

METHOD BLANK: 1776369 Matrix: Water

Associated Lab Samples: 30328894001, 30328894002, 30328894003, 30328894004, 30328894005, 30328894006, 30328894007, 30328894008, 30328894009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.32	10/15/19 14:28	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/15/19 14:28	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/15/19 14:28	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/15/19 14:28	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/15/19 14:28	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/15/19 14:28	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/15/19 14:28	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/15/19 14:28	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/15/19 14:28	
1,2-Dichloroethane-d4 (S)	%.	93	80-120		10/15/19 14:28	
4-Bromofluorobenzene (S)	%.	99	78-122		10/15/19 14:28	
Dibromofluoromethane (S)	%.	96	80-120		10/15/19 14:28	
Toluene-d8 (S)	%.	98	80-120		10/15/19 14:28	

LABORATORY CONTROL SAMPLE: 1776370

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	17.1	85	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	95	70-130	
1,1,2-Trichloroethane	ug/L	20	19.0	95	70-130	
1,1-Dichloroethane	ug/L	20	17.4	87	68-121	
1,1-Dichloroethene	ug/L	20	16.5	82	63-129	
1,2,3-Trichloropropane	ug/L	20	19.0	95	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	15.8	79	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	19.8	99	70-130	
1,2-Dichlorobenzene	ug/L	20	18.7	94	70-130	
1,2-Dichloroethane	ug/L	20	17.4	87	67-117	
1,2-Dichloropropane	ug/L	20	19.2	96	69-121	
1,4-Dichlorobenzene	ug/L	20	18.9	94	70-130	
2-Butanone (MEK)	ug/L	20	18.2	91	59-128	
2-Hexanone	ug/L	20	20.3	101	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.9	99	63-126	
Acetone	ug/L	20	21.9	109	37-150	
Acrylonitrile	ug/L	20	20.4	102	62-128	
Benzene	ug/L	20	18.9	94	70-130	
Bromochloromethane	ug/L	20	20.3	102	59-137	
Bromodichloromethane	ug/L	20	18.4	92	70-130	
Bromoform	ug/L	20	14.8	74	65-130	
Bromomethane	ug/L	20	13.6	68	45-148	
Carbon disulfide	ug/L	20	17.6	88	55-123	
Carbon tetrachloride	ug/L	20	17.6	88	69-126	
Chlorobenzene	ug/L	20	19.4	97	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30328894

LABORATORY CONTROL SAMPLE: 1776370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	23.0	115	68-146	
Chloroform	ug/L	20	17.7	88	69-116	
Chloromethane	ug/L	20	18.4	92	56-129	
cis-1,2-Dichloroethene	ug/L	20	17.5	88	66-118	
cis-1,3-Dichloropropene	ug/L	20	18.0	90	70-130	
Dibromochloromethane	ug/L	20	17.7	89	70-130	
Dibromomethane	ug/L	20	19.1	95	70-130	
Ethylbenzene	ug/L	20	19.7	98	70-130	
Iodomethane	ug/L	20	11.3J	56	10-175	
Methyl-tert-butyl ether	ug/L	20	18.2	91	70-130	
Methylene Chloride	ug/L	20	18.5	92	65-124	
Naphthalene	ug/L	20	18.8	94	69-135	
Styrene	ug/L	20	19.0	95	70-130	
Tetrachloroethene	ug/L	20	19.3	96	70-130	
Toluene	ug/L	20	19.3	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.7	84	64-123	
trans-1,3-Dichloropropene	ug/L	20	18.3	92	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	14.1	71	37-119	
Trichloroethene	ug/L	20	18.6	93	70-130	
Trichlorofluoromethane	ug/L	20	22.5	113	64-163	
Vinyl acetate	ug/L	20	13.9	69	45-129	
Vinyl chloride	ug/L	20	22.2	111	70-130	
Xylene (Total)	ug/L	60	57.6	96	70-130	
1,2-Dichloroethane-d4 (S)	%.			95	80-120	
4-Bromofluorobenzene (S)	%.			99	78-122	
Dibromofluoromethane (S)	%.			97	80-120	
Toluene-d8 (S)	%.			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1776371 1776372

Parameter	Units	30328894002 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	5.0 U	100	100	82.7	83.8	83	84	52-123	1	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	83.4	80.9	83	81	67-127	3	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	83.9	82.2	84	82	55-118	2	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	81.4	86.7	81	87	60-117	6	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	80.9	77.7	81	78	68-118	4	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	76.6	75.0	77	75	62-126	2	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	85.0	85.6	85	86	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	66.2	67.8	66	68	46-130	2	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	87.5	85.7	87	86	69-124	2	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	85.1	83.5	85	84	66-116	2	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	77.3	81.7	77	82	67-117	6	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	90.9	86.5	91	87	61-128	5	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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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30328894

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1776371 1776372

Parameter	Units	30328894002 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	5.0 U	100	100	85.0	83.7	85	84	68-116	2	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	84.6	84.5	85	84	63-175	0	30	
2-Hexanone	ug/L	50.0 U	100	100	78.7	86.0	79	86	65-151	9	30	
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	83.1	86.7	83	87	66-149	4	30	
Acetone	ug/L	28.2J	100	100	110	130	81	102	10-175	17	30	
Acrylonitrile	ug/L	20.0 U	100	100	81.2	80.2	81	80	42-165	1	30	
Benzene	ug/L	248	100	100	316	328	68	80	67-119	4	30	
Bromochloromethane	ug/L	5.0 U	100	100	94.6	94.7	95	95	64-124	0	30	
Bromodichloromethane	ug/L	5.0 U	100	100	82.0	82.1	82	82	67-126	0	30	
Bromoform	ug/L	5.0 U	100	100	61.1	58.8	61	59	43-114	4	30	
Bromomethane	ug/L	11.0	100	100	33.0	41.3	22	30	10-164	22	30	
Carbon disulfide	ug/L	5.0 U	100	100	73.0	70.8	73	71	37-135	3	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	81.4	82.6	81	83	60-137	1	30	
Chlorobenzene	ug/L	5.0 U	100	100	90.4	90.1	90	90	68-119	0	30	
Chloroethane	ug/L	5.0 U	100	100	105	114	105	114	54-169	9	30	
Chloroform	ug/L	5.0 U	100	100	88.3	86.0	88	86	69-113	3	30	
Chloromethane	ug/L	5.0 U	100	100	77.7	90.2	78	90	43-159	15	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	82.7	80.8	83	81	65-121	2	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	78.7	75.1	79	75	61-120	5	30	
Dibromochloromethane	ug/L	5.0 U	100	100	75.4	79.0	75	79	56-121	5	30	
Dibromomethane	ug/L	5.0 U	100	100	83.0	85.0	83	85	56-133	2	30	
Ethylbenzene	ug/L	8.6	100	100	95.8	96.4	87	88	69-127	1	30	
Iodomethane	ug/L	250 U	100	100	23.1J	45.6J	23	46	10-152		30	
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	76.7	76.2	77	76	70-130	1	30	
Methylene Chloride	ug/L	5.0 U	100	100	81.3	82.9	81	83	49-144	2	30	
Naphthalene	ug/L	2200	200	200	2260	2710	26	251	60-136	18	30	MH,ML
Styrene	ug/L	38.9	100	100	126	129	87	91	65-120	3	30	
Tetrachloroethene	ug/L	5.0 U	100	100	79.4	88.3	79	88	64-123	11	30	
Toluene	ug/L	61.4	100	100	146	146	85	84	70-130	0	30	
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	77.7	74.7	78	75	66-119	4	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	77.6	81.7	78	82	52-117	5	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	58.6	54.9	59	55	13-100	6	30	
Trichloroethene	ug/L	5.0 U	100	100	87.5	83.5	87	84	63-125	5	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	98.2	108	98	108	43-186	10	30	
Vinyl acetate	ug/L	5.0 U	100	100	61.2	63.4	61	63	35-150	4	30	
Vinyl chloride	ug/L	5.0 U	100	100	96.4	106	96	106	60-133	9	30	
Xylene (Total)	ug/L	190	300	300	439	455	83	88	69-128	3	30	
1,2-Dichloroethane-d4 (S)	%.						94	95	80-120			
4-Bromofluorobenzene (S)	%.						101	101	78-122			
Dibromofluoromethane (S)	%.						95	98	80-120			
Toluene-d8 (S)	%.						100	99	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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(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30328894

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.
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.: 30328894

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30328894001	**COBB-MWS**	EPA 8260B	366219		
30328894002	**CO56-PZM001**	EPA 8260B	366219		
30328894003	**CODD-MWS**	EPA 8260B	366219		
30328894004	**COAA-MWS**	EPA 8260B	366219		
30328894005	**COCC-MWS**	EPA 8260B	366219		
30328894006	**CO26-PZM007**	EPA 8260B	366219		
30328894007	**COFF-MWS**	EPA 8260B	366219		
30328894008	**CO58-PZM001**	EPA 8260B	366219		
30328894009	**Trip Blank**	EPA 8260B	366219		

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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
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: 190275M-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# : 30328894

#	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	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	Resi	Pace Project No./ Lab I.D.
2	COBB-MWS					10/9	0836		3				X					Y	X		001
3	CO56-PZM001					10/9	0915		3				X						X		002
4	CODD-MWS					10/9	0951		3				X						X		003
5	COAA-MWS					10/9	1054		3				X						X		004
6	COCC-MWS					10/9	1139		3				X						X		005
7	CO26-PZM009					10/9	1222		3				X						X		006
8	COFF-MWS					10/9	1252		3				X						X		007
9	CO58-PZM001					10/9	1331		3				X						X		008
10	Trip Blank					10/9			2				X						X		009
									26												

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 package	Joshua Barna ARM	10/9/19	14 30	GMB/Pace	10/9/19	15:25				
no validation	GMB/Pace	10/9/19	19:40	RDS Pace	10/9/19	2000		Y		
	RDS Pace	10/9/19	2345	Brian Mumma	10-9-19	2345	1.0	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joshua Barna
SIGNATURE of SAMPLER: Joshua Barna
DATE Signed (MM/DD/YY): 10/09/19

*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# 30328894

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label BLM
LIMS Login BLM

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 1.0 °C Correction Factor: 0 °C Final Temp: 1.0 °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: BLM 10-10-19
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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix		✓	.	16.
All containers meet method preservation requirements.	✓			Initial when completed BLM / Date/time of preservation / Lot # of added preservative
Headspace in VOA Vials (>6mm):	✓	.		17. One Trip Blank Vial has headspace
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad 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 17, 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.: 30329185

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2019. 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.: 30329185

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
Florida: Cert E871149 SEKS WET
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.: 30329185

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30329185001	**CO55-PZM000**	Water	10/10/19 08:08	10/10/19 23:50
30329185002	**COGG-MWS**	Water	10/10/19 08:49	10/10/19 23:50
30329185003	**CO35-PZM013**	Water	10/10/19 09:28	10/10/19 23:50
30329185004	**SW18-PZM008**	Water	10/10/19 10:12	10/10/19 23:50
30329185005	**CO59-PZM002**	Water	10/10/19 10:50	10/10/19 23:50
30329185006	**CO57-PZM002**	Water	10/10/19 11:59	10/10/19 23:50
30329185007	**CO120-PZM009**	Water	10/10/19 13:15	10/10/19 23:50
30329185008	**Trip Blank**	Water	10/10/19 00:01	10/10/19 23:50

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30329185

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30329185001	**CO55-PZM000**	EPA 8260B	LEL	53	PASI-PA
30329185002	**COGG-MWS**	EPA 8260B	LEL	53	PASI-PA
30329185003	**CO35-PZM013**	EPA 8260B	LEL	53	PASI-PA
30329185004	**SW18-PZM008**	EPA 8260B	LEL	53	PASI-PA
30329185005	**CO59-PZM002**	EPA 8260B	LEL	53	PASI-PA
30329185006	**CO57-PZM002**	EPA 8260B	LEL	53	PASI-PA
30329185007	**CO120-PZM009**	EPA 8260B	LEL	53	PASI-PA
30329185008	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329185

Sample: CO55-PZM000 **Lab ID: 30329185001** Collected: 10/10/19 08:08 Received: 10/10/19 23:50 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	0.55	1		10/15/19 15:43	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 15:43	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/15/19 15:43	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 15:43	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/15/19 15:43	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/15/19 15:43	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/15/19 15:43	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/15/19 15:43	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/15/19 15:43	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 15:43	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 15:43	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/15/19 15:43	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/15/19 15:43	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/15/19 15:43	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/15/19 15:43	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/15/19 15:43	108-10-1	
Acetone	**15.4**	ug/L	10.0	5.6	1		10/15/19 15:43	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/15/19 15:43	107-13-1	
Benzene	**23.5**	ug/L	1.0	0.34	1		10/15/19 15:43	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/15/19 15:43	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/15/19 15:43	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/15/19 15:43	75-25-2	
Bromomethane	**4.2**	ug/L	1.0	0.73	1		10/15/19 15:43	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 15:43	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/15/19 15:43	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/15/19 15:43	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/15/19 15:43	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/15/19 15:43	67-66-3	
Chloromethane	**1.9**	ug/L	1.0	0.40	1		10/15/19 15:43	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/15/19 15:43	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/15/19 15:43	74-95-3	
Ethylbenzene	**0.63J**	ug/L	1.0	0.40	1		10/15/19 15:43	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/15/19 15:43	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/15/19 15:43	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/15/19 15:43	75-09-2	
Naphthalene	**45.4**	ug/L	2.0	0.82	1		10/15/19 15:43	91-20-3	
Styrene	**0.43J**	ug/L	1.0	0.33	1		10/15/19 15:43	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/15/19 15:43	127-18-4	
Toluene	**7.6**	ug/L	1.0	0.32	1		10/15/19 15:43	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 15:43	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/15/19 15:43	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/15/19 15:43	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 15:43	75-01-4	
Xylene (Total)	**10.6**	ug/L	3.0	1.4	1		10/15/19 15:43	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 15:43	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 15:43	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329185

Sample: CO55-PZM000 **Lab ID: 30329185001** Collected: 10/10/19 08:08 Received: 10/10/19 23:50 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	0.28	1		10/15/19 15:43	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 15:43	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/15/19 15:43	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		10/15/19 15:43	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		1		10/15/19 15:43	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		10/15/19 15:43	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		1		10/15/19 15:43	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329185

Sample: COGG-MWS **Lab ID: 30329185002** Collected: 10/10/19 08:49 Received: 10/10/19 23:50 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	2.7	5		10/15/19 18:39	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 18:39	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 18:39	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 18:39	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 18:39	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 18:39	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 18:39	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/15/19 18:39	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 18:39	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 18:39	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 18:39	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 18:39	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 18:39	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/15/19 18:39	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/15/19 18:39	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/15/19 18:39	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/15/19 18:39	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/15/19 18:39	107-13-1	
Benzene	**202**	ug/L	5.0	1.7	5		10/15/19 18:39	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 18:39	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 18:39	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/15/19 18:39	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/15/19 18:39	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 18:39	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 18:39	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/15/19 18:39	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 18:39	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 18:39	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 18:39	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/15/19 18:39	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 18:39	74-95-3	
Ethylbenzene	**9.9**	ug/L	5.0	2.0	5		10/15/19 18:39	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/15/19 18:39	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 18:39	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 18:39	75-09-2	
Naphthalene	**1390**	ug/L	10.0	4.1	5		10/15/19 18:39	91-20-3	
Styrene	**22.9**	ug/L	5.0	1.6	5		10/15/19 18:39	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 18:39	127-18-4	
Toluene	**76.7**	ug/L	5.0	1.6	5		10/15/19 18:39	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/15/19 18:39	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/15/19 18:39	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 18:39	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 18:39	75-01-4	
Xylene (Total)	**153**	ug/L	15.0	6.8	5		10/15/19 18:39	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 18:39	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 18:39	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329185

Sample: COGG-MWS **Lab ID: 30329185002** Collected: 10/10/19 08:49 Received: 10/10/19 23:50 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	1.4	5		10/15/19 18:39	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 18:39	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/15/19 18:39	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		5		10/15/19 18:39	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		5		10/15/19 18:39	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		10/15/19 18:39	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		10/15/19 18:39	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329185

Sample: CO35-PZM013 **Lab ID: 30329185003** Collected: 10/10/19 09:28 Received: 10/10/19 23:50 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	2.7	5		10/15/19 19:03	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 19:03	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 19:03	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 19:03	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 19:03	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 19:03	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 19:03	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/15/19 19:03	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 19:03	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 19:03	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 19:03	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 19:03	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 19:03	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/15/19 19:03	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/15/19 19:03	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/15/19 19:03	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/15/19 19:03	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/15/19 19:03	107-13-1	
Benzene	**116**	ug/L	5.0	1.7	5		10/15/19 19:03	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/15/19 19:03	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 19:03	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/15/19 19:03	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/15/19 19:03	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 19:03	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/15/19 19:03	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/15/19 19:03	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 19:03	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 19:03	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 19:03	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/15/19 19:03	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/15/19 19:03	74-95-3	
Ethylbenzene	**2.5J**	ug/L	5.0	2.0	5		10/15/19 19:03	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/15/19 19:03	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/15/19 19:03	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/15/19 19:03	75-09-2	
Naphthalene	**481**	ug/L	10.0	4.1	5		10/15/19 19:03	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 19:03	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/15/19 19:03	127-18-4	
Toluene	**21.1**	ug/L	5.0	1.6	5		10/15/19 19:03	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/15/19 19:03	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/15/19 19:03	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/15/19 19:03	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 19:03	75-01-4	
Xylene (Total)	**38.3**	ug/L	15.0	6.8	5		10/15/19 19:03	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/15/19 19:03	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/15/19 19:03	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329185

Sample: CO35-PZM013 **Lab ID: 30329185003** Collected: 10/10/19 09:28 Received: 10/10/19 23:50 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	1.4	5		10/15/19 19:03	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/15/19 19:03	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/15/19 19:03	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		10/15/19 19:03	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%.	80-120		5		10/15/19 19:03	17060-07-0	
Toluene-d8 (S)	92	%.	80-120		5		10/15/19 19:03	2037-26-5	
Dibromofluoromethane (S)	104	%.	80-120		5		10/15/19 19:03	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329185

Sample: SW18-PZM008 **Lab ID: 30329185004** Collected: 10/10/19 10:12 Received: 10/10/19 23:50 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	2.7	5		10/16/19 16:24	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 16:24	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 16:24	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 16:24	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 16:24	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 16:24	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 16:24	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/16/19 16:24	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 16:24	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 16:24	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 16:24	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 16:24	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 16:24	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/16/19 16:24	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/16/19 16:24	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/16/19 16:24	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/16/19 16:24	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/16/19 16:24	107-13-1	
Benzene	**44.8**	ug/L	5.0	1.7	5		10/16/19 16:24	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 16:24	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 16:24	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/16/19 16:24	75-25-2	
Bromomethane	**4.3J**	ug/L	5.0	3.6	5		10/16/19 16:24	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 16:24	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 16:24	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/16/19 16:24	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 16:24	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 16:24	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 16:24	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/16/19 16:24	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 16:24	74-95-3	
Ethylbenzene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 16:24	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/16/19 16:24	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 16:24	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 16:24	75-09-2	
Naphthalene	**213**	ug/L	10.0	4.1	5		10/16/19 16:24	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 16:24	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 16:24	127-18-4	
Toluene	**4.9J**	ug/L	5.0	1.6	5		10/16/19 16:24	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/16/19 16:24	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/16/19 16:24	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 16:24	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 16:24	75-01-4	
Xylene (Total)	**12.7J**	ug/L	15.0	6.8	5		10/16/19 16:24	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 16:24	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 16:24	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329185

Sample: SW18-PZM008 **Lab ID: 30329185004** Collected: 10/10/19 10:12 Received: 10/10/19 23:50 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	1.4	5		10/16/19 16:24	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 16:24	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/16/19 16:24	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		5		10/16/19 16:24	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		5		10/16/19 16:24	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		10/16/19 16:24	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		10/16/19 16:24	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329185

Sample: CO59-PZM002 **Lab ID: 30329185005** Collected: 10/10/19 10:50 Received: 10/10/19 23:50 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	0.55	1		10/16/19 14:20	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 14:20	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/16/19 14:20	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 14:20	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/16/19 14:20	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/16/19 14:20	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/16/19 14:20	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/16/19 14:20	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/16/19 14:20	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 14:20	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 14:20	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/16/19 14:20	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/16/19 14:20	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/16/19 14:20	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/16/19 14:20	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/16/19 14:20	108-10-1	
Acetone	**6.2J**	ug/L	10.0	5.6	1		10/16/19 14:20	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/16/19 14:20	107-13-1	
Benzene	**4.6**	ug/L	1.0	0.34	1		10/16/19 14:20	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/16/19 14:20	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/16/19 14:20	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/16/19 14:20	75-25-2	
Bromomethane	**1.8**	ug/L	1.0	0.73	1		10/16/19 14:20	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 14:20	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/16/19 14:20	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/16/19 14:20	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/16/19 14:20	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/16/19 14:20	67-66-3	
Chloromethane	**1.5**	ug/L	1.0	0.40	1		10/16/19 14:20	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/16/19 14:20	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/16/19 14:20	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/16/19 14:20	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/16/19 14:20	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/16/19 14:20	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/16/19 14:20	75-09-2	
Naphthalene	**19.9**	ug/L	2.0	0.82	1		10/16/19 14:20	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 14:20	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/16/19 14:20	127-18-4	
Toluene	**1.5**	ug/L	1.0	0.32	1		10/16/19 14:20	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 14:20	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/16/19 14:20	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/16/19 14:20	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 14:20	75-01-4	
Xylene (Total)	**3.1**	ug/L	3.0	1.4	1		10/16/19 14:20	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 14:20	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 14:20	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329185

Sample: CO59-PZM002 **Lab ID: 30329185005** Collected: 10/10/19 10:50 Received: 10/10/19 23:50 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	0.28	1		10/16/19 14:20	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 14:20	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/16/19 14:20	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	78-122		1		10/16/19 14:20	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	80-120		1		10/16/19 14:20	17060-07-0	
Toluene-d8 (S)	103	%.	80-120		1		10/16/19 14:20	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		1		10/16/19 14:20	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329185

Sample: CO57-PZM002 **Lab ID: 30329185006** Collected: 10/10/19 11:59 Received: 10/10/19 23:50 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	0.55	1		10/16/19 14:45	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 14:45	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/16/19 14:45	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 14:45	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/16/19 14:45	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/16/19 14:45	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/16/19 14:45	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/16/19 14:45	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/16/19 14:45	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 14:45	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 14:45	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/16/19 14:45	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/16/19 14:45	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/16/19 14:45	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/16/19 14:45	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/16/19 14:45	108-10-1	
Acetone	**9.1J**	ug/L	10.0	5.6	1		10/16/19 14:45	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/16/19 14:45	107-13-1	
Benzene	**2.4**	ug/L	1.0	0.34	1		10/16/19 14:45	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/16/19 14:45	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/16/19 14:45	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/16/19 14:45	75-25-2	
Bromomethane	**0.92J**	ug/L	1.0	0.73	1		10/16/19 14:45	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 14:45	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/16/19 14:45	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/16/19 14:45	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/16/19 14:45	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/16/19 14:45	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/16/19 14:45	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/16/19 14:45	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/16/19 14:45	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/16/19 14:45	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/16/19 14:45	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/16/19 14:45	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/16/19 14:45	75-09-2	
Naphthalene	**4.6**	ug/L	2.0	0.82	1		10/16/19 14:45	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 14:45	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/16/19 14:45	127-18-4	
Toluene	**0.74J**	ug/L	1.0	0.32	1		10/16/19 14:45	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 14:45	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/16/19 14:45	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/16/19 14:45	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 14:45	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		10/16/19 14:45	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 14:45	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 14:45	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329185

Sample: CO57-PZM002 **Lab ID: 30329185006** Collected: 10/10/19 11:59 Received: 10/10/19 23:50 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	0.28	1		10/16/19 14:45	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 14:45	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/16/19 14:45	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		10/16/19 14:45	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	80-120		1		10/16/19 14:45	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		10/16/19 14:45	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		10/16/19 14:45	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329185

Sample: CO120-PZM009 **Lab ID: 30329185007** Collected: 10/10/19 13:15 Received: 10/10/19 23:50 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	2.7	5		10/16/19 17:14	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 17:14	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 17:14	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 17:14	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 17:14	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 17:14	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 17:14	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/16/19 17:14	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 17:14	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 17:14	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 17:14	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 17:14	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 17:14	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/16/19 17:14	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/16/19 17:14	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/16/19 17:14	108-10-1	
Acetone	**29.5J**	ug/L	50.0	28.0	5		10/16/19 17:14	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/16/19 17:14	107-13-1	
Benzene	**586**	ug/L	5.0	1.7	5		10/16/19 17:14	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 17:14	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 17:14	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/16/19 17:14	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/16/19 17:14	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 17:14	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 17:14	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/16/19 17:14	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 17:14	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 17:14	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 17:14	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/16/19 17:14	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 17:14	74-95-3	
Ethylbenzene	**34.5**	ug/L	5.0	2.0	5		10/16/19 17:14	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/16/19 17:14	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 17:14	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 17:14	75-09-2	
Naphthalene	**38200**	ug/L	1000	410	500		10/16/19 17:39	91-20-3	
Styrene	**187**	ug/L	5.0	1.6	5		10/16/19 17:14	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 17:14	127-18-4	
Toluene	**481**	ug/L	5.0	1.6	5		10/16/19 17:14	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/16/19 17:14	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/16/19 17:14	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 17:14	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 17:14	75-01-4	
Xylene (Total)	**852**	ug/L	15.0	6.8	5		10/16/19 17:14	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 17:14	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 17:14	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329185

Sample: CO120-PZM009 **Lab ID: 30329185007** Collected: 10/10/19 13:15 Received: 10/10/19 23:50 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	1.4	5		10/16/19 17:14	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 17:14	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/16/19 17:14	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		10/16/19 17:14	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		5		10/16/19 17:14	17060-07-0	
Toluene-d8 (S)	101	%.	80-120		5		10/16/19 17:14	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		10/16/19 17:14	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329185

Sample: Trip Blank **Lab ID: 30329185008** Collected: 10/10/19 00:01 Received: 10/10/19 23:50 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	0.55	1		10/15/19 15:18	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 15:18	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/15/19 15:18	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 15:18	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/15/19 15:18	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/15/19 15:18	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/15/19 15:18	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.55	1		10/15/19 15:18	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/15/19 15:18	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 15:18	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 15:18	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/15/19 15:18	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/15/19 15:18	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1.5	1		10/15/19 15:18	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.58	1		10/15/19 15:18	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.42	1		10/15/19 15:18	108-10-1	
Acetone	**7.4J**	ug/L	5.0	5.6	1		10/15/19 15:18	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/15/19 15:18	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		10/15/19 15:18	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/15/19 15:18	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/15/19 15:18	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/15/19 15:18	75-25-2	
Bromomethane	**0.89J**	ug/L	1.0	0.73	1		10/15/19 15:18	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 15:18	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/15/19 15:18	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/15/19 15:18	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/15/19 15:18	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/15/19 15:18	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/15/19 15:18	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/15/19 15:18	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/15/19 15:18	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/15/19 15:18	100-41-4	
Iodomethane	ND	ug/L	1.0	0.52	1		10/15/19 15:18	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/15/19 15:18	1634-04-4	
Methylene Chloride	**1.6**	ug/L	1.0	0.64	1		10/15/19 15:18	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		10/15/19 15:18	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/15/19 15:18	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/15/19 15:18	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 15:18	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 15:18	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/15/19 15:18	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.57	1		10/15/19 15:18	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/15/19 15:18	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.4	1		10/15/19 15:18	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/15/19 15:18	156-59-2	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329185

Sample: Trip Blank **Lab ID: 30329185008** Collected: 10/10/19 00:01 Received: 10/10/19 23:50 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	0.29	1		10/15/19 15:18	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		10/15/19 15:18	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/15/19 15:18	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.58	1		10/15/19 15:18	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		10/15/19 15:18	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		1		10/15/19 15:18	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		10/15/19 15:18	2037-26-5	
Dibromofluoromethane (S)	94	%.	80-120		1		10/15/19 15:18	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30329185

QC Batch: 366219 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30329185001, 30329185002, 30329185003, 30329185008

METHOD BLANK: 1776369 Matrix: Water
Associated Lab Samples: 30329185001, 30329185002, 30329185003, 30329185008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/15/19 14:28	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/15/19 14:28	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/15/19 14:28	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/15/19 14:28	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/15/19 14:28	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/15/19 14:28	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/15/19 14:28	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/15/19 14:28	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/15/19 14:28	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/15/19 14:28	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/15/19 14:28	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/15/19 14:28	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/15/19 14:28	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/15/19 14:28	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/15/19 14:28	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/15/19 14:28	
Acetone	ug/L	10.0 U	10.0	5.6	10/15/19 14:28	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/15/19 14:28	
Benzene	ug/L	1.0 U	1.0	0.34	10/15/19 14:28	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/15/19 14:28	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/15/19 14:28	
Bromoform	ug/L	1.0 U	1.0	0.56	10/15/19 14:28	
Bromomethane	ug/L	0.97J	1.0	0.73	10/15/19 14:28	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/15/19 14:28	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/15/19 14:28	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/15/19 14:28	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/15/19 14:28	
Chloroform	ug/L	1.0 U	1.0	0.39	10/15/19 14:28	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/15/19 14:28	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/15/19 14:28	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/15/19 14:28	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/15/19 14:28	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/15/19 14:28	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/15/19 14:28	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/15/19 14:28	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/15/19 14:28	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/15/19 14:28	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/15/19 14:28	
Styrene	ug/L	1.0 U	1.0	0.33	10/15/19 14:28	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/15/19 14:28	
Toluene	ug/L	1.0 U	1.0	0.32	10/15/19 14:28	

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.: 30329185

METHOD BLANK: 1776369 Matrix: Water
Associated Lab Samples: 30329185001, 30329185002, 30329185003, 30329185008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/15/19 14:28	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/15/19 14:28	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/15/19 14:28	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/15/19 14:28	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/15/19 14:28	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/15/19 14:28	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/15/19 14:28	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/15/19 14:28	
1,2-Dichloroethane-d4 (S)	%.	93	80-120		10/15/19 14:28	
4-Bromofluorobenzene (S)	%.	99	78-122		10/15/19 14:28	
Dibromofluoromethane (S)	%.	96	80-120		10/15/19 14:28	
Toluene-d8 (S)	%.	98	80-120		10/15/19 14:28	

LABORATORY CONTROL SAMPLE: 1776370

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	17.1	85	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	95	70-130	
1,1,2-Trichloroethane	ug/L	20	19.0	95	70-130	
1,1-Dichloroethane	ug/L	20	17.4	87	68-121	
1,1-Dichloroethene	ug/L	20	16.5	82	63-129	
1,2,3-Trichloropropane	ug/L	20	19.0	95	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	15.8	79	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	19.8	99	70-130	
1,2-Dichlorobenzene	ug/L	20	18.7	94	70-130	
1,2-Dichloroethane	ug/L	20	17.4	87	67-117	
1,2-Dichloropropane	ug/L	20	19.2	96	69-121	
1,4-Dichlorobenzene	ug/L	20	18.9	94	70-130	
2-Butanone (MEK)	ug/L	20	18.2	91	59-128	
2-Hexanone	ug/L	20	20.3	101	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.9	99	63-126	
Acetone	ug/L	20	21.9	109	37-150	
Acrylonitrile	ug/L	20	20.4	102	62-128	
Benzene	ug/L	20	18.9	94	70-130	
Bromochloromethane	ug/L	20	20.3	102	59-137	
Bromodichloromethane	ug/L	20	18.4	92	70-130	
Bromoform	ug/L	20	14.8	74	65-130	
Bromomethane	ug/L	20	13.6	68	45-148	
Carbon disulfide	ug/L	20	17.6	88	55-123	
Carbon tetrachloride	ug/L	20	17.6	88	69-126	
Chlorobenzene	ug/L	20	19.4	97	70-130	
Chloroethane	ug/L	20	23.0	115	68-146	
Chloroform	ug/L	20	17.7	88	69-116	

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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.: 30329185

LABORATORY CONTROL SAMPLE: 1776370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	18.4	92	56-129	
cis-1,2-Dichloroethene	ug/L	20	17.5	88	66-118	
cis-1,3-Dichloropropene	ug/L	20	18.0	90	70-130	
Dibromochloromethane	ug/L	20	17.7	89	70-130	
Dibromomethane	ug/L	20	19.1	95	70-130	
Ethylbenzene	ug/L	20	19.7	98	70-130	
Iodomethane	ug/L	20	11.3J	56	10-175	
Methyl-tert-butyl ether	ug/L	20	18.2	91	70-130	
Methylene Chloride	ug/L	20	18.5	92	65-124	
Naphthalene	ug/L	20	18.8	94	69-135	
Styrene	ug/L	20	19.0	95	70-130	
Tetrachloroethene	ug/L	20	19.3	96	70-130	
Toluene	ug/L	20	19.3	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.7	84	64-123	
trans-1,3-Dichloropropene	ug/L	20	18.3	92	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	14.1	71	37-119	
Trichloroethene	ug/L	20	18.6	93	70-130	
Trichlorofluoromethane	ug/L	20	22.5	113	64-163	
Vinyl acetate	ug/L	20	13.9	69	45-129	
Vinyl chloride	ug/L	20	22.2	111	70-130	
Xylene (Total)	ug/L	60	57.6	96	70-130	
1,2-Dichloroethane-d4 (S)	%.			95	80-120	
4-Bromofluorobenzene (S)	%.			99	78-122	
Dibromofluoromethane (S)	%.			97	80-120	
Toluene-d8 (S)	%.			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1776371 1776372

Parameter	Units	30328894002 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	5.0 U	100	100	82.7	83.8	83	84	52-123	1	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	83.4	80.9	83	81	67-127	3	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	83.9	82.2	84	82	55-118	2	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	81.4	86.7	81	87	60-117	6	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	80.9	77.7	81	78	68-118	4	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	76.6	75.0	77	75	62-126	2	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	85.0	85.6	85	86	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	66.2	67.8	66	68	46-130	2	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	87.5	85.7	87	86	69-124	2	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	85.1	83.5	85	84	66-116	2	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	77.3	81.7	77	82	67-117	6	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	90.9	86.5	91	87	61-128	5	30	
1,4-Dichlorobenzene	ug/L	5.0 U	100	100	85.0	83.7	85	84	68-116	2	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	84.6	84.5	85	84	63-175	0	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30329185

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1776371 1776372

Parameter	Units	30328894002 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	50.0 U	100	100	78.7	86.0	79	86	65-151	9	30	
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	83.1	86.7	83	87	66-149	4	30	
Acetone	ug/L	28.2J	100	100	110	130	81	102	10-175	17	30	
Acrylonitrile	ug/L	20.0 U	100	100	81.2	80.2	81	80	42-165	1	30	
Benzene	ug/L	248	100	100	316	328	68	80	67-119	4	30	
Bromochloromethane	ug/L	5.0 U	100	100	94.6	94.7	95	95	64-124	0	30	
Bromodichloromethane	ug/L	5.0 U	100	100	82.0	82.1	82	82	67-126	0	30	
Bromoform	ug/L	5.0 U	100	100	61.1	58.8	61	59	43-114	4	30	
Bromomethane	ug/L	11.0	100	100	33.0	41.3	22	30	10-164	22	30	
Carbon disulfide	ug/L	5.0 U	100	100	73.0	70.8	73	71	37-135	3	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	81.4	82.6	81	83	60-137	1	30	
Chlorobenzene	ug/L	5.0 U	100	100	90.4	90.1	90	90	68-119	0	30	
Chloroethane	ug/L	5.0 U	100	100	105	114	105	114	54-169	9	30	
Chloroform	ug/L	5.0 U	100	100	88.3	86.0	88	86	69-113	3	30	
Chloromethane	ug/L	5.0 U	100	100	77.7	90.2	78	90	43-159	15	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	82.7	80.8	83	81	65-121	2	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	78.7	75.1	79	75	61-120	5	30	
Dibromochloromethane	ug/L	5.0 U	100	100	75.4	79.0	75	79	56-121	5	30	
Dibromomethane	ug/L	5.0 U	100	100	83.0	85.0	83	85	56-133	2	30	
Ethylbenzene	ug/L	8.6	100	100	95.8	96.4	87	88	69-127	1	30	
Iodomethane	ug/L	250 U	100	100	23.1J	45.6J	23	46	10-152		30	
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	76.7	76.2	77	76	70-130	1	30	
Methylene Chloride	ug/L	5.0 U	100	100	81.3	82.9	81	83	49-144	2	30	
Naphthalene	ug/L	2200	200	200	2260	2710	26	251	60-136	18	30	MH,ML
Styrene	ug/L	38.9	100	100	126	129	87	91	65-120	3	30	
Tetrachloroethene	ug/L	5.0 U	100	100	79.4	88.3	79	88	64-123	11	30	
Toluene	ug/L	61.4	100	100	146	146	85	84	70-130	0	30	
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	77.7	74.7	78	75	66-119	4	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	77.6	81.7	78	82	52-117	5	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	58.6	54.9	59	55	13-100	6	30	
Trichloroethene	ug/L	5.0 U	100	100	87.5	83.5	87	84	63-125	5	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	98.2	108	98	108	43-186	10	30	
Vinyl acetate	ug/L	5.0 U	100	100	61.2	63.4	61	63	35-150	4	30	
Vinyl chloride	ug/L	5.0 U	100	100	96.4	106	96	106	60-133	9	30	
Xylene (Total)	ug/L	190	300	300	439	455	83	88	69-128	3	30	
1,2-Dichloroethane-d4 (S)	%.						94	95	80-120			
4-Bromofluorobenzene (S)	%.						101	101	78-122			
Dibromofluoromethane (S)	%.						95	98	80-120			
Toluene-d8 (S)	%.						100	99	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30329185

QC Batch: 366417 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30329185004, 30329185005, 30329185006, 30329185007

METHOD BLANK: 1777370 Matrix: Water
Associated Lab Samples: 30329185004, 30329185005, 30329185006, 30329185007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/16/19 12:41	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/16/19 12:41	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/16/19 12:41	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/16/19 12:41	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/16/19 12:41	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/16/19 12:41	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/16/19 12:41	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/16/19 12:41	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/16/19 12:41	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/16/19 12:41	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/16/19 12:41	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/16/19 12:41	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/16/19 12:41	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/16/19 12:41	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/16/19 12:41	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/16/19 12:41	
Acetone	ug/L	10.0 U	10.0	5.6	10/16/19 12:41	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/16/19 12:41	
Benzene	ug/L	1.0 U	1.0	0.34	10/16/19 12:41	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/16/19 12:41	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/16/19 12:41	
Bromoform	ug/L	1.0 U	1.0	0.56	10/16/19 12:41	
Bromomethane	ug/L	0.92J	1.0	0.73	10/16/19 12:41	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/16/19 12:41	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/16/19 12:41	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/16/19 12:41	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/16/19 12:41	
Chloroform	ug/L	1.0 U	1.0	0.39	10/16/19 12:41	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/16/19 12:41	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/16/19 12:41	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/16/19 12:41	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/16/19 12:41	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/16/19 12:41	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/16/19 12:41	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/16/19 12:41	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/16/19 12:41	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/16/19 12:41	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/16/19 12:41	
Styrene	ug/L	1.0 U	1.0	0.33	10/16/19 12:41	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/16/19 12:41	
Toluene	ug/L	1.0 U	1.0	0.32	10/16/19 12:41	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30329185

METHOD BLANK: 1777370 Matrix: Water
Associated Lab Samples: 30329185004, 30329185005, 30329185006, 30329185007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/16/19 12:41	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/16/19 12:41	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/16/19 12:41	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/16/19 12:41	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/16/19 12:41	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/16/19 12:41	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/16/19 12:41	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/16/19 12:41	
1,2-Dichloroethane-d4 (S)	%.	100	80-120		10/16/19 12:41	
4-Bromofluorobenzene (S)	%.	101	78-122		10/16/19 12:41	
Dibromofluoromethane (S)	%.	93	80-120		10/16/19 12:41	
Toluene-d8 (S)	%.	100	80-120		10/16/19 12:41	

LABORATORY CONTROL SAMPLE: 1777371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.9	94	70-130	
1,1,1-Trichloroethane	ug/L	20	18.4	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	70-130	
1,1,2-Trichloroethane	ug/L	20	18.9	95	70-130	
1,1-Dichloroethane	ug/L	20	18.5	92	68-121	
1,1-Dichloroethene	ug/L	20	16.3	82	63-129	
1,2,3-Trichloropropane	ug/L	20	19.5	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	16.0	80	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	19.8	99	70-130	
1,2-Dichlorobenzene	ug/L	20	18.0	90	70-130	
1,2-Dichloroethane	ug/L	20	18.8	94	67-117	
1,2-Dichloropropane	ug/L	20	18.6	93	69-121	
1,4-Dichlorobenzene	ug/L	20	18.1	91	70-130	
2-Butanone (MEK)	ug/L	20	19.7	98	59-128	
2-Hexanone	ug/L	20	21.0	105	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	22.7	113	63-126	
Acetone	ug/L	20	25.1	126	37-150	
Acrylonitrile	ug/L	20	22.5	112	62-128	
Benzene	ug/L	20	19.2	96	70-130	
Bromochloromethane	ug/L	20	20.6	103	59-137	
Bromodichloromethane	ug/L	20	19.3	96	70-130	
Bromoform	ug/L	20	14.7	73	65-130	
Bromomethane	ug/L	20	16.2	81	45-148	
Carbon disulfide	ug/L	20	16.1	80	55-123	
Carbon tetrachloride	ug/L	20	18.6	93	69-126	
Chlorobenzene	ug/L	20	18.8	94	70-130	
Chloroethane	ug/L	20	31.1	156	68-146	L1
Chloroform	ug/L	20	18.8	94	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30329185

LABORATORY CONTROL SAMPLE: 1777371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	20.5	103	56-129	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	66-118	
cis-1,3-Dichloropropene	ug/L	20	17.3	87	70-130	
Dibromochloromethane	ug/L	20	17.8	89	70-130	
Dibromomethane	ug/L	20	19.1	96	70-130	
Ethylbenzene	ug/L	20	18.5	92	70-130	
Iodomethane	ug/L	20	15.9J	79	10-175	
Methyl-tert-butyl ether	ug/L	20	19.6	98	70-130	
Methylene Chloride	ug/L	20	20.2	101	65-124	
Naphthalene	ug/L	20	17.0	85	69-135	
Styrene	ug/L	20	18.6	93	70-130	
Tetrachloroethene	ug/L	20	17.2	86	70-130	
Toluene	ug/L	20	16.9	85	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.0	85	64-123	
trans-1,3-Dichloropropene	ug/L	20	17.0	85	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	14.8	74	37-119	
Trichloroethene	ug/L	20	17.6	88	70-130	
Trichlorofluoromethane	ug/L	20	26.2	131	64-163	
Vinyl acetate	ug/L	20	13.2	66	45-129	
Vinyl chloride	ug/L	20	23.8	119	70-130	
Xylene (Total)	ug/L	60	55.1	92	70-130	
1,2-Dichloroethane-d4 (S)	%.			101	80-120	
4-Bromofluorobenzene (S)	%.			98	78-122	
Dibromofluoromethane (S)	%.			109	80-120	
Toluene-d8 (S)	%.			91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777372 1777373

Parameter	Units	30329450003 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	5.0 U	100	100	86.2	85.4	86	85	52-123	1	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	85.1	80.2	85	80	67-127	6	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	80.5	79.7	81	80	55-118	1	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	92.7	84.1	93	84	60-117	10	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	80.1	73.9	80	74	68-118	8	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	77.7	71.5	78	72	62-126	8	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	86.8	82.5	87	83	56-129	5	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	69.5	64.3	69	64	46-130	8	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	87.1	88.3	87	88	69-124	1	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	81.7	82.0	82	82	66-116	0	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	83.9	82.8	84	83	67-117	1	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	85.1	83.9	85	84	61-128	1	30	
1,4-Dichlorobenzene	ug/L	5.0 U	100	100	84.9	81.7	85	82	68-116	4	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	82.2	70.6	82	71	63-175	15	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.: 30329185

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777372 1777373

Parameter	Units	30329450003 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	50.0 U	100	100	84.5	88.6	85	89	65-151	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	85.6	88.2	86	88	66-149	3	30	
Acetone	ug/L	50.0 U	100	100	101	97.5	75	72	10-175	3	30	
Acrylonitrile	ug/L	20.0 U	100	100	82.0	79.0	82	79	42-165	4	30	
Benzene	ug/L	152	100	100	235	229	83	77	67-119	3	30	
Bromochloromethane	ug/L	5.0 U	100	100	95.0	94.3	95	94	64-124	1	30	
Bromodichloromethane	ug/L	5.0 U	100	100	84.2	82.4	84	82	67-126	2	30	
Bromoform	ug/L	5.0 U	100	100	62.6	61.1	63	61	43-114	2	30	
Bromomethane	ug/L	5.1	100	100	35.1	52.8	30	48	10-164	40	30	R1
Carbon disulfide	ug/L	5.0 U	100	100	72.6	70.9	73	71	37-135	2	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	86.5	85.6	87	86	60-137	1	30	
Chlorobenzene	ug/L	5.0 U	100	100	88.5	86.9	88	87	68-119	2	30	
Chloroethane	ug/L	5.0 U	100	100	115	128	115	128	54-169	10	30	
Chloroform	ug/L	5.0 U	100	100	88.1	82.8	88	83	69-113	6	30	
Chloromethane	ug/L	5.0 U	100	100	75.0	77.0	75	77	43-159	3	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	85.1	77.4	85	77	65-121	10	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	77.7	79.0	78	79	61-120	2	30	
Dibromochloromethane	ug/L	5.0 U	100	100	78.6	80.2	79	80	56-121	2	30	
Dibromomethane	ug/L	5.0 U	100	100	84.5	83.1	85	83	56-133	2	30	
Ethylbenzene	ug/L	8.9	100	100	98.7	96.2	90	87	69-127	3	30	
Iodomethane	ug/L	250 U	100	100	38.9J	44.4J	39	44	10-152		30	
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	77.5	74.0	77	74	70-130	5	30	
Methylene Chloride	ug/L	5.0 U	100	100	83.6	77.6	84	78	49-144	8	30	
Naphthalene	ug/L	1620	100	100	1880	1840	260	223	60-136	2	30	MH
Styrene	ug/L	3.7J	100	100	94.0	87.4	90	84	65-120	7	30	
Tetrachloroethene	ug/L	5.0 U	100	100	91.9	83.1	92	83	64-123	10	30	
Toluene	ug/L	30.7	100	100	128	116	98	85	70-130	10	30	
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	76.4	69.8	76	70	66-119	9	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	87.2	82.6	87	83	52-117	5	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	61.3	62.6	61	63	13-100	2	30	
Trichloroethene	ug/L	5.0 U	100	100	85.4	82.8	85	83	63-125	3	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	110	117	110	117	43-186	7	30	
Vinyl acetate	ug/L	5.0 U	100	100	63.6	62.0	64	62	35-150	3	30	
Vinyl chloride	ug/L	5.0 U	100	100	95.5	91.4	95	91	60-133	4	30	
Xylene (Total)	ug/L	140	300	300	410	402	90	87	69-128	2	30	
1,2-Dichloroethane-d4 (S)	%.						103	98	80-120			
4-Bromofluorobenzene (S)	%.						97	98	78-122			
Dibromofluoromethane (S)	%.						98	98	80-120			
Toluene-d8 (S)	%.						105	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.: 30329185

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

SAMPLE QUALIFIERS

Sample: 30329185004

[1]	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

ANALYTE QUALIFIERS

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.: 30329185

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30329185001	**CO55-PZM000**	EPA 8260B	366219		
30329185002	**COGG-MWS**	EPA 8260B	366219		
30329185003	**CO35-PZM013**	EPA 8260B	366219		
30329185004	**SW18-PZM008**	EPA 8260B	366417		
30329185005	**CO59-PZM002**	EPA 8260B	366417		
30329185006	**CO57-PZM002**	EPA 8260B	366417		
30329185007	**CO120-PZM009**	EPA 8260B	366417		
30329185008	**Trip Blank**	EPA 8260B	366219		

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

Page: 1 of 1

on 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
To:	jcalenda@enviroanalyticsgroup.com	Purchase Order No.:	EAG-SPT-6989	Pace Quote Reference:	
:	314-620-3056 Fax:	Project Name:	COA IM GW Sampling	Pace Project Manager:	Samantha Bayura
ested Due Date/TAT:	5 Day	Project Number:	190275M-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)

WO#: 30329185

30329185

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	Residu	Pace Project No./ Lab I.D.
CO55-PZM000	WT	G			10/10	0808		3				x						x		001
COGG-MWS	WT	G			10/10	0849		3				x						x		002
CO35-PZM013	WT	G			10/10	0928		3				x						x		003
SW18-PZM008	WT	G			10/10	1012		3				x						x		004
CO59-PZM002	WT	G			10/10	1050		3				x						x		005
CO57-PZM002	WT	G			10/10	1159		3				x						x		006
CO120-PZM009	WT	G			10/10	1315		3				x						x		007
Trip Blank	WT				10/10			2				x						x		008
								23												

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 package	[signature] Bonn ARM	10/10/19	1600	[signature] / PACE	10/10/19	1600				
no validation	[signature] / PACE	10/10/19	1915	RDS PACE	10-10-19	1935		Y		
	RDS PACE	10/10/19	2350	Marion L (Clay)	10-10-19	2350	.2	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joshua Bonn

SIGNATURE of SAMPLER: [signature] Bonn

DATE Signed (MM/DD/YY): 10/10/19

*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 Group Project # #_30329185

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Label MLC

Tracking #: N/A

LIMS Login MLC

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 °C Correction Factor: 0 °C Final Temp: .2 °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: MLC 10/11/19
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 sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. exceptions: (VOA) coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16.	
All containers meet method preservation requirements.	✓			Initial when completed MLC / Date/time of preservation / Lot # of added preservative	
Headspace in VOA Vials (>6mm):	✓			17. Headspace greater than 6mm in both Trip Blanks	
Trip Blank Present:	✓			18.	
Trip Blank Custody Seals Present	✓				
Rad 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 17, 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.: 30329450

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on October 11, 2019. 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.: 30329450

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
Florida: Cert E871149 SEKS WET
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.: 30329450

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30329450001	**CPO2-PZM007**	Water	10/11/19 08:58	10/11/19 23:15
30329450002	**CP21-PZM004**	Water	10/11/19 09:48	10/11/19 23:15
30329450003	**CP23-PZM008**	Water	10/11/19 10:28	10/11/19 23:15
30329450004	**CP60-PZM001**	Water	10/11/19 11:14	10/11/19 23:15
30329450005	**COL-MWS**	Water	10/11/19 12:45	10/11/19 23:15
30329450006	**Trip Blank**	Water	10/11/19 00:01	10/11/19 23:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30329450

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30329450001	**CPO2-PZM007**	EPA 8260B	LEL	53	PASI-PA
30329450002	**CP21-PZM004**	EPA 8260B	LEL	53	PASI-PA
30329450003	**CP23-PZM008**	EPA 8260B	LEL	53	PASI-PA
30329450004	**CP60-PZM001**	EPA 8260B	LEL	53	PASI-PA
30329450005	**COL-MWS**	EPA 8260B	LEL	53	PASI-PA
30329450006	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329450

Sample: CPO2-PZM007 **Lab ID: 30329450001** Collected: 10/11/19 08:58 Received: 10/11/19 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	0.55	1		10/16/19 13:31	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 13:31	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/16/19 13:31	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 13:31	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/16/19 13:31	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/16/19 13:31	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/16/19 13:31	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/16/19 13:31	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/16/19 13:31	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 13:31	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 13:31	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/16/19 13:31	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/16/19 13:31	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/16/19 13:31	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/16/19 13:31	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/16/19 13:31	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/16/19 13:31	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/16/19 13:31	107-13-1	
Benzene	**1.1**	ug/L	1.0	0.34	1		10/16/19 13:31	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/16/19 13:31	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/16/19 13:31	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/16/19 13:31	75-25-2	
Bromomethane	**0.76J**	ug/L	1.0	0.73	1		10/16/19 13:31	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 13:31	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/16/19 13:31	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/16/19 13:31	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/16/19 13:31	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/16/19 13:31	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/16/19 13:31	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/16/19 13:31	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/16/19 13:31	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/16/19 13:31	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/16/19 13:31	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/16/19 13:31	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/16/19 13:31	75-09-2	
Naphthalene	**0.83J**	ug/L	2.0	0.82	1		10/16/19 13:31	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 13:31	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/16/19 13:31	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 13:31	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 13:31	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/16/19 13:31	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/16/19 13:31	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 13:31	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		10/16/19 13:31	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 13:31	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 13:31	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329450

Sample: CPO2-PZM007 **Lab ID: 30329450001** Collected: 10/11/19 08:58 Received: 10/11/19 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	0.28	1		10/16/19 13:31	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 13:31	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/16/19 13:31	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	78-122		1		10/16/19 13:31	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		1		10/16/19 13:31	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		10/16/19 13:31	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		1		10/16/19 13:31	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329450

Sample: CP21-PZM004 **Lab ID: 30329450002** Collected: 10/11/19 09:48 Received: 10/11/19 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	0.55	1		10/16/19 13:56	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 13:56	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/16/19 13:56	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 13:56	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/16/19 13:56	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/16/19 13:56	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/16/19 13:56	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/16/19 13:56	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/16/19 13:56	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 13:56	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 13:56	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/16/19 13:56	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/16/19 13:56	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/16/19 13:56	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/16/19 13:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/16/19 13:56	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/16/19 13:56	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/16/19 13:56	107-13-1	
Benzene	**16.0**	ug/L	1.0	0.34	1		10/16/19 13:56	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/16/19 13:56	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/16/19 13:56	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/16/19 13:56	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/16/19 13:56	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 13:56	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/16/19 13:56	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/16/19 13:56	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/16/19 13:56	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/16/19 13:56	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/16/19 13:56	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/16/19 13:56	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/16/19 13:56	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/16/19 13:56	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/16/19 13:56	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/16/19 13:56	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/16/19 13:56	75-09-2	
Naphthalene	**44.3**	ug/L	2.0	0.82	1		10/16/19 13:56	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 13:56	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/16/19 13:56	127-18-4	
Toluene	**1.1**	ug/L	1.0	0.32	1		10/16/19 13:56	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 13:56	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/16/19 13:56	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/16/19 13:56	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 13:56	75-01-4	
Xylene (Total)	**2.5J**	ug/L	3.0	1.4	1		10/16/19 13:56	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 13:56	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 13:56	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329450

Sample: CP21-PZM004 **Lab ID: 30329450002** Collected: 10/11/19 09:48 Received: 10/11/19 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	0.28	1		10/16/19 13:56	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 13:56	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/16/19 13:56	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		10/16/19 13:56	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		10/16/19 13:56	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		1		10/16/19 13:56	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		1		10/16/19 13:56	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329450

Sample: CP23-PZM008 **Lab ID: 30329450003** Collected: 10/11/19 10:28 Received: 10/11/19 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	2.7	5		10/16/19 15:10	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 15:10	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 15:10	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 15:10	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 15:10	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 15:10	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 15:10	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/16/19 15:10	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 15:10	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 15:10	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 15:10	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 15:10	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 15:10	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/16/19 15:10	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/16/19 15:10	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/16/19 15:10	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/16/19 15:10	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/16/19 15:10	107-13-1	
Benzene	**152**	ug/L	5.0	1.7	5		10/16/19 15:10	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 15:10	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 15:10	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/16/19 15:10	75-25-2	
Bromomethane	**5.1**	ug/L	5.0	3.6	5		10/16/19 15:10	74-83-9	R1
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 15:10	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 15:10	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/16/19 15:10	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 15:10	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 15:10	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 15:10	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/16/19 15:10	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 15:10	74-95-3	
Ethylbenzene	**8.9**	ug/L	5.0	2.0	5		10/16/19 15:10	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/16/19 15:10	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 15:10	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 15:10	75-09-2	
Naphthalene	**1620**	ug/L	10.0	4.1	5		10/16/19 15:10	91-20-3	MH
Styrene	**3.7J**	ug/L	5.0	1.6	5		10/16/19 15:10	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 15:10	127-18-4	
Toluene	**30.7**	ug/L	5.0	1.6	5		10/16/19 15:10	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/16/19 15:10	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/16/19 15:10	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 15:10	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 15:10	75-01-4	
Xylene (Total)	**140**	ug/L	15.0	6.8	5		10/16/19 15:10	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 15:10	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 15:10	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329450

Sample: CP23-PZM008 **Lab ID: 30329450003** Collected: 10/11/19 10:28 Received: 10/11/19 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	1.4	5		10/16/19 15:10	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 15:10	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/16/19 15:10	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		5		10/16/19 15:10	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	80-120		5		10/16/19 15:10	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		10/16/19 15:10	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		10/16/19 15:10	1868-53-7	

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

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329450

Sample: CP60-PZM001 **Lab ID: 30329450004** Collected: 10/11/19 11:14 Received: 10/11/19 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	0.55	1		10/16/19 15:35	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 15:35	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/16/19 15:35	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 15:35	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/16/19 15:35	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/16/19 15:35	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/16/19 15:35	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/16/19 15:35	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/16/19 15:35	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 15:35	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 15:35	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/16/19 15:35	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/16/19 15:35	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/16/19 15:35	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/16/19 15:35	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/16/19 15:35	108-10-1	
Acetone	**12.8**	ug/L	10.0	5.6	1		10/16/19 15:35	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/16/19 15:35	107-13-1	
Benzene	**181**	ug/L	1.0	0.34	1		10/16/19 15:35	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/16/19 15:35	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/16/19 15:35	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/16/19 15:35	75-25-2	
Bromomethane	**3.9**	ug/L	1.0	0.73	1		10/16/19 15:35	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 15:35	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/16/19 15:35	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/16/19 15:35	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/16/19 15:35	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/16/19 15:35	67-66-3	
Chloromethane	**3.8**	ug/L	1.0	0.40	1		10/16/19 15:35	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/16/19 15:35	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/16/19 15:35	74-95-3	
Ethylbenzene	**5.8**	ug/L	1.0	0.40	1		10/16/19 15:35	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/16/19 15:35	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/16/19 15:35	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/16/19 15:35	75-09-2	
Naphthalene	**2100**	ug/L	40.0	16.4	20		10/16/19 15:59	91-20-3	
Styrene	**15.0**	ug/L	1.0	0.33	1		10/16/19 15:35	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/16/19 15:35	127-18-4	
Toluene	**13.4**	ug/L	1.0	0.32	1		10/16/19 15:35	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 15:35	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/16/19 15:35	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/16/19 15:35	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 15:35	75-01-4	
Xylene (Total)	**117**	ug/L	3.0	1.4	1		10/16/19 15:35	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 15:35	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 15:35	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329450

Sample: CP60-PZM001 **Lab ID: 30329450004** Collected: 10/11/19 11:14 Received: 10/11/19 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	0.28	1		10/16/19 15:35	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 15:35	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/16/19 15:35	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%.	78-122		1		10/16/19 15:35	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		1		10/16/19 15:35	17060-07-0	
Toluene-d8 (S)	89	%.	80-120		1		10/16/19 15:35	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		1		10/16/19 15:35	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329450

Sample: COL-MWS **Lab ID: 30329450005** Collected: 10/11/19 12:45 Received: 10/11/19 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	2.7	5		10/16/19 18:03	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 18:03	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 18:03	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 18:03	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 18:03	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 18:03	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 18:03	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/16/19 18:03	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 18:03	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 18:03	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 18:03	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 18:03	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 18:03	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/16/19 18:03	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/16/19 18:03	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/16/19 18:03	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/16/19 18:03	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/16/19 18:03	107-13-1	
Benzene	**14200**	ug/L	500	169	500		10/16/19 18:28	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 18:03	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 18:03	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/16/19 18:03	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/16/19 18:03	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 18:03	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 18:03	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/16/19 18:03	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 18:03	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 18:03	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 18:03	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/16/19 18:03	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 18:03	74-95-3	
Ethylbenzene	**242**	ug/L	5.0	2.0	5		10/16/19 18:03	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/16/19 18:03	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 18:03	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 18:03	75-09-2	
Naphthalene	**1500**	ug/L	10.0	4.1	5		10/16/19 18:03	91-20-3	
Styrene	**273**	ug/L	5.0	1.6	5		10/16/19 18:03	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 18:03	127-18-4	
Toluene	**7920**	ug/L	500	158	500		10/16/19 18:28	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/16/19 18:03	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/16/19 18:03	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 18:03	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 18:03	75-01-4	
Xylene (Total)	**1950**	ug/L	15.0	6.8	5		10/16/19 18:03	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 18:03	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 18:03	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329450

Sample: COL-MWS **Lab ID: 30329450005** Collected: 10/11/19 12:45 Received: 10/11/19 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	1.4	5		10/16/19 18:03	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 18:03	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/16/19 18:03	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	109	%.	78-122		5		10/16/19 18:03	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		5		10/16/19 18:03	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		10/16/19 18:03	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		5		10/16/19 18:03	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329450

Sample: Trip Blank **Lab ID: 30329450006** Collected: 10/11/19 00:01 Received: 10/11/19 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	0.55	1		10/16/19 13:06	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 13:06	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/16/19 13:06	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 13:06	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/16/19 13:06	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/16/19 13:06	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/16/19 13:06	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/16/19 13:06	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/16/19 13:06	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 13:06	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 13:06	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/16/19 13:06	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/16/19 13:06	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/16/19 13:06	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/16/19 13:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/16/19 13:06	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/16/19 13:06	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/16/19 13:06	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		10/16/19 13:06	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/16/19 13:06	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/16/19 13:06	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/16/19 13:06	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/16/19 13:06	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 13:06	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/16/19 13:06	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/16/19 13:06	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/16/19 13:06	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/16/19 13:06	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/16/19 13:06	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/16/19 13:06	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/16/19 13:06	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/16/19 13:06	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/16/19 13:06	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/16/19 13:06	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/16/19 13:06	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		10/16/19 13:06	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 13:06	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/16/19 13:06	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 13:06	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 13:06	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/16/19 13:06	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/16/19 13:06	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 13:06	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		10/16/19 13:06	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 13:06	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 13:06	10061-01-5	

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

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329450

Sample: Trip Blank **Lab ID: 30329450006** Collected: 10/11/19 00:01 Received: 10/11/19 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	0.28	1		10/16/19 13:06	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 13:06	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/16/19 13:06	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		10/16/19 13:06	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		1		10/16/19 13:06	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		1		10/16/19 13:06	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		1		10/16/19 13:06	1868-53-7	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30329450

QC Batch: 366417 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30329450001, 30329450002, 30329450003, 30329450004, 30329450005, 30329450006

METHOD BLANK: 1777370 Matrix: Water
Associated Lab Samples: 30329450001, 30329450002, 30329450003, 30329450004, 30329450005, 30329450006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/16/19 12:41	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/16/19 12:41	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/16/19 12:41	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/16/19 12:41	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/16/19 12:41	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/16/19 12:41	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/16/19 12:41	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/16/19 12:41	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/16/19 12:41	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/16/19 12:41	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/16/19 12:41	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/16/19 12:41	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/16/19 12:41	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/16/19 12:41	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/16/19 12:41	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/16/19 12:41	
Acetone	ug/L	10.0 U	10.0	5.6	10/16/19 12:41	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/16/19 12:41	
Benzene	ug/L	1.0 U	1.0	0.34	10/16/19 12:41	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/16/19 12:41	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/16/19 12:41	
Bromoform	ug/L	1.0 U	1.0	0.56	10/16/19 12:41	
Bromomethane	ug/L	0.92J	1.0	0.73	10/16/19 12:41	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/16/19 12:41	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/16/19 12:41	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/16/19 12:41	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/16/19 12:41	
Chloroform	ug/L	1.0 U	1.0	0.39	10/16/19 12:41	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/16/19 12:41	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/16/19 12:41	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/16/19 12:41	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/16/19 12:41	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/16/19 12:41	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/16/19 12:41	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/16/19 12:41	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/16/19 12:41	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/16/19 12:41	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/16/19 12:41	
Styrene	ug/L	1.0 U	1.0	0.33	10/16/19 12:41	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/16/19 12:41	
Toluene	ug/L	1.0 U	1.0	0.32	10/16/19 12:41	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30329450

METHOD BLANK: 1777370 Matrix: Water
Associated Lab Samples: 30329450001, 30329450002, 30329450003, 30329450004, 30329450005, 30329450006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/16/19 12:41	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/16/19 12:41	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/16/19 12:41	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/16/19 12:41	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/16/19 12:41	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/16/19 12:41	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/16/19 12:41	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/16/19 12:41	
1,2-Dichloroethane-d4 (S)	%.	100	80-120		10/16/19 12:41	
4-Bromofluorobenzene (S)	%.	101	78-122		10/16/19 12:41	
Dibromofluoromethane (S)	%.	93	80-120		10/16/19 12:41	
Toluene-d8 (S)	%.	100	80-120		10/16/19 12:41	

LABORATORY CONTROL SAMPLE: 1777371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.9	94	70-130	
1,1,1-Trichloroethane	ug/L	20	18.4	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	70-130	
1,1,2-Trichloroethane	ug/L	20	18.9	95	70-130	
1,1-Dichloroethane	ug/L	20	18.5	92	68-121	
1,1-Dichloroethene	ug/L	20	16.3	82	63-129	
1,2,3-Trichloropropane	ug/L	20	19.5	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	16.0	80	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	19.8	99	70-130	
1,2-Dichlorobenzene	ug/L	20	18.0	90	70-130	
1,2-Dichloroethane	ug/L	20	18.8	94	67-117	
1,2-Dichloropropane	ug/L	20	18.6	93	69-121	
1,4-Dichlorobenzene	ug/L	20	18.1	91	70-130	
2-Butanone (MEK)	ug/L	20	19.7	98	59-128	
2-Hexanone	ug/L	20	21.0	105	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	22.7	113	63-126	
Acetone	ug/L	20	25.1	126	37-150	
Acrylonitrile	ug/L	20	22.5	112	62-128	
Benzene	ug/L	20	19.2	96	70-130	
Bromochloromethane	ug/L	20	20.6	103	59-137	
Bromodichloromethane	ug/L	20	19.3	96	70-130	
Bromoform	ug/L	20	14.7	73	65-130	
Bromomethane	ug/L	20	16.2	81	45-148	
Carbon disulfide	ug/L	20	16.1	80	55-123	
Carbon tetrachloride	ug/L	20	18.6	93	69-126	
Chlorobenzene	ug/L	20	18.8	94	70-130	
Chloroethane	ug/L	20	31.1	156	68-146	L1
Chloroform	ug/L	20	18.8	94	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30329450

LABORATORY CONTROL SAMPLE: 1777371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	20.5	103	56-129	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	66-118	
cis-1,3-Dichloropropene	ug/L	20	17.3	87	70-130	
Dibromochloromethane	ug/L	20	17.8	89	70-130	
Dibromomethane	ug/L	20	19.1	96	70-130	
Ethylbenzene	ug/L	20	18.5	92	70-130	
Iodomethane	ug/L	20	15.9J	79	10-175	
Methyl-tert-butyl ether	ug/L	20	19.6	98	70-130	
Methylene Chloride	ug/L	20	20.2	101	65-124	
Naphthalene	ug/L	20	17.0	85	69-135	
Styrene	ug/L	20	18.6	93	70-130	
Tetrachloroethene	ug/L	20	17.2	86	70-130	
Toluene	ug/L	20	16.9	85	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.0	85	64-123	
trans-1,3-Dichloropropene	ug/L	20	17.0	85	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	14.8	74	37-119	
Trichloroethene	ug/L	20	17.6	88	70-130	
Trichlorofluoromethane	ug/L	20	26.2	131	64-163	
Vinyl acetate	ug/L	20	13.2	66	45-129	
Vinyl chloride	ug/L	20	23.8	119	70-130	
Xylene (Total)	ug/L	60	55.1	92	70-130	
1,2-Dichloroethane-d4 (S)	%.			101	80-120	
4-Bromofluorobenzene (S)	%.			98	78-122	
Dibromofluoromethane (S)	%.			109	80-120	
Toluene-d8 (S)	%.			91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777372 1777373

Parameter	Units	30329450003 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	5.0 U	100	100	86.2	85.4	86	85	52-123	1	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	85.1	80.2	85	80	67-127	6	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	80.5	79.7	81	80	55-118	1	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	92.7	84.1	93	84	60-117	10	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	80.1	73.9	80	74	68-118	8	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	77.7	71.5	78	72	62-126	8	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	86.8	82.5	87	83	56-129	5	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	69.5	64.3	69	64	46-130	8	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	87.1	88.3	87	88	69-124	1	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	81.7	82.0	82	82	66-116	0	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	83.9	82.8	84	83	67-117	1	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	85.1	83.9	85	84	61-128	1	30	
1,4-Dichlorobenzene	ug/L	5.0 U	100	100	84.9	81.7	85	82	68-116	4	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	82.2	70.6	82	71	63-175	15	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30329450

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777372 1777373

Parameter	Units	30329450003 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	50.0 U	100	100	84.5	88.6	85	89	65-151	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	85.6	88.2	86	88	66-149	3	30	
Acetone	ug/L	50.0 U	100	100	101	97.5	75	72	10-175	3	30	
Acrylonitrile	ug/L	20.0 U	100	100	82.0	79.0	82	79	42-165	4	30	
Benzene	ug/L	152	100	100	235	229	83	77	67-119	3	30	
Bromochloromethane	ug/L	5.0 U	100	100	95.0	94.3	95	94	64-124	1	30	
Bromodichloromethane	ug/L	5.0 U	100	100	84.2	82.4	84	82	67-126	2	30	
Bromoform	ug/L	5.0 U	100	100	62.6	61.1	63	61	43-114	2	30	
Bromomethane	ug/L	5.1	100	100	35.1	52.8	30	48	10-164	40	30	R1
Carbon disulfide	ug/L	5.0 U	100	100	72.6	70.9	73	71	37-135	2	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	86.5	85.6	87	86	60-137	1	30	
Chlorobenzene	ug/L	5.0 U	100	100	88.5	86.9	88	87	68-119	2	30	
Chloroethane	ug/L	5.0 U	100	100	115	128	115	128	54-169	10	30	
Chloroform	ug/L	5.0 U	100	100	88.1	82.8	88	83	69-113	6	30	
Chloromethane	ug/L	5.0 U	100	100	75.0	77.0	75	77	43-159	3	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	85.1	77.4	85	77	65-121	10	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	77.7	79.0	78	79	61-120	2	30	
Dibromochloromethane	ug/L	5.0 U	100	100	78.6	80.2	79	80	56-121	2	30	
Dibromomethane	ug/L	5.0 U	100	100	84.5	83.1	85	83	56-133	2	30	
Ethylbenzene	ug/L	8.9	100	100	98.7	96.2	90	87	69-127	3	30	
Iodomethane	ug/L	250 U	100	100	38.9J	44.4J	39	44	10-152		30	
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	77.5	74.0	77	74	70-130	5	30	
Methylene Chloride	ug/L	5.0 U	100	100	83.6	77.6	84	78	49-144	8	30	
Naphthalene	ug/L	1620	100	100	1880	1840	260	223	60-136	2	30	MH
Styrene	ug/L	3.7J	100	100	94.0	87.4	90	84	65-120	7	30	
Tetrachloroethene	ug/L	5.0 U	100	100	91.9	83.1	92	83	64-123	10	30	
Toluene	ug/L	30.7	100	100	128	116	98	85	70-130	10	30	
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	76.4	69.8	76	70	66-119	9	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	87.2	82.6	87	83	52-117	5	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	61.3	62.6	61	63	13-100	2	30	
Trichloroethene	ug/L	5.0 U	100	100	85.4	82.8	85	83	63-125	3	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	110	117	110	117	43-186	7	30	
Vinyl acetate	ug/L	5.0 U	100	100	63.6	62.0	64	62	35-150	3	30	
Vinyl chloride	ug/L	5.0 U	100	100	95.5	91.4	95	91	60-133	4	30	
Xylene (Total)	ug/L	140	300	300	410	402	90	87	69-128	2	30	
1,2-Dichloroethane-d4 (S)	%.						103	98	80-120			
4-Bromofluorobenzene (S)	%.						97	98	78-122			
Dibromofluoromethane (S)	%.						98	98	80-120			
Toluene-d8 (S)	%.						105	99	80-120			

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QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30329450

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

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.
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.: 30329450

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30329450001	**CPO2-PZM007**	EPA 8260B	366417		
30329450002	**CP21-PZM004**	EPA 8260B	366417		
30329450003	**CP23-PZM008**	EPA 8260B	366417		
30329450004	**CP60-PZM001**	EPA 8260B	366417		
30329450005	**COL-MWS**	EPA 8260B	366417		
30329450006	**Trip Blank**	EPA 8260B	366417		

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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:	190275M-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): Y

WO# : 30329450

30329450

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: VOC + NAPH by 8260	Resid	Pace Project No./ Lab I.D.
CP02-PZM007	WT	G			10/11/19	0858		3				X					X		CO1
CP21-PZM004	WT	G			10/11/19	0948		3				X					X		CO2
CO23-PZM008	WT	G			10/11/19	1028		3				X					X		CO3
CO60-PZM001	WT	G			10/11/19	1114		3				X					X		CO4
COL-MWS	WT	G			10/11/19	1245		3				X					X		CO5
Trip Blank	WT				10/11/19			2				X					X		CO6

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 Validation	Jmw Bauw ARM	10/11/19	1345	QMB/PACE	10/11/19	1550				
no package	QMB/PACE	10/11/19	19:40	RDS PACE	10/11/19	2000		Y		
	RDS PACE	10/11/19	2315	[signature]	10/11/19	23:15	2.1	X	N	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joshua Barna

SIGNATURE of SAMPLER: Jmw Bauw

DATE Signed (MM/DD/YY): 10/11/19

*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# 30329450

Label	DL
LIMS Login	DY

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 2.1 °C Correction Factor: 0 °C Final Temp: 2.1 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# DU 10-12-19 ~~CA3561~~ N/A	Date and Initials of person examining contents: DU 10-12-19
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 sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.	
All containers meet method preservation requirements.	✓			Initial when completed DL	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):		✓		17.	
Trip Blank Present:	✓			18.	
Trip Blank Custody Seals Present	✓				
Rad Samples Screened < 0.5 mrem/hr			✓	Initial when completed: DY	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 18, 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.: 30329644

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on October 14, 2019. 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.: 30329644

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
Florida: Cert E871149 SEKS WET
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.: 30329644

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30329644001	**COL-MWI**	Water	10/14/19 08:59	10/14/19 22:30
30329644002	**CO27-PZM046**	Water	10/14/19 09:41	10/14/19 22:30
30329644003	**CO27-PZM012**	Water	10/14/19 10:37	10/14/19 22:30
30329644004	**CO48-PZM044**	Water	10/14/19 12:16	10/14/19 22:30
30329644005	**CO47-PZM046**	Water	10/14/19 12:39	10/14/19 22:30
30329644006	**CO46-PZM047**	Water	10/14/19 13:05	10/14/19 22:30
30329644007	**CO45-PZM047**	Water	10/14/19 13:31	10/14/19 22:30
30329644008	**CO44-PZM048**	Water	10/14/19 13:54	10/14/19 22:30
30329644009	**Trip blank**	Water	10/14/19 00:01	10/14/19 22:30

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30329644

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30329644001	**COL-MWI**	EPA 8260B	LEL	53	PASI-PA
30329644002	**CO27-PZM046**	EPA 8260B	LEL	53	PASI-PA
30329644003	**CO27-PZM012**	EPA 8260B	LEL	53	PASI-PA
30329644004	**CO48-PZM044**	EPA 8260B	LEL	53	PASI-PA
30329644005	**CO47-PZM046**	EPA 8260B	LEL	53	PASI-PA
30329644006	**CO46-PZM047**	EPA 8260B	LEL	53	PASI-PA
30329644007	**CO45-PZM047**	EPA 8260B	LEL	53	PASI-PA
30329644008	**CO44-PZM048**	EPA 8260B	LEL	53	PASI-PA
30329644009	**Trip blank**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: COL-MWI **Lab ID: 30329644001** Collected: 10/14/19 08:59 Received: 10/14/19 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	2.7	5		10/16/19 17:02	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 17:02	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 17:02	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 17:02	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 17:02	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 17:02	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 17:02	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/16/19 17:02	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 17:02	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 17:02	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 17:02	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 17:02	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 17:02	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/16/19 17:02	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/16/19 17:02	591-78-6	ML
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/16/19 17:02	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/16/19 17:02	67-64-1	R1
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/16/19 17:02	107-13-1	
Benzene	**40800**	ug/L	500	169	500		10/16/19 17:27	71-43-2	ML
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 17:02	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 17:02	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/16/19 17:02	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/16/19 17:02	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 17:02	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 17:02	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/16/19 17:02	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 17:02	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 17:02	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 17:02	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/16/19 17:02	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 17:02	74-95-3	
Ethylbenzene	**268**	ug/L	5.0	2.0	5		10/16/19 17:02	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/16/19 17:02	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 17:02	1634-04-4	ML
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 17:02	75-09-2	
Naphthalene	**1270**	ug/L	10.0	4.1	5		10/16/19 17:02	91-20-3	ML
Styrene	**276**	ug/L	5.0	1.6	5		10/16/19 17:02	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 17:02	127-18-4	
Toluene	**5820**	ug/L	500	158	500		10/16/19 17:27	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/16/19 17:02	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/16/19 17:02	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 17:02	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 17:02	75-01-4	
Xylene (Total)	**1870**	ug/L	15.0	6.8	5		10/16/19 17:02	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 17:02	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 17:02	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.: 30329644

Sample: COL-MWI **Lab ID: 30329644001** Collected: 10/14/19 08:59 Received: 10/14/19 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	1.4	5		10/16/19 17:02	156-60-5	ML
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 17:02	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/16/19 17:02	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		5		10/16/19 17:02	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		5		10/16/19 17:02	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		10/16/19 17:02	2037-26-5	
Dibromofluoromethane (S)	90	%.	80-120		5		10/16/19 17:02	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: CO27-PZM046 **Lab ID: 30329644002** Collected: 10/14/19 09:41 Received: 10/14/19 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	2.7	5		10/16/19 19:55	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 19:55	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 19:55	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 19:55	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 19:55	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 19:55	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 19:55	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/16/19 19:55	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 19:55	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 19:55	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 19:55	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 19:55	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 19:55	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/16/19 19:55	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/16/19 19:55	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/16/19 19:55	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/16/19 19:55	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/16/19 19:55	107-13-1	
Benzene	**42200**	ug/L	2000	676	2000		10/16/19 20:19	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 19:55	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 19:55	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/16/19 19:55	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/16/19 19:55	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 19:55	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 19:55	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/16/19 19:55	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 19:55	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 19:55	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 19:55	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/16/19 19:55	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 19:55	74-95-3	
Ethylbenzene	**272**	ug/L	5.0	2.0	5		10/16/19 19:55	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/16/19 19:55	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 19:55	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 19:55	75-09-2	
Naphthalene	**1330**	ug/L	10.0	4.1	5		10/16/19 19:55	91-20-3	
Styrene	**277**	ug/L	5.0	1.6	5		10/16/19 19:55	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 19:55	127-18-4	
Toluene	**9880**	ug/L	2000	634	2000		10/16/19 20:19	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/16/19 19:55	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/16/19 19:55	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 19:55	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 19:55	75-01-4	
Xylene (Total)	**2020**	ug/L	15.0	6.8	5		10/16/19 19:55	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 19:55	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 19:55	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: CO27-PZM046 **Lab ID: 30329644002** Collected: 10/14/19 09:41 Received: 10/14/19 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	1.4	5		10/16/19 19:55	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 19:55	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/16/19 19:55	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	114	%.	78-122		5		10/16/19 19:55	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		5		10/16/19 19:55	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		10/16/19 19:55	2037-26-5	
Dibromofluoromethane (S)	88	%.	80-120		5		10/16/19 19:55	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: CO27-PZM012 **Lab ID: 30329644003** Collected: 10/14/19 10:37 Received: 10/14/19 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	2.7	5		10/16/19 15:22	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 15:22	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 15:22	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 15:22	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 15:22	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 15:22	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 15:22	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/16/19 15:22	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 15:22	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 15:22	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 15:22	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 15:22	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 15:22	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/16/19 15:22	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/16/19 15:22	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/16/19 15:22	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/16/19 15:22	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/16/19 15:22	107-13-1	
Benzene	**13000**	ug/L	200	67.6	200		10/16/19 15:47	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 15:22	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 15:22	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/16/19 15:22	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/16/19 15:22	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 15:22	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 15:22	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/16/19 15:22	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 15:22	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 15:22	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 15:22	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/16/19 15:22	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 15:22	74-95-3	
Ethylbenzene	**141**	ug/L	5.0	2.0	5		10/16/19 15:22	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/16/19 15:22	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 15:22	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 15:22	75-09-2	
Naphthalene	**905**	ug/L	10.0	4.1	5		10/16/19 15:22	91-20-3	
Styrene	**138**	ug/L	5.0	1.6	5		10/16/19 15:22	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 15:22	127-18-4	
Toluene	**3980**	ug/L	200	63.4	200		10/16/19 15:47	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/16/19 15:22	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/16/19 15:22	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 15:22	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 15:22	75-01-4	
Xylene (Total)	**1280**	ug/L	15.0	6.8	5		10/16/19 15:22	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 15:22	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 15:22	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: CO27-PZM012 **Lab ID: 30329644003** Collected: 10/14/19 10:37 Received: 10/14/19 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	1.4	5		10/16/19 15:22	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 15:22	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/16/19 15:22	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		5		10/16/19 15:22	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		5		10/16/19 15:22	17060-07-0	
Toluene-d8 (S)	103	%.	80-120		5		10/16/19 15:22	2037-26-5	
Dibromofluoromethane (S)	90	%.	80-120		5		10/16/19 15:22	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: CO48-PZM044 **Lab ID: 30329644004** Collected: 10/14/19 12:16 Received: 10/14/19 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	2.7	5		10/16/19 17:51	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 17:51	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 17:51	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 17:51	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 17:51	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 17:51	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 17:51	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/16/19 17:51	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 17:51	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 17:51	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 17:51	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 17:51	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 17:51	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/16/19 17:51	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/16/19 17:51	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/16/19 17:51	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/16/19 17:51	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/16/19 17:51	107-13-1	
Benzene	**22900**	ug/L	500	169	500		10/16/19 18:16	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 17:51	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 17:51	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/16/19 17:51	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/16/19 17:51	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 17:51	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 17:51	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/16/19 17:51	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 17:51	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 17:51	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 17:51	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/16/19 17:51	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 17:51	74-95-3	
Ethylbenzene	**325**	ug/L	5.0	2.0	5		10/16/19 17:51	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/16/19 17:51	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 17:51	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 17:51	75-09-2	
Naphthalene	**1630**	ug/L	10.0	4.1	5		10/16/19 17:51	91-20-3	
Styrene	**516**	ug/L	5.0	1.6	5		10/16/19 17:51	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 17:51	127-18-4	
Toluene	**11800**	ug/L	500	158	500		10/16/19 18:16	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/16/19 17:51	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/16/19 17:51	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 17:51	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 17:51	75-01-4	
Xylene (Total)	**2810**	ug/L	15.0	6.8	5		10/16/19 17:51	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 17:51	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 17:51	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: CO48-PZM044 **Lab ID: 30329644004** Collected: 10/14/19 12:16 Received: 10/14/19 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	1.4	5		10/16/19 17:51	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 17:51	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/16/19 17:51	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	78-122		5		10/16/19 17:51	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	80-120		5		10/16/19 17:51	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		10/16/19 17:51	2037-26-5	
Dibromofluoromethane (S)	90	%.	80-120		5		10/16/19 17:51	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: CO47-PZM046 **Lab ID: 30329644005** Collected: 10/14/19 12:39 Received: 10/14/19 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	2.7	5		10/16/19 16:12	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 16:12	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 16:12	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 16:12	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 16:12	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 16:12	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 16:12	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/16/19 16:12	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 16:12	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 16:12	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 16:12	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 16:12	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 16:12	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/16/19 16:12	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/16/19 16:12	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/16/19 16:12	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/16/19 16:12	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/16/19 16:12	107-13-1	
Benzene	**153000**	ug/L	1000	338	1000		10/17/19 21:04	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 16:12	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 16:12	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/16/19 16:12	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/16/19 16:12	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 16:12	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 16:12	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/16/19 16:12	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 16:12	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 16:12	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 16:12	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/16/19 16:12	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 16:12	74-95-3	
Ethylbenzene	**219**	ug/L	5.0	2.0	5		10/16/19 16:12	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/16/19 16:12	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 16:12	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 16:12	75-09-2	
Naphthalene	**541**	ug/L	10.0	4.1	5		10/16/19 16:12	91-20-3	
Styrene	**13.8**	ug/L	5.0	1.6	5		10/16/19 16:12	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 16:12	127-18-4	
Toluene	**5280**	ug/L	200	63.4	200		10/16/19 16:37	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/16/19 16:12	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/16/19 16:12	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 16:12	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 16:12	75-01-4	
Xylene (Total)	**1190**	ug/L	15.0	6.8	5		10/16/19 16:12	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 16:12	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 16:12	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: CO47-PZM046 **Lab ID: 30329644005** Collected: 10/14/19 12:39 Received: 10/14/19 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	1.4	5		10/16/19 16:12	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 16:12	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/16/19 16:12	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		5		10/16/19 16:12	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		5		10/16/19 16:12	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		10/16/19 16:12	2037-26-5	
Dibromofluoromethane (S)	89	%.	80-120		5		10/16/19 16:12	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: CO46-PZM047 **Lab ID: 30329644006** Collected: 10/14/19 13:05 Received: 10/14/19 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	2.7	5		10/16/19 18:41	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 18:41	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 18:41	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 18:41	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 18:41	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 18:41	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 18:41	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/16/19 18:41	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 18:41	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 18:41	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 18:41	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 18:41	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 18:41	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/16/19 18:41	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/16/19 18:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/16/19 18:41	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/16/19 18:41	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/16/19 18:41	107-13-1	
Benzene	**269000**	ug/L	1000	338	1000		10/16/19 19:30	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 18:41	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 18:41	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/16/19 18:41	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/16/19 18:41	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 18:41	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 18:41	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/16/19 18:41	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 18:41	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 18:41	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 18:41	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/16/19 18:41	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 18:41	74-95-3	
Ethylbenzene	**840**	ug/L	5.0	2.0	5		10/16/19 18:41	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/16/19 18:41	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 18:41	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 18:41	75-09-2	
Naphthalene	**12200**	ug/L	400	164	200		10/16/19 19:05	91-20-3	
Styrene	**189**	ug/L	5.0	1.6	5		10/16/19 18:41	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 18:41	127-18-4	
Toluene	**52600**	ug/L	200	63.4	200		10/16/19 19:05	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/16/19 18:41	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/16/19 18:41	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 18:41	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 18:41	75-01-4	
Xylene (Total)	**13100**	ug/L	600	270	200		10/16/19 19:05	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 18:41	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 18:41	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: CO46-PZM047 **Lab ID: 30329644006** Collected: 10/14/19 13:05 Received: 10/14/19 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	1.4	5		10/16/19 18:41	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 18:41	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/16/19 18:41	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		5		10/16/19 18:41	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		5		10/16/19 18:41	17060-07-0	
Toluene-d8 (S)	103	%.	80-120		5		10/16/19 18:41	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		5		10/16/19 18:41	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: CO45-PZM047 **Lab ID: 30329644007** Collected: 10/14/19 13:31 Received: 10/14/19 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	2.7	5		10/16/19 13:43	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 13:43	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 13:43	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 13:43	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 13:43	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 13:43	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 13:43	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/16/19 13:43	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 13:43	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 13:43	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 13:43	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 13:43	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 13:43	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/16/19 13:43	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/16/19 13:43	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/16/19 13:43	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/16/19 13:43	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/16/19 13:43	107-13-1	
Benzene	**1870**	ug/L	5.0	1.7	5		10/16/19 13:43	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 13:43	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 13:43	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/16/19 13:43	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/16/19 13:43	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 13:43	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 13:43	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/16/19 13:43	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 13:43	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 13:43	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 13:43	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/16/19 13:43	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 13:43	74-95-3	
Ethylbenzene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 13:43	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/16/19 13:43	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 13:43	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 13:43	75-09-2	
Naphthalene	**45.6**	ug/L	10.0	4.1	5		10/16/19 13:43	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 13:43	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 13:43	127-18-4	
Toluene	**3.1J**	ug/L	5.0	1.6	5		10/16/19 13:43	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/16/19 13:43	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/16/19 13:43	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 13:43	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 13:43	75-01-4	
Xylene (Total)	**8.6J**	ug/L	15.0	6.8	5		10/16/19 13:43	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 13:43	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 13:43	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: CO45-PZM047 **Lab ID: 30329644007** Collected: 10/14/19 13:31 Received: 10/14/19 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	1.4	5		10/16/19 13:43	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 13:43	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/16/19 13:43	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	78-122		5		10/16/19 13:43	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	80-120		5		10/16/19 13:43	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		10/16/19 13:43	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		5		10/16/19 13:43	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: CO44-PZM048 **Lab ID: 30329644008** Collected: 10/14/19 13:54 Received: 10/14/19 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	2.7	5		10/16/19 14:33	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 14:33	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 14:33	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 14:33	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 14:33	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 14:33	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 14:33	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/16/19 14:33	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 14:33	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 14:33	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 14:33	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 14:33	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 14:33	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/16/19 14:33	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/16/19 14:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/16/19 14:33	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/16/19 14:33	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/16/19 14:33	107-13-1	
Benzene	**10.8**	ug/L	5.0	1.7	5		10/16/19 14:33	71-43-2	B
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/16/19 14:33	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 14:33	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/16/19 14:33	75-25-2	
Bromomethane	**4.2J**	ug/L	5.0	3.6	5		10/16/19 14:33	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 14:33	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/16/19 14:33	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/16/19 14:33	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 14:33	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 14:33	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 14:33	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/16/19 14:33	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/16/19 14:33	74-95-3	
Ethylbenzene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 14:33	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/16/19 14:33	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/16/19 14:33	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/16/19 14:33	75-09-2	
Naphthalene	**10.0 U**	ug/L	10.0	4.1	5		10/16/19 14:33	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 14:33	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/16/19 14:33	127-18-4	
Toluene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 14:33	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/16/19 14:33	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/16/19 14:33	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/16/19 14:33	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 14:33	75-01-4	
Xylene (Total)	**15.0 U**	ug/L	15.0	6.8	5		10/16/19 14:33	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/16/19 14:33	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/16/19 14:33	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: CO44-PZM048 **Lab ID: 30329644008** Collected: 10/14/19 13:54 Received: 10/14/19 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	1.4	5		10/16/19 14:33	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/16/19 14:33	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/16/19 14:33	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%.	78-122		5		10/16/19 14:33	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	80-120		5		10/16/19 14:33	17060-07-0	
Toluene-d8 (S)	91	%.	80-120		5		10/16/19 14:33	2037-26-5	
Dibromofluoromethane (S)	106	%.	80-120		5		10/16/19 14:33	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: Trip blank **Lab ID: 30329644009** Collected: 10/14/19 00:01 Received: 10/14/19 22:30 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	0.55	1		10/16/19 12:53	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 12:53	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/16/19 12:53	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 12:53	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/16/19 12:53	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/16/19 12:53	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/16/19 12:53	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/16/19 12:53	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/16/19 12:53	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 12:53	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 12:53	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/16/19 12:53	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/16/19 12:53	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/16/19 12:53	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/16/19 12:53	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/16/19 12:53	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/16/19 12:53	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/16/19 12:53	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		10/16/19 12:53	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/16/19 12:53	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/16/19 12:53	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/16/19 12:53	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/16/19 12:53	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 12:53	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/16/19 12:53	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/16/19 12:53	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/16/19 12:53	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/16/19 12:53	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/16/19 12:53	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/16/19 12:53	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/16/19 12:53	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/16/19 12:53	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/16/19 12:53	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/16/19 12:53	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/16/19 12:53	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		10/16/19 12:53	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/16/19 12:53	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/16/19 12:53	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 12:53	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 12:53	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/16/19 12:53	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/16/19 12:53	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/16/19 12:53	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		10/16/19 12:53	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/16/19 12:53	156-59-2	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329644

Sample: Trip blank **Lab ID: 30329644009** Collected: 10/14/19 00:01 Received: 10/14/19 22:30 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	0.29	1		10/16/19 12:53	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		10/16/19 12:53	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/16/19 12:53	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/16/19 12:53	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		10/16/19 12:53	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	80-120		1		10/16/19 12:53	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		10/16/19 12:53	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		10/16/19 12:53	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30329644

QC Batch: 366415 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30329644001, 30329644002, 30329644003, 30329644004, 30329644005, 30329644006, 30329644007, 30329644008, 30329644009

METHOD BLANK: 1777366 Matrix: Water
Associated Lab Samples: 30329644001, 30329644002, 30329644003, 30329644004, 30329644005, 30329644006, 30329644007, 30329644008, 30329644009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/16/19 12:29	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/16/19 12:29	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/16/19 12:29	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/16/19 12:29	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/16/19 12:29	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/16/19 12:29	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/16/19 12:29	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/16/19 12:29	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/16/19 12:29	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/16/19 12:29	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/16/19 12:29	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/16/19 12:29	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/16/19 12:29	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/16/19 12:29	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/16/19 12:29	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/16/19 12:29	
Acetone	ug/L	10.0 U	10.0	5.6	10/16/19 12:29	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/16/19 12:29	
Benzene	ug/L	0.51J	1.0	0.34	10/16/19 12:29	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/16/19 12:29	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/16/19 12:29	
Bromoform	ug/L	1.0 U	1.0	0.56	10/16/19 12:29	
Bromomethane	ug/L	1.0 U	1.0	0.73	10/16/19 12:29	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/16/19 12:29	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/16/19 12:29	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/16/19 12:29	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/16/19 12:29	
Chloroform	ug/L	1.0 U	1.0	0.39	10/16/19 12:29	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/16/19 12:29	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/16/19 12:29	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/16/19 12:29	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/16/19 12:29	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/16/19 12:29	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/16/19 12:29	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/16/19 12:29	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/16/19 12:29	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/16/19 12:29	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/16/19 12:29	
Styrene	ug/L	1.0 U	1.0	0.33	10/16/19 12:29	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/16/19 12:29	

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.: 30329644

METHOD BLANK: 1777366 Matrix: Water

Associated Lab Samples: 30329644001, 30329644002, 30329644003, 30329644004, 30329644005, 30329644006, 30329644007, 30329644008, 30329644009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.32	10/16/19 12:29	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/16/19 12:29	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/16/19 12:29	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/16/19 12:29	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/16/19 12:29	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/16/19 12:29	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/16/19 12:29	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/16/19 12:29	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/16/19 12:29	
1,2-Dichloroethane-d4 (S)	%.	103	80-120		10/16/19 12:29	
4-Bromofluorobenzene (S)	%.	102	78-122		10/16/19 12:29	
Dibromofluoromethane (S)	%.	102	80-120		10/16/19 12:29	
Toluene-d8 (S)	%.	94	80-120		10/16/19 12:29	

LABORATORY CONTROL SAMPLE: 1777367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.1	101	70-130	
1,1,1-Trichloroethane	ug/L	20	18.2	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	70-130	
1,1,2-Trichloroethane	ug/L	20	19.5	98	70-130	
1,1-Dichloroethane	ug/L	20	17.2	86	68-121	
1,1-Dichloroethene	ug/L	20	16.6	83	63-129	
1,2,3-Trichloropropane	ug/L	20	19.0	95	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	14.5	73	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.1	100	70-130	
1,2-Dichlorobenzene	ug/L	20	17.3	86	70-130	
1,2-Dichloroethane	ug/L	20	20.1	100	67-117	
1,2-Dichloropropane	ug/L	20	19.2	96	69-121	
1,4-Dichlorobenzene	ug/L	20	19.0	95	70-130	
2-Butanone (MEK)	ug/L	20	17.2	86	59-128	
2-Hexanone	ug/L	20	14.8	74	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.4	97	63-126	
Acetone	ug/L	20	16.6	83	37-150	
Acrylonitrile	ug/L	20	16.2	81	62-128	
Benzene	ug/L	20	18.8	94	70-130	
Bromochloromethane	ug/L	20	22.5	113	59-137	
Bromodichloromethane	ug/L	20	20.6	103	70-130	
Bromoform	ug/L	20	17.3	86	65-130	
Bromomethane	ug/L	20	17.4	87	45-148	
Carbon disulfide	ug/L	20	16.3	81	55-123	
Carbon tetrachloride	ug/L	20	18.8	94	69-126	
Chlorobenzene	ug/L	20	20.1	100	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.: 30329644

LABORATORY CONTROL SAMPLE: 1777367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	24.7	124	68-146	
Chloroform	ug/L	20	19.1	95	69-116	
Chloromethane	ug/L	20	18.7	93	56-129	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	66-118	
cis-1,3-Dichloropropene	ug/L	20	18.7	93	70-130	
Dibromochloromethane	ug/L	20	17.0	85	70-130	
Dibromomethane	ug/L	20	20.2	101	70-130	
Ethylbenzene	ug/L	20	19.0	95	70-130	
Iodomethane	ug/L	20	11.0J	55	10-175	
Methyl-tert-butyl ether	ug/L	20	19.9	99	70-130	
Methylene Chloride	ug/L	20	19.3	97	65-124	
Naphthalene	ug/L	20	18.1	90	69-135	
Styrene	ug/L	20	20.5	102	70-130	
Tetrachloroethene	ug/L	20	16.9	85	70-130	
Toluene	ug/L	20	19.2	96	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.0	85	64-123	
trans-1,3-Dichloropropene	ug/L	20	17.5	88	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	12.2	61	37-119	
Trichloroethene	ug/L	20	18.3	91	70-130	
Trichlorofluoromethane	ug/L	20	24.9	124	64-163	
Vinyl acetate	ug/L	20	13.4	67	45-129	
Vinyl chloride	ug/L	20	23.2	116	70-130	
Xylene (Total)	ug/L	60	56.4	94	70-130	
1,2-Dichloroethane-d4 (S)	%.			107	80-120	
4-Bromofluorobenzene (S)	%.			98	78-122	
Dibromofluoromethane (S)	%.			103	80-120	
Toluene-d8 (S)	%.			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777368 1777369

Parameter	Units	30329644001 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	5.0 U	100	100	91.2	78.1	91	78	52-123	16	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	84.7	76.5	85	76	67-127	10	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	81.7	80.4	82	80	55-118	2	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	94.2	86.6	94	87	60-117	8	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	83.2	72.0	83	72	68-118	14	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	79.0	65.0	79	65	62-126	19	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	81.8	79.8	82	80	56-129	3	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	66.2	63.3	66	63	46-130	5	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	96.5	90.3	96	90	69-124	7	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	88.3	84.3	88	84	66-116	5	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	90.7	85.0	91	85	67-117	7	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	89.7	86.5	90	87	61-128	4	30	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30329644

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777368 1777369

Parameter	Units	30329644001 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	5.0 U	100	100	89.5	86.4	89	86	68-116	3	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	85.9	69.9	86	70	63-175	21	30	
2-Hexanone	ug/L	50.0 U	100	100	67.7	58.2	68	58	65-151	15	30	ML
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	77.2	70.7	77	71	66-149	9	30	
Acetone	ug/L	50.0 U	100	100	96.3	64.3	75	43	10-175	40	30	R1
Acrylonitrile	ug/L	20.0 U	100	100	75.0	63.0	75	63	42-165	17	30	
Benzene	ug/L	40800	10000	10000	47500	46300	67	55	67-119	3	30	ML
Bromochloromethane	ug/L	5.0 U	100	100	104	93.5	104	93	64-124	11	30	
Bromodichloromethane	ug/L	5.0 U	100	100	87.3	82.0	87	82	67-126	6	30	
Bromoform	ug/L	5.0 U	100	100	72.6	73.0	73	73	43-114	1	30	
Bromomethane	ug/L	5.0 U	100	100	28.0	27.9	28	28	10-164	1	30	
Carbon disulfide	ug/L	5.0 U	100	100	74.8	60.1	75	60	37-135	22	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	83.2	74.8	83	75	60-137	11	30	
Chlorobenzene	ug/L	5.0 U	100	100	93.3	87.2	93	87	68-119	7	30	
Chloroethane	ug/L	5.0 U	100	100	90.5	82.5	90	82	54-169	9	30	
Chloroform	ug/L	5.0 U	100	100	90.2	79.0	90	79	69-113	13	30	
Chloromethane	ug/L	5.0 U	100	100	71.6	69.8	72	70	43-159	3	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	82.6	75.2	83	75	65-121	9	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	85.5	78.7	86	79	61-120	8	30	
Dibromochloromethane	ug/L	5.0 U	100	100	78.1	72.3	78	72	56-121	8	30	
Dibromomethane	ug/L	5.0 U	100	100	84.7	81.0	85	81	56-133	5	30	
Ethylbenzene	ug/L	268	100	100	376	346	108	78	69-127	8	30	
Iodomethane	ug/L	250 U	100	100	86.3J	107J	86	107	10-152		30	
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	87.0	69.4	87	69	70-130	22	30	ML
Methylene Chloride	ug/L	5.0 U	100	100	91.8	75.9	92	76	49-144	19	30	
Naphthalene	ug/L	1270	100	100	1350	1260	84	-12	60-136	7	30	ML
Styrene	ug/L	276	100	100	395	360	120	84	65-120	9	30	
Tetrachloroethene	ug/L	5.0 U	100	100	79.8	71.0	80	71	64-123	12	30	
Toluene	ug/L	5820	10000	10000	15500	14900	97	91	70-130	4	30	
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	77.1	64.5	77	65	66-119	18	30	ML
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	81.6	76.8	82	77	52-117	6	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	49.8	48.4	50	48	13-100	3	30	
Trichloroethene	ug/L	5.0 U	100	100	86.8	81.0	87	81	63-125	7	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	120	110	120	110	43-186	9	30	
Vinyl acetate	ug/L	5.0 U	100	100	72.9	66.4	73	66	35-150	9	30	
Vinyl chloride	ug/L	5.0 U	100	100	103	97.2	103	97	60-133	6	30	
Xylene (Total)	ug/L	1870	300	300	2200	1950	110	28	69-128	12	30	
1,2-Dichloroethane-d4 (S)	%.						101	97	80-120			
4-Bromofluorobenzene (S)	%.						96	96	78-122			
Dibromofluoromethane (S)	%.						100	94	80-120			
Toluene-d8 (S)	%.						98	98	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.: 30329644

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

SAMPLE QUALIFIERS

Sample: 30329644008

[1]	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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.

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30329644

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30329644001	**COL-MWI**	EPA 8260B	366415		
30329644002	**CO27-PZM046**	EPA 8260B	366415		
30329644003	**CO27-PZM012**	EPA 8260B	366415		
30329644004	**CO48-PZM044**	EPA 8260B	366415		
30329644005	**CO47-PZM046**	EPA 8260B	366415		
30329644006	**CO46-PZM047**	EPA 8260B	366415		
30329644007	**CO45-PZM047**	EPA 8260B	366415		
30329644008	**CO44-PZM048**	EPA 8260B	366415		
30329644009	**Trip blank**	EPA 8260B	366415		

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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: 190275M-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#: 30329644

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	Pace Project No./ Lab I.D.
COL-MW1	WT	G			10/14	0859		3				X					X		001
C027-PZM046	WT	G			10/14	0941		3				X					X		002
C027-PZM012	WT	G			10/14	1037		3				X					X		003
C048-PZM044	WT	G			10/14	1216		3				X					X		004
C047-PZM046	WT	G			10/14	1239		3				X					X		005
C046-PZM047	WT	G			10/14	1305		3				X					X		006
C045-PZM047	WT	G			10/14	1331		3				X					X		007
C044-PZM048	WT	G			10/14	1354		3				X					X		008
Trip blank	WT				10/14			2				X					X		009

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 package	Joshua Barna ARW	10/14/19	1430	David E Hellegers	10/14/19	1541				
no validation	David E Hellegers	10/14/19	1925	RDS FACE	10-14-19	1930		Y		
	RDS FACE	10-14-19	2230	Marion J Clary	10-14-19	2230	1.5	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joshua Barna
SIGNATURE of SAMPLER: Joshua Barna
DATE Signed (MM/DD/YY): 10/14/19

*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 Group Project # #_30329644

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Label# MLC

LIMS Login MLC

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 1.5 °C Correction Factor: 0 °C Final Temp: 1.5 °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 MLC 10/14/19
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 sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16.	
All containers meet method preservation requirements.	✓			Initial when completed MLC	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):		✓		17. Both Trip Blanks have Headspace > 6mm	
Trip Blank Present:	✓			18.	
Trip Blank Custody Seals Present	✓				
Rad 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 23, 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.: 30329918

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on October 15, 2019. 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.: 30329918

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
Florida: Cert E871149 SEKS WET
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.: 30329918

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30329918001	**CO43-PZM048**	Water	10/15/19 08:03	10/15/19 22:30
30329918002	**CO61-PZM007**	Water	10/15/19 08:48	10/15/19 22:30
30329918003	**CO63-PZM007**	Water	10/15/19 09:33	10/15/19 22:30
30329918004	**CO64-PZM006**	Water	10/15/19 13:02	10/15/19 22:30
30329918005	**CO65-PZM005**	Water	10/15/19 10:01	10/15/19 22:30
30329918006	**CO66-PZM005**	Water	10/15/19 10:19	10/15/19 22:30
30329918007	**CO67-PZM006**	Water	10/15/19 10:48	10/15/19 22:30
30329918008	**CO68-PZM005**	Water	10/15/19 11:06	10/15/19 22:30
30329918009	**CO69-PZM005**	Water	10/15/19 11:29	10/15/19 22:30
30329918010	**CO70-PZM005**	Water	10/15/19 11:47	10/15/19 22:30
30329918011	**CO71-PZM006**	Water	10/15/19 12:11	10/15/19 22:30
30329918012	**CO72-PZM005**	Water	10/15/19 12:29	10/15/19 22:30
30329918013	**Trip blank**	Water	10/15/19 00:01	10/15/19 22:30

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30329918

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30329918001	**CO43-PZM048**	EPA 8260B	LEL	53	PASI-PA
30329918002	**CO61-PZM007**	EPA 8260B	LEL	53	PASI-PA
30329918003	**CO63-PZM007**	EPA 8260B	LEL	53	PASI-PA
30329918004	**CO64-PZM006**	EPA 8260B	LEL	53	PASI-PA
30329918005	**CO65-PZM005**	EPA 8260B	LEL	53	PASI-PA
30329918006	**CO66-PZM005**	EPA 8260B	LEL	53	PASI-PA
30329918007	**CO67-PZM006**	EPA 8260B	LEL	53	PASI-PA
30329918008	**CO68-PZM005**	EPA 8260B	LEL	53	PASI-PA
30329918009	**CO69-PZM005**	EPA 8260B	LEL	53	PASI-PA
30329918010	**CO70-PZM005**	EPA 8260B	LEL	53	PASI-PA
30329918011	**CO71-PZM006**	EPA 8260B	LEL	53	PASI-PA
30329918012	**CO72-PZM005**	EPA 8260B	LEL	53	PASI-PA
30329918013	**Trip blank**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO43-PZM048 **Lab ID: 30329918001** Collected: 10/15/19 08:03 Received: 10/15/19 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	**100 U**	ug/L	100	54.6	100		10/21/19 21:49	630-20-6	
1,1,1-Trichloroethane	**100 U**	ug/L	100	37.5	100		10/21/19 21:49	71-55-6	
1,1,2,2-Tetrachloroethane	**100 U**	ug/L	100	47.1	100		10/21/19 21:49	79-34-5	
1,1,2-Trichloroethane	**100 U**	ug/L	100	33.2	100		10/21/19 21:49	79-00-5	
1,1-Dichloroethane	**100 U**	ug/L	100	23.9	100		10/21/19 21:49	75-34-3	
1,1-Dichloroethene	**100 U**	ug/L	100	23.9	100		10/21/19 21:49	75-35-4	
1,2,3-Trichloropropane	**100 U**	ug/L	100	58.5	100		10/21/19 21:49	96-18-4	
1,2-Dibromo-3-chloropropane	**500 U**	ug/L	500	54.7	100		10/21/19 21:49	96-12-8	
1,2-Dibromoethane (EDB)	**100 U**	ug/L	100	43.8	100		10/21/19 21:49	106-93-4	
1,2-Dichlorobenzene	**100 U**	ug/L	100	38.3	100		10/21/19 21:49	95-50-1	
1,2-Dichloroethane	**100 U**	ug/L	100	32.8	100		10/21/19 21:49	107-06-2	
1,2-Dichloropropane	**100 U**	ug/L	100	28.1	100		10/21/19 21:49	78-87-5	
1,4-Dichlorobenzene	**100 U**	ug/L	100	47.8	100		10/21/19 21:49	106-46-7	
2-Butanone (MEK)	**1000 U**	ug/L	1000	152	100		10/21/19 21:49	78-93-3	
2-Hexanone	**1000 U**	ug/L	1000	58.1	100		10/21/19 21:49	591-78-6	
4-Methyl-2-pentanone (MIBK)	**1000 U**	ug/L	1000	42.1	100		10/21/19 21:49	108-10-1	
Acetone	**1000 U**	ug/L	1000	561	100		10/21/19 21:49	67-64-1	
Acrylonitrile	**400 U**	ug/L	400	55.2	100		10/21/19 21:49	107-13-1	
Benzene	**5260**	ug/L	100	33.8	100		10/21/19 21:49	71-43-2	
Bromochloromethane	**100 U**	ug/L	100	47.9	100		10/21/19 21:49	74-97-5	
Bromodichloromethane	**100 U**	ug/L	100	34.7	100		10/21/19 21:49	75-27-4	
Bromoform	**100 U**	ug/L	100	56.3	100		10/21/19 21:49	75-25-2	
Bromomethane	**100 U**	ug/L	100	72.7	100		10/21/19 21:49	74-83-9	
Carbon disulfide	**100 U**	ug/L	100	32.5	100		10/21/19 21:49	75-15-0	
Carbon tetrachloride	**100 U**	ug/L	100	43.6	100		10/21/19 21:49	56-23-5	
Chlorobenzene	**100 U**	ug/L	100	26.2	100		10/21/19 21:49	108-90-7	
Chloroethane	**100 U**	ug/L	100	64.2	100		10/21/19 21:49	75-00-3	L1
Chloroform	**100 U**	ug/L	100	39.2	100		10/21/19 21:49	67-66-3	
Chloromethane	**100 U**	ug/L	100	40.5	100		10/21/19 21:49	74-87-3	
Dibromochloromethane	**100 U**	ug/L	100	42.6	100		10/21/19 21:49	124-48-1	
Dibromomethane	**100 U**	ug/L	100	34.5	100		10/21/19 21:49	74-95-3	
Ethylbenzene	**100 U**	ug/L	100	39.8	100		10/21/19 21:49	100-41-4	
Iodomethane	**5000 U**	ug/L	5000	52.1	100		10/21/19 21:49	74-88-4	
Methyl-tert-butyl ether	**100 U**	ug/L	100	24.8	100		10/21/19 21:49	1634-04-4	
Methylene Chloride	**100 U**	ug/L	100	63.8	100		10/21/19 21:49	75-09-2	
Naphthalene	**345**	ug/L	200	81.9	100		10/21/19 21:49	91-20-3	
Styrene	**100 U**	ug/L	100	33.0	100		10/21/19 21:49	100-42-5	
Tetrachloroethene	**100 U**	ug/L	100	39.2	100		10/21/19 21:49	127-18-4	
Toluene	**484**	ug/L	100	31.7	100		10/21/19 21:49	108-88-3	
Trichloroethene	**100 U**	ug/L	100	29.1	100		10/21/19 21:49	79-01-6	
Trichlorofluoromethane	**100 U**	ug/L	100	50.6	100		10/21/19 21:49	75-69-4	
Vinyl acetate	**100 U**	ug/L	100	57.3	100		10/21/19 21:49	108-05-4	
Vinyl chloride	**100 U**	ug/L	100	28.8	100		10/21/19 21:49	75-01-4	
Xylene (Total)	**300 U**	ug/L	300	135	100		10/21/19 21:49	1330-20-7	
cis-1,2-Dichloroethene	**100 U**	ug/L	100	38.1	100		10/21/19 21:49	156-59-2	
cis-1,3-Dichloropropene	**100 U**	ug/L	100	28.9	100		10/21/19 21:49	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO43-PZM048 **Lab ID: 30329918001** Collected: 10/15/19 08:03 Received: 10/15/19 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	**100 U**	ug/L	100	28.2	100		10/21/19 21:49	156-60-5	
trans-1,3-Dichloropropene	**100 U**	ug/L	100	32.2	100		10/21/19 21:49	10061-02-6	
trans-1,4-Dichloro-2-butene	**500 U**	ug/L	500	58.4	100		10/21/19 21:49	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		100		10/21/19 21:49	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		100		10/21/19 21:49	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		100		10/21/19 21:49	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		100		10/21/19 21:49	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO61-PZM007 **Lab ID: 30329918002** Collected: 10/15/19 08:48 Received: 10/15/19 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	0.55	1		10/21/19 17:13	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 17:13	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/21/19 17:13	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/21/19 17:13	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/21/19 17:13	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/21/19 17:13	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/21/19 17:13	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/21/19 17:13	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/21/19 17:13	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 17:13	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/21/19 17:13	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/21/19 17:13	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/21/19 17:13	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/21/19 17:13	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/21/19 17:13	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/21/19 17:13	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/21/19 17:13	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/21/19 17:13	107-13-1	
Benzene	**460**	ug/L	10.0	3.4	10		10/21/19 17:39	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/21/19 17:13	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/21/19 17:13	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/21/19 17:13	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/21/19 17:13	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/21/19 17:13	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/21/19 17:13	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/21/19 17:13	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/21/19 17:13	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/21/19 17:13	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/21/19 17:13	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/21/19 17:13	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/21/19 17:13	74-95-3	
Ethylbenzene	**23.8**	ug/L	1.0	0.40	1		10/21/19 17:13	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/21/19 17:13	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/21/19 17:13	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/21/19 17:13	75-09-2	
Naphthalene	**2700**	ug/L	20.0	8.2	10		10/21/19 17:39	91-20-3	
Styrene	**26.2**	ug/L	1.0	0.33	1		10/21/19 17:13	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/21/19 17:13	127-18-4	
Toluene	**225**	ug/L	1.0	0.32	1		10/21/19 17:13	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 17:13	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/21/19 17:13	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/21/19 17:13	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 17:13	75-01-4	
Xylene (Total)	**356**	ug/L	3.0	1.4	1		10/21/19 17:13	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 17:13	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 17:13	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO61-PZM007 **Lab ID: 30329918002** Collected: 10/15/19 08:48 Received: 10/15/19 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	0.28	1		10/21/19 17:13	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/21/19 17:13	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/21/19 17:13	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		10/21/19 17:13	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		1		10/21/19 17:13	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		1		10/21/19 17:13	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		1		10/21/19 17:13	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO63-PZM007 **Lab ID: 30329918003** Collected: 10/15/19 09:33 Received: 10/15/19 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	2.7	5		10/21/19 18:54	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 18:54	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 18:54	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 18:54	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 18:54	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 18:54	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/21/19 18:54	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/21/19 18:54	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/21/19 18:54	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 18:54	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 18:54	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 18:54	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 18:54	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/21/19 18:54	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/21/19 18:54	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/21/19 18:54	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/21/19 18:54	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/21/19 18:54	107-13-1	
Benzene	**321**	ug/L	5.0	1.7	5		10/21/19 18:54	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 18:54	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 18:54	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/21/19 18:54	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/21/19 18:54	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 18:54	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/21/19 18:54	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/21/19 18:54	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/21/19 18:54	75-00-3	L1
Chloroform	**2.0J**	ug/L	5.0	2.0	5		10/21/19 18:54	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 18:54	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/21/19 18:54	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 18:54	74-95-3	
Ethylbenzene	**14.7**	ug/L	5.0	2.0	5		10/21/19 18:54	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/21/19 18:54	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 18:54	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/21/19 18:54	75-09-2	
Naphthalene	**2360**	ug/L	100	41.0	50		10/21/19 19:19	91-20-3	
Styrene	**54.7**	ug/L	5.0	1.6	5		10/21/19 18:54	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 18:54	127-18-4	
Toluene	**170**	ug/L	5.0	1.6	5		10/21/19 18:54	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/21/19 18:54	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/21/19 18:54	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/21/19 18:54	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 18:54	75-01-4	
Xylene (Total)	**284**	ug/L	15.0	6.8	5		10/21/19 18:54	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 18:54	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 18:54	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO63-PZM007 **Lab ID: 30329918003** Collected: 10/15/19 09:33 Received: 10/15/19 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	1.4	5		10/21/19 18:54	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 18:54	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/21/19 18:54	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		10/21/19 18:54	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		5		10/21/19 18:54	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		10/21/19 18:54	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		5		10/21/19 18:54	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO64-PZM006 **Lab ID: 30329918004** Collected: 10/15/19 13:02 Received: 10/15/19 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	2.7	5		10/21/19 19:43	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 19:43	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 19:43	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 19:43	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 19:43	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 19:43	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/21/19 19:43	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/21/19 19:43	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/21/19 19:43	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 19:43	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 19:43	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 19:43	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 19:43	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/21/19 19:43	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/21/19 19:43	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/21/19 19:43	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/21/19 19:43	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/21/19 19:43	107-13-1	
Benzene	**339**	ug/L	5.0	1.7	5		10/21/19 19:43	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 19:43	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 19:43	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/21/19 19:43	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/21/19 19:43	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 19:43	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/21/19 19:43	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/21/19 19:43	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/21/19 19:43	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 19:43	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 19:43	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/21/19 19:43	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 19:43	74-95-3	
Ethylbenzene	**16.0**	ug/L	5.0	2.0	5		10/21/19 19:43	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/21/19 19:43	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 19:43	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/21/19 19:43	75-09-2	
Naphthalene	**3080**	ug/L	100	41.0	50		10/21/19 20:09	91-20-3	
Styrene	**50.1**	ug/L	5.0	1.6	5		10/21/19 19:43	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 19:43	127-18-4	
Toluene	**179**	ug/L	5.0	1.6	5		10/21/19 19:43	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/21/19 19:43	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/21/19 19:43	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/21/19 19:43	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 19:43	75-01-4	
Xylene (Total)	**297**	ug/L	15.0	6.8	5		10/21/19 19:43	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 19:43	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 19:43	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO64-PZM006 **Lab ID: 30329918004** Collected: 10/15/19 13:02 Received: 10/15/19 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	1.4	5		10/21/19 19:43	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 19:43	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/21/19 19:43	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		5		10/21/19 19:43	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	80-120		5		10/21/19 19:43	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		10/21/19 19:43	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		5		10/21/19 19:43	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO65-PZM005 **Lab ID: 30329918005** Collected: 10/15/19 10:01 Received: 10/15/19 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	2.7	5		10/21/19 20:34	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 20:34	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 20:34	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 20:34	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 20:34	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 20:34	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/21/19 20:34	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/21/19 20:34	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/21/19 20:34	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 20:34	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 20:34	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 20:34	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 20:34	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/21/19 20:34	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/21/19 20:34	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/21/19 20:34	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/21/19 20:34	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/21/19 20:34	107-13-1	
Benzene	**308**	ug/L	5.0	1.7	5		10/21/19 20:34	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 20:34	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 20:34	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/21/19 20:34	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/21/19 20:34	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 20:34	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/21/19 20:34	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/21/19 20:34	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/21/19 20:34	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 20:34	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 20:34	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/21/19 20:34	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 20:34	74-95-3	
Ethylbenzene	**13.5**	ug/L	5.0	2.0	5		10/21/19 20:34	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/21/19 20:34	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 20:34	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/21/19 20:34	75-09-2	
Naphthalene	**3310**	ug/L	100	41.0	50		10/21/19 20:59	91-20-3	
Styrene	**57.0**	ug/L	5.0	1.6	5		10/21/19 20:34	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 20:34	127-18-4	
Toluene	**166**	ug/L	5.0	1.6	5		10/21/19 20:34	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/21/19 20:34	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/21/19 20:34	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/21/19 20:34	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 20:34	75-01-4	
Xylene (Total)	**296**	ug/L	15.0	6.8	5		10/21/19 20:34	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 20:34	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 20:34	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO65-PZM005 **Lab ID: 30329918005** Collected: 10/15/19 10:01 Received: 10/15/19 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	1.4	5		10/21/19 20:34	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 20:34	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/21/19 20:34	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		5		10/21/19 20:34	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		5		10/21/19 20:34	17060-07-0	
Toluene-d8 (S)	101	%.	80-120		5		10/21/19 20:34	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		5		10/21/19 20:34	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO66-PZM005 **Lab ID: 30329918006** Collected: 10/15/19 10:19 Received: 10/15/19 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	2.7	5		10/21/19 14:44	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 14:44	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 14:44	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 14:44	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 14:44	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 14:44	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/21/19 14:44	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/21/19 14:44	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/21/19 14:44	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 14:44	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 14:44	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 14:44	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 14:44	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/21/19 14:44	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/21/19 14:44	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/21/19 14:44	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/21/19 14:44	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/21/19 14:44	107-13-1	
Benzene	**315**	ug/L	5.0	1.7	5		10/21/19 14:44	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 14:44	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 14:44	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/21/19 14:44	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/21/19 14:44	74-83-9	R1
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 14:44	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/21/19 14:44	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/21/19 14:44	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/21/19 14:44	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 14:44	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 14:44	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/21/19 14:44	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 14:44	74-95-3	
Ethylbenzene	**14.3**	ug/L	5.0	2.0	5		10/21/19 14:44	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/21/19 14:44	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 14:44	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/21/19 14:44	75-09-2	
Naphthalene	**3380**	ug/L	20.0	8.2	10		10/21/19 19:06	91-20-3	CL
Styrene	**66.4**	ug/L	5.0	1.6	5		10/21/19 14:44	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 14:44	127-18-4	
Toluene	**168**	ug/L	5.0	1.6	5		10/21/19 14:44	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/21/19 14:44	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/21/19 14:44	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/21/19 14:44	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 14:44	75-01-4	
Xylene (Total)	**293**	ug/L	15.0	6.8	5		10/21/19 14:44	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 14:44	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 14:44	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO66-PZM005 **Lab ID: 30329918006** Collected: 10/15/19 10:19 Received: 10/15/19 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	1.4	5		10/21/19 14:44	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 14:44	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/21/19 14:44	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		5		10/21/19 14:44	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		5		10/21/19 14:44	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		10/21/19 14:44	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		5		10/21/19 14:44	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO67-PZM006 **Lab ID: 30329918007** Collected: 10/15/19 10:48 Received: 10/15/19 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	0.55	1		10/21/19 15:58	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 15:58	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/21/19 15:58	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/21/19 15:58	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/21/19 15:58	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/21/19 15:58	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/21/19 15:58	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/21/19 15:58	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/21/19 15:58	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 15:58	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/21/19 15:58	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/21/19 15:58	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/21/19 15:58	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/21/19 15:58	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/21/19 15:58	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/21/19 15:58	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/21/19 15:58	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/21/19 15:58	107-13-1	
Benzene	**283**	ug/L	1.0	0.34	1		10/21/19 15:58	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/21/19 15:58	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/21/19 15:58	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/21/19 15:58	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/21/19 15:58	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/21/19 15:58	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/21/19 15:58	56-23-5	
Chlorobenzene	**0.69J**	ug/L	1.0	0.26	1		10/21/19 15:58	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/21/19 15:58	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/21/19 15:58	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/21/19 15:58	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/21/19 15:58	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/21/19 15:58	74-95-3	
Ethylbenzene	**12.1**	ug/L	1.0	0.40	1		10/21/19 15:58	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/21/19 15:58	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/21/19 15:58	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/21/19 15:58	75-09-2	
Naphthalene	**1950**	ug/L	10.0	4.1	5		10/21/19 14:31	91-20-3	
Styrene	**63.8**	ug/L	1.0	0.33	1		10/21/19 15:58	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/21/19 15:58	127-18-4	
Toluene	**152**	ug/L	1.0	0.32	1		10/21/19 15:58	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 15:58	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/21/19 15:58	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/21/19 15:58	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 15:58	75-01-4	
Xylene (Total)	**259**	ug/L	3.0	1.4	1		10/21/19 15:58	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 15:58	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 15:58	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO67-PZM006 **Lab ID: 30329918007** Collected: 10/15/19 10:48 Received: 10/15/19 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	0.28	1		10/21/19 15:58	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/21/19 15:58	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/21/19 15:58	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		10/21/19 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		1		10/21/19 15:58	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		1		10/21/19 15:58	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		1		10/21/19 15:58	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO68-PZM005 **Lab ID: 30329918008** Collected: 10/15/19 11:06 Received: 10/15/19 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	0.55	1		10/21/19 18:04	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 18:04	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/21/19 18:04	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/21/19 18:04	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/21/19 18:04	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/21/19 18:04	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/21/19 18:04	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/21/19 18:04	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/21/19 18:04	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 18:04	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/21/19 18:04	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/21/19 18:04	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/21/19 18:04	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/21/19 18:04	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/21/19 18:04	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/21/19 18:04	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/21/19 18:04	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/21/19 18:04	107-13-1	
Benzene	**319**	ug/L	1.0	0.34	1		10/21/19 18:04	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/21/19 18:04	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/21/19 18:04	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/21/19 18:04	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/21/19 18:04	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/21/19 18:04	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/21/19 18:04	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/21/19 18:04	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/21/19 18:04	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/21/19 18:04	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/21/19 18:04	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/21/19 18:04	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/21/19 18:04	74-95-3	
Ethylbenzene	**13.0**	ug/L	1.0	0.40	1		10/21/19 18:04	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/21/19 18:04	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/21/19 18:04	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/21/19 18:04	75-09-2	
Naphthalene	**3730**	ug/L	40.0	16.4	20		10/21/19 18:29	91-20-3	
Styrene	**85.4**	ug/L	1.0	0.33	1		10/21/19 18:04	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/21/19 18:04	127-18-4	
Toluene	**174**	ug/L	1.0	0.32	1		10/21/19 18:04	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 18:04	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/21/19 18:04	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/21/19 18:04	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 18:04	75-01-4	
Xylene (Total)	**292**	ug/L	3.0	1.4	1		10/21/19 18:04	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 18:04	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 18:04	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO68-PZM005 **Lab ID: 30329918008** Collected: 10/15/19 11:06 Received: 10/15/19 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	0.28	1		10/21/19 18:04	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/21/19 18:04	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/21/19 18:04	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%.	78-122		1		10/21/19 18:04	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		1		10/21/19 18:04	17060-07-0	
Toluene-d8 (S)	106	%.	80-120		1		10/21/19 18:04	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		1		10/21/19 18:04	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO69-PZM005 **Lab ID: 30329918009** Collected: 10/15/19 11:29 Received: 10/15/19 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	0.55	1		10/21/19 14:19	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 14:19	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/21/19 14:19	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/21/19 14:19	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/21/19 14:19	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/21/19 14:19	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/21/19 14:19	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/21/19 14:19	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/21/19 14:19	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 14:19	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/21/19 14:19	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/21/19 14:19	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/21/19 14:19	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/21/19 14:19	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/21/19 14:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/21/19 14:19	108-10-1	
Acetone	**6.8J**	ug/L	10.0	5.6	1		10/21/19 14:19	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/21/19 14:19	107-13-1	
Benzene	**244**	ug/L	1.0	0.34	1		10/21/19 14:19	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/21/19 14:19	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/21/19 14:19	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/21/19 14:19	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/21/19 14:19	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/21/19 14:19	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/21/19 14:19	56-23-5	
Chlorobenzene	**0.29J**	ug/L	1.0	0.26	1		10/21/19 14:19	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/21/19 14:19	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/21/19 14:19	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/21/19 14:19	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/21/19 14:19	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/21/19 14:19	74-95-3	
Ethylbenzene	**10.1**	ug/L	1.0	0.40	1		10/21/19 14:19	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/21/19 14:19	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/21/19 14:19	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/21/19 14:19	75-09-2	
Naphthalene	**808**	ug/L	20.0	8.2	10		10/21/19 18:16	91-20-3	
Styrene	**54.3**	ug/L	1.0	0.33	1		10/21/19 14:19	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/21/19 14:19	127-18-4	
Toluene	**125**	ug/L	1.0	0.32	1		10/21/19 14:19	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 14:19	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/21/19 14:19	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/21/19 14:19	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 14:19	75-01-4	
Xylene (Total)	**223**	ug/L	3.0	1.4	1		10/21/19 14:19	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 14:19	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 14:19	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO69-PZM005 **Lab ID: 30329918009** Collected: 10/15/19 11:29 Received: 10/15/19 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	0.28	1		10/21/19 14:19	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/21/19 14:19	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/21/19 14:19	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		10/21/19 14:19	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		1		10/21/19 14:19	17060-07-0	
Toluene-d8 (S)	105	%.	80-120		1		10/21/19 14:19	2037-26-5	
Dibromofluoromethane (S)	94	%.	80-120		1		10/21/19 14:19	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO70-PZM005 **Lab ID: 30329918010** Collected: 10/15/19 11:47 Received: 10/15/19 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	0.55	1		10/21/19 16:24	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 16:24	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/21/19 16:24	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/21/19 16:24	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/21/19 16:24	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/21/19 16:24	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/21/19 16:24	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/21/19 16:24	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/21/19 16:24	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 16:24	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/21/19 16:24	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/21/19 16:24	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/21/19 16:24	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/21/19 16:24	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/21/19 16:24	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/21/19 16:24	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/21/19 16:24	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/21/19 16:24	107-13-1	
Benzene	**74.4**	ug/L	1.0	0.34	1		10/21/19 16:24	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/21/19 16:24	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/21/19 16:24	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/21/19 16:24	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/21/19 16:24	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/21/19 16:24	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/21/19 16:24	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/21/19 16:24	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/21/19 16:24	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/21/19 16:24	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/21/19 16:24	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/21/19 16:24	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/21/19 16:24	74-95-3	
Ethylbenzene	**3.1**	ug/L	1.0	0.40	1		10/21/19 16:24	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/21/19 16:24	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/21/19 16:24	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/21/19 16:24	75-09-2	
Naphthalene	**275**	ug/L	2.0	0.82	1		10/21/19 16:24	91-20-3	
Styrene	**10.3**	ug/L	1.0	0.33	1		10/21/19 16:24	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/21/19 16:24	127-18-4	
Toluene	**28.3**	ug/L	1.0	0.32	1		10/21/19 16:24	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 16:24	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/21/19 16:24	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/21/19 16:24	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 16:24	75-01-4	
Xylene (Total)	**53.3**	ug/L	3.0	1.4	1		10/21/19 16:24	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 16:24	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 16:24	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO70-PZM005 **Lab ID: 30329918010** Collected: 10/15/19 11:47 Received: 10/15/19 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	0.28	1		10/21/19 16:24	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/21/19 16:24	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/21/19 16:24	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		10/21/19 16:24	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		10/21/19 16:24	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		10/21/19 16:24	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		10/21/19 16:24	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO71-PZM006 **Lab ID: 30329918011** Collected: 10/15/19 12:11 Received: 10/15/19 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	2.7	5		10/21/19 15:09	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 15:09	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 15:09	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 15:09	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 15:09	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 15:09	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/21/19 15:09	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/21/19 15:09	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/21/19 15:09	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 15:09	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 15:09	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 15:09	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 15:09	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/21/19 15:09	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/21/19 15:09	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/21/19 15:09	108-10-1	
Acetone	**29.7J**	ug/L	50.0	28.0	5		10/21/19 15:09	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/21/19 15:09	107-13-1	
Benzene	**211**	ug/L	5.0	1.7	5		10/21/19 15:09	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 15:09	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 15:09	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/21/19 15:09	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/21/19 15:09	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 15:09	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/21/19 15:09	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/21/19 15:09	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/21/19 15:09	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 15:09	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 15:09	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/21/19 15:09	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 15:09	74-95-3	
Ethylbenzene	**5.8**	ug/L	5.0	2.0	5		10/21/19 15:09	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/21/19 15:09	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 15:09	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/21/19 15:09	75-09-2	
Naphthalene	**196**	ug/L	10.0	4.1	5		10/21/19 15:09	91-20-3	
Styrene	**23.0**	ug/L	5.0	1.6	5		10/21/19 15:09	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 15:09	127-18-4	
Toluene	**64.9**	ug/L	5.0	1.6	5		10/21/19 15:09	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/21/19 15:09	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/21/19 15:09	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/21/19 15:09	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 15:09	75-01-4	
Xylene (Total)	**123**	ug/L	15.0	6.8	5		10/21/19 15:09	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 15:09	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 15:09	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: CO71-PZM006 **Lab ID: 30329918011** Collected: 10/15/19 12:11 Received: 10/15/19 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	1.4	5		10/21/19 15:09	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 15:09	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/21/19 15:09	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		10/21/19 15:09	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	80-120		5		10/21/19 15:09	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		10/21/19 15:09	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		10/21/19 15:09	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.: 30329918

Sample: CO72-PZM005 **Lab ID: 30329918012** Collected: 10/15/19 12:29 Received: 10/15/19 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	2.7	5		10/21/19 15:33	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 15:33	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 15:33	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 15:33	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 15:33	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 15:33	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		10/21/19 15:33	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		10/21/19 15:33	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		10/21/19 15:33	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 15:33	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 15:33	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 15:33	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 15:33	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		10/21/19 15:33	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		10/21/19 15:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		10/21/19 15:33	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		10/21/19 15:33	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		10/21/19 15:33	107-13-1	
Benzene	**302**	ug/L	5.0	1.7	5		10/21/19 15:33	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		10/21/19 15:33	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 15:33	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		10/21/19 15:33	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		10/21/19 15:33	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 15:33	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		10/21/19 15:33	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		10/21/19 15:33	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		10/21/19 15:33	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 15:33	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 15:33	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		10/21/19 15:33	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		10/21/19 15:33	74-95-3	
Ethylbenzene	**10.7**	ug/L	5.0	2.0	5		10/21/19 15:33	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		10/21/19 15:33	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/21/19 15:33	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		10/21/19 15:33	75-09-2	
Naphthalene	**2950**	ug/L	20.0	8.2	10		10/21/19 18:41	91-20-3	
Styrene	**68.3**	ug/L	5.0	1.6	5		10/21/19 15:33	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/21/19 15:33	127-18-4	
Toluene	**101**	ug/L	5.0	1.6	5		10/21/19 15:33	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		10/21/19 15:33	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		10/21/19 15:33	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		10/21/19 15:33	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 15:33	75-01-4	
Xylene (Total)	**241**	ug/L	15.0	6.8	5		10/21/19 15:33	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		10/21/19 15:33	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		10/21/19 15:33	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.: 30329918

Sample: CO72-PZM005 **Lab ID: 30329918012** Collected: 10/15/19 12:29 Received: 10/15/19 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	1.4	5		10/21/19 15:33	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		10/21/19 15:33	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		10/21/19 15:33	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		10/21/19 15:33	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	80-120		5		10/21/19 15:33	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		10/21/19 15:33	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		5		10/21/19 15:33	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: Trip blank **Lab ID: 30329918013** Collected: 10/15/19 00:01 Received: 10/15/19 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	0.55	1		10/21/19 13:54	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 13:54	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		10/21/19 13:54	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/21/19 13:54	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		10/21/19 13:54	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		10/21/19 13:54	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		10/21/19 13:54	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		10/21/19 13:54	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		10/21/19 13:54	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 13:54	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		10/21/19 13:54	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		10/21/19 13:54	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		10/21/19 13:54	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		10/21/19 13:54	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		10/21/19 13:54	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		10/21/19 13:54	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		10/21/19 13:54	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		10/21/19 13:54	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		10/21/19 13:54	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		10/21/19 13:54	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		10/21/19 13:54	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		10/21/19 13:54	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		10/21/19 13:54	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/21/19 13:54	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		10/21/19 13:54	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		10/21/19 13:54	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		10/21/19 13:54	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		10/21/19 13:54	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		10/21/19 13:54	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		10/21/19 13:54	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		10/21/19 13:54	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		10/21/19 13:54	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		10/21/19 13:54	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		10/21/19 13:54	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		10/21/19 13:54	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		10/21/19 13:54	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		10/21/19 13:54	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/21/19 13:54	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		10/21/19 13:54	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 13:54	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		10/21/19 13:54	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		10/21/19 13:54	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 13:54	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		10/21/19 13:54	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		10/21/19 13:54	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		10/21/19 13:54	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30329918

Sample: Trip blank **Lab ID: 30329918013** Collected: 10/15/19 00:01 Received: 10/15/19 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	0.28	1		10/21/19 13:54	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		10/21/19 13:54	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		10/21/19 13:54	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		10/21/19 13:54	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	80-120		1		10/21/19 13:54	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		1		10/21/19 13:54	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120		1		10/21/19 13:54	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30329918

QC Batch: 367127 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30329918001, 30329918002, 30329918003, 30329918004, 30329918005, 30329918006, 30329918007, 30329918008, 30329918009, 30329918010, 30329918011, 30329918012, 30329918013

METHOD BLANK: 1780685 Matrix: Water
Associated Lab Samples: 30329918001, 30329918002, 30329918003, 30329918004, 30329918005, 30329918006, 30329918007, 30329918008, 30329918009, 30329918010, 30329918011, 30329918012, 30329918013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	10/21/19 13:29	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/21/19 13:29	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	10/21/19 13:29	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	10/21/19 13:29	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	10/21/19 13:29	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/21/19 13:29	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	10/21/19 13:29	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	10/21/19 13:29	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	10/21/19 13:29	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	10/21/19 13:29	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	10/21/19 13:29	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	10/21/19 13:29	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	10/21/19 13:29	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	10/21/19 13:29	
2-Hexanone	ug/L	10.0 U	10.0	0.58	10/21/19 13:29	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	10/21/19 13:29	
Acetone	ug/L	10.0 U	10.0	5.6	10/21/19 13:29	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	10/21/19 13:29	
Benzene	ug/L	1.0 U	1.0	0.34	10/21/19 13:29	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	10/21/19 13:29	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	10/21/19 13:29	
Bromoform	ug/L	1.0 U	1.0	0.56	10/21/19 13:29	
Bromomethane	ug/L	1.0 U	1.0	0.73	10/21/19 13:29	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/21/19 13:29	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	10/21/19 13:29	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	10/21/19 13:29	
Chloroethane	ug/L	1.0 U	1.0	0.64	10/21/19 13:29	
Chloroform	ug/L	1.0 U	1.0	0.39	10/21/19 13:29	
Chloromethane	ug/L	1.0 U	1.0	0.40	10/21/19 13:29	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/21/19 13:29	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	10/21/19 13:29	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	10/21/19 13:29	
Dibromomethane	ug/L	1.0 U	1.0	0.34	10/21/19 13:29	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	10/21/19 13:29	
Iodomethane	ug/L	50.0 U	50.0	0.52	10/21/19 13:29	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	10/21/19 13:29	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	10/21/19 13:29	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/21/19 13:29	
Styrene	ug/L	1.0 U	1.0	0.33	10/21/19 13:29	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/21/19 13:29	

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.: 30329918

METHOD BLANK: 1780685 Matrix: Water

Associated Lab Samples: 30329918001, 30329918002, 30329918003, 30329918004, 30329918005, 30329918006, 30329918007, 30329918008, 30329918009, 30329918010, 30329918011, 30329918012, 30329918013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.32	10/21/19 13:29	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/21/19 13:29	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	10/21/19 13:29	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	10/21/19 13:29	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/21/19 13:29	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	10/21/19 13:29	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	10/21/19 13:29	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/21/19 13:29	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	10/21/19 13:29	
1,2-Dichloroethane-d4 (S)	%.	101	80-120		10/21/19 13:29	
4-Bromofluorobenzene (S)	%.	99	78-122		10/21/19 13:29	
Dibromofluoromethane (S)	%.	97	80-120		10/21/19 13:29	
Toluene-d8 (S)	%.	98	80-120		10/21/19 13:29	

LABORATORY CONTROL SAMPLE: 1780686

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	18.0	90	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.6	103	70-130	
1,1,2-Trichloroethane	ug/L	20	20.5	102	70-130	
1,1-Dichloroethane	ug/L	20	18.8	94	68-121	
1,1-Dichloroethene	ug/L	20	17.6	88	63-129	
1,2,3-Trichloropropane	ug/L	20	20.0	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.2	91	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.7	104	70-130	
1,2-Dichlorobenzene	ug/L	20	19.4	97	70-130	
1,2-Dichloroethane	ug/L	20	18.5	93	67-117	
1,2-Dichloropropane	ug/L	20	20.7	104	69-121	
1,4-Dichlorobenzene	ug/L	20	19.6	98	70-130	
2-Butanone (MEK)	ug/L	20	19.4	97	59-128	
2-Hexanone	ug/L	20	21.2	106	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.7	104	63-126	
Acetone	ug/L	20	23.6	118	37-150	
Acrylonitrile	ug/L	20	20.5	102	62-128	
Benzene	ug/L	20	20.0	100	70-130	
Bromochloromethane	ug/L	20	21.6	108	59-137	
Bromodichloromethane	ug/L	20	20.0	100	70-130	
Bromoform	ug/L	20	16.8	84	65-130	
Bromomethane	ug/L	20	14.5	72	45-148	
Carbon disulfide	ug/L	20	18.9	94	55-123	
Carbon tetrachloride	ug/L	20	18.7	94	69-126	
Chlorobenzene	ug/L	20	21.1	106	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.: 30329918

LABORATORY CONTROL SAMPLE: 1780686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	29.9	149	68-146	L1
Chloroform	ug/L	20	19.7	99	69-116	
Chloromethane	ug/L	20	20.9	104	56-129	
cis-1,2-Dichloroethene	ug/L	20	18.7	94	66-118	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	70-130	
Dibromochloromethane	ug/L	20	20.3	101	70-130	
Dibromomethane	ug/L	20	19.4	97	70-130	
Ethylbenzene	ug/L	20	21.1	106	70-130	
Iodomethane	ug/L	20	15.8J	79	10-175	
Methyl-tert-butyl ether	ug/L	20	18.7	94	70-130	
Methylene Chloride	ug/L	20	19.7	98	65-124	
Naphthalene	ug/L	20	18.5	92	69-135	
Styrene	ug/L	20	21.4	107	70-130	
Tetrachloroethene	ug/L	20	20.2	101	70-130	
Toluene	ug/L	20	20.8	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.8	89	64-123	
trans-1,3-Dichloropropene	ug/L	20	21.1	105	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	19.8	99	37-119	
Trichloroethene	ug/L	20	19.3	96	70-130	
Trichlorofluoromethane	ug/L	20	25.4	127	64-163	
Vinyl acetate	ug/L	20	15.2	76	45-129	
Vinyl chloride	ug/L	20	24.6	123	70-130	
Xylene (Total)	ug/L	60	61.4	102	70-130	
1,2-Dichloroethane-d4 (S)	%.			94	80-120	
4-Bromofluorobenzene (S)	%.			100	78-122	
Dibromofluoromethane (S)	%.			98	80-120	
Toluene-d8 (S)	%.			103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1780687 1780688

Parameter	Units	30329918006 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	5.0 U	100	100	80.1	91.8	80	92	52-123	14	30	
1,1,1-Trichloroethane	ug/L	5.0 U	100	100	79.5	89.9	79	90	67-127	12	30	
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	100	100	74.1	88.8	74	89	55-118	18	30	
1,1,2-Trichloroethane	ug/L	5.0 U	100	100	75.5	92.6	75	93	60-117	20	30	
1,1-Dichloroethane	ug/L	5.0 U	100	100	83.4	91.1	83	91	68-118	9	30	
1,1-Dichloroethene	ug/L	5.0 U	100	100	76.8	87.3	77	87	62-126	13	30	
1,2,3-Trichloropropane	ug/L	5.0 U	100	100	74.8	85.4	75	85	56-129	13	30	
1,2-Dibromo-3-chloropropane	ug/L	25.0 U	100	100	66.6	61.9	67	62	46-130	7	30	
1,2-Dibromoethane (EDB)	ug/L	5.0 U	100	100	76.7	94.1	77	94	69-124	20	30	
1,2-Dichlorobenzene	ug/L	5.0 U	100	100	76.5	85.6	76	86	66-116	11	30	
1,2-Dichloroethane	ug/L	5.0 U	100	100	82.2	93.5	82	93	67-117	13	30	
1,2-Dichloropropane	ug/L	5.0 U	100	100	82.7	96.4	83	96	61-128	15	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.: 30329918

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1780687 1780688

Parameter	Units	30329918006 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	5.0 U	100	100	77.5	87.2	78	87	68-116	12	30	
2-Butanone (MEK)	ug/L	50.0 U	100	100	86.7	91.4	87	91	63-175	5	30	
2-Hexanone	ug/L	50.0 U	100	100	86.5	93.9	86	94	65-151	8	30	
4-Methyl-2-pentanone (MIBK)	ug/L	50.0 U	100	100	80.4	92.4	80	92	66-149	14	30	
Acetone	ug/L	50.0 U	100	100	128	132	102	107	10-175	4	30	
Acrylonitrile	ug/L	20.0 U	100	100	97.1	95.5	97	96	42-165	2	30	
Benzene	ug/L	315	100	100	411	411	96	96	67-119	0	30	
Bromochloromethane	ug/L	5.0 U	100	100	91.4	98.4	91	98	64-124	7	30	
Bromodichloromethane	ug/L	5.0 U	100	100	78.0	89.5	78	89	67-126	14	30	
Bromoform	ug/L	5.0 U	100	100	53.7	63.7	54	64	43-114	17	30	
Bromomethane	ug/L	5.0 U	100	100	28.0	40.2	28	40	10-164	36	30	R1
Carbon disulfide	ug/L	5.0 U	100	100	84.7	84.6	85	85	37-135	0	30	
Carbon tetrachloride	ug/L	5.0 U	100	100	82.5	90.3	82	90	60-137	9	30	
Chlorobenzene	ug/L	5.0 U	100	100	85.3	96.2	85	96	68-119	12	30	
Chloroethane	ug/L	5.0 U	100	100	137	112	137	112	54-169	20	30	
Chloroform	ug/L	5.0 U	100	100	87.9	96.1	88	96	69-113	9	30	
Chloromethane	ug/L	5.0 U	100	100	86.6	91.2	87	91	43-159	5	30	
cis-1,2-Dichloroethene	ug/L	5.0 U	100	100	81.0	92.5	81	92	65-121	13	30	
cis-1,3-Dichloropropene	ug/L	5.0 U	100	100	67.8	85.2	68	85	61-120	23	30	
Dibromochloromethane	ug/L	5.0 U	100	100	68.2	83.9	68	84	56-121	21	30	
Dibromomethane	ug/L	5.0 U	100	100	76.6	90.8	77	91	56-133	17	30	
Ethylbenzene	ug/L	14.3	100	100	98.2	108	84	93	69-127	9	30	
Iodomethane	ug/L	250 U	100	100	60.7J	84.9J	61	85	10-152		30	
Methyl-tert-butyl ether	ug/L	5.0 U	100	100	90.4	88.7	90	89	70-130	2	30	
Methylene Chloride	ug/L	5.0 U	100	100	87.6	98.0	88	98	49-144	11	30	
Naphthalene	ug/L	3380	200	200	3340	3550	-21	85	60-136	6	30	CL
Styrene	ug/L	66.4	100	100	159	167	93	101	65-120	5	30	
Tetrachloroethene	ug/L	5.0 U	100	100	78.0	93.5	78	94	64-123	18	30	
Toluene	ug/L	168	100	100	246	275	79	107	70-130	11	30	
trans-1,2-Dichloroethene	ug/L	5.0 U	100	100	78.7	85.8	79	86	66-119	9	30	
trans-1,3-Dichloropropene	ug/L	5.0 U	100	100	71.9	90.4	72	90	52-117	23	30	
trans-1,4-Dichloro-2-butene	ug/L	25.0 U	100	100	57.4	59.2	57	59	13-100	3	30	
Trichloroethene	ug/L	5.0 U	100	100	76.3	93.3	76	93	63-125	20	30	
Trichlorofluoromethane	ug/L	5.0 U	100	100	124	113	124	113	43-186	9	30	
Vinyl acetate	ug/L	5.0 U	100	100	70.6	70.3	71	70	35-150	0	30	
Vinyl chloride	ug/L	5.0 U	100	100	114	114	114	114	60-133	0	30	
Xylene (Total)	ug/L	293	300	300	548	571	85	93	69-128	4	30	
1,2-Dichloroethane-d4 (S)	%.						107	99	80-120			
4-Bromofluorobenzene (S)	%.						86	99	78-122			
Dibromofluoromethane (S)	%.						105	99	80-120			
Toluene-d8 (S)	%.						96	101	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 IM GW Sampling
Pace Project No.: 30329918

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.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
R1	RPD value was outside control limits.

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Pace Analytical Services, LLC
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.: 30329918

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30329918001	**CO43-PZM048**	EPA 8260B	367127		
30329918002	**CO61-PZM007**	EPA 8260B	367127		
30329918003	**CO63-PZM007**	EPA 8260B	367127		
30329918004	**CO64-PZM006**	EPA 8260B	367127		
30329918005	**CO65-PZM005**	EPA 8260B	367127		
30329918006	**CO66-PZM005**	EPA 8260B	367127		
30329918007	**CO67-PZM006**	EPA 8260B	367127		
30329918008	**CO68-PZM005**	EPA 8260B	367127		
30329918009	**CO69-PZM005**	EPA 8260B	367127		
30329918010	**CO70-PZM005**	EPA 8260B	367127		
30329918011	**CO71-PZM006**	EPA 8260B	367127		
30329918012	**CO72-PZM005**	EPA 8260B	367127		
30329918013	**Trip blank**	EPA 8260B	367127		

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CHAIN-OF-CUSTODY / Anal

The Chain-of-Custody is a LEGAL DOCUMENT. A

WO# : 30329918

30329918

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:	190276M-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	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	C043-PZM048	WT	G			10/16	0803		3				X					Y	X		001
2	C061-PZM007	WT	G			10/15	0848		3				X						X		002
3	C063-PZM007	WT	G			10/15	0937		3				X						X		003
4	C064-PZM006	WT	G			10/15	1302		3				X						X		004
5	C065-PZM005	WT	G			10/16	1001		3				X						X		005
6	C066-PZM005	WT	G			10/17	1019		3				X						X		006
7	C067-PZM006	WT	G			10/15	1048		3				X						X		007
8	C068-PZM005	WT	G			10/15	1106		3				X						X		008
9	C069-PZM005	WT	G			10/15	1129		3				X						X		009
10	C070-PZM005	WT	G			10/15	1147		3				X						X		010
11	C071-PZM006	WT	G			10/15	1211		3				X						X		011
12	C072-PZM005	WT	G			10/15	1229		3				X						X		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
no package	Jhua Borne	10/15/19	1505	David F. Hillegeas Pace	10/15/19	1551	
no validation	David F. Hillegeas Pace	10/15/19	1925	RDS FACE	10-15-19	1930	Y
	RDS FACE	10-15-19	2230	Marian L Clay	11-15-19	2230	.6 Y N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joshua Borne

SIGNATURE of SAMPLER: Jhua Borne

DATE Signed (MM/DD/YY): 10/15/19

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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Page: 2 of 2

Section A — Required Client Information:

Company:	EnviroAnalytics Group
Address:	1600 Sparrows Point Blvd, Suite B2
	Sparrows Point, MD 21219
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:	190275M-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# : 30329918
PM: SMB Due Date: 10/23/19
CLIENT: ENVIROANLYTC

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	Residue	Pace Project No./ Lab I.D.
Trip blank	WT				10/15			2				X					Y			013

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 package	Josh Barna ARM	10/15/19	1505	David Hollingsworth Pace	10/15/19	155				
no validation	David Hollingsworth/Pace	10/15/19	1925	RDS PACE	10-15-19	1930		Y		
	RDS PACE	10-15-19	2230	Maner & Clay	10/15/19	2230	.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joshua Barna

SIGNATURE of SAMPLER: Josh Barna DATE Signed (MM/DD/YY): 10/15/19

*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 Group Project # #_30329v18

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label MLC
LIMS Login MLC

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 .1b °C Correction Factor: 0 °C Final Temp: .1b °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# 10D3581	Date and Initials of person examining contents: MLC 10/16/19
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 sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16.	
All containers meet method preservation requirements.	✓			Initial when completed MLC	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):		✓		17.	
Trip Blank Present:	✓			18.	
Trip Blank Custody Seals Present	✓				
Rad 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 26, 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.: 30340541

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on December 12, 2019. 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.: 30340541

Pace Analytical Services Pennsylvania
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
Florida: Cert E871149 SEKS WET
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.: 30340541

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30340541001	**Trip Blank**	Water	12/12/19 00:01	12/12/19 23:45
30340541002	**CO104-PZMXXX**	Water	12/12/19 10:05	12/12/19 23:45
30340541003	**CO103-PZMXXX**	Water	12/12/19 10:45	12/12/19 23:45
30340541004	**CO102-PZMXXX**	Water	12/12/19 11:40	12/12/19 23:45
30340541005	**CO101-PZMXXX**	Water	12/12/19 12:15	12/12/19 23:45
30340541006	**CO93-PZM**	Water	12/12/19 13:45	12/12/19 23:45
30340541007	**CO18-PZM006**	Water	12/12/19 14:30	12/12/19 23:45
30340541008	**CO02-PZM006**	Water	12/12/19 15:30	12/12/19 23:45

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30340541

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30340541001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30340541002	**CO104-PZMXXX**	EPA 8260B	LEL	53	PASI-PA
30340541003	**CO103-PZMXXX**	EPA 8260B	LEL	53	PASI-PA
30340541004	**CO102-PZMXXX**	EPA 8260B	LEL	53	PASI-PA
30340541005	**CO101-PZMXXX**	EPA 8260B	LEL	53	PASI-PA
30340541006	**CO93-PZM**	EPA 8260B	LEL	53	PASI-PA
30340541007	**CO18-PZM006**	EPA 8260B	LEL	53	PASI-PA
30340541008	**CO02-PZM006**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340541

Sample: Trip Blank **Lab ID: 30340541001** Collected: 12/12/19 00:01 Received: 12/12/19 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	0.55	1		12/24/19 13:37	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 13:37	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/24/19 13:37	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 13:37	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 13:37	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 13:37	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/24/19 13:37	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.55	1		12/24/19 13:37	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 13:37	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 13:37	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 13:37	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/24/19 13:37	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 13:37	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1.5	1		12/24/19 13:37	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.58	1		12/24/19 13:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.42	1		12/24/19 13:37	108-10-1	
Acetone	ND	ug/L	10.0	5.6	1		12/24/19 13:37	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/24/19 13:37	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 13:37	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 13:37	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/24/19 13:37	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/24/19 13:37	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		12/24/19 13:37	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 13:37	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 13:37	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/24/19 13:37	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 13:37	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 13:37	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 13:37	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/24/19 13:37	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 13:37	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 13:37	100-41-4	
Iodomethane	ND	ug/L	1.0	0.52	1		12/24/19 13:37	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/24/19 13:37	1634-04-4	
Methylene Chloride	**2.7**	ug/L	1.0	0.64	1		12/24/19 13:37	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/24/19 13:37	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 13:37	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 13:37	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 13:37	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 13:37	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/24/19 13:37	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.57	1		12/24/19 13:37	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 13:37	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		12/24/19 13:37	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 13:37	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 13:37	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.: 30340541

Sample: Trip Blank **Lab ID: 30340541001** Collected: 12/12/19 00:01 Received: 12/12/19 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	0.28	1		12/24/19 13:37	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 13:37	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.58	1		12/24/19 13:37	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		1		12/24/19 13:37	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		1		12/24/19 13:37	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		12/24/19 13:37	2037-26-5	
Dibromofluoromethane (S)	106	%.	80-120		1		12/24/19 13:37	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340541

Sample: CO104-PZMXXX **Lab ID: 30340541002** Collected: 12/12/19 10:05 Received: 12/12/19 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	0.55	1		12/24/19 16:37	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 16:37	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/24/19 16:37	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 16:37	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 16:37	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 16:37	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/24/19 16:37	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/24/19 16:37	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 16:37	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 16:37	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 16:37	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/24/19 16:37	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 16:37	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/24/19 16:37	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/24/19 16:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/24/19 16:37	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/24/19 16:37	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/24/19 16:37	107-13-1	
Benzene	**3.9**	ug/L	1.0	0.34	1		12/24/19 16:37	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 16:37	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/24/19 16:37	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/24/19 16:37	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		12/24/19 16:37	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 16:37	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 16:37	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/24/19 16:37	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 16:37	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 16:37	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 16:37	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/24/19 16:37	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 16:37	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 16:37	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/24/19 16:37	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/24/19 16:37	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 16:37	75-09-2	
Naphthalene	**1.5J**	ug/L	2.0	0.82	1		12/24/19 16:37	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 16:37	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 16:37	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 16:37	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 16:37	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/24/19 16:37	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/24/19 16:37	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 16:37	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		12/24/19 16:37	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 16:37	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 16:37	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340541

Sample: CO104-PZMXXX **Lab ID: 30340541002** Collected: 12/12/19 10:05 Received: 12/12/19 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	0.28	1		12/24/19 16:37	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 16:37	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/24/19 16:37	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		1		12/24/19 16:37	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		1		12/24/19 16:37	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		12/24/19 16:37	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120		1		12/24/19 16:37	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340541

Sample: CO103-PZMXXX **Lab ID: 30340541003** Collected: 12/12/19 10:45 Received: 12/12/19 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	0.55	1		12/24/19 18:46	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 18:46	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/24/19 18:46	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 18:46	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 18:46	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 18:46	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/24/19 18:46	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/24/19 18:46	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 18:46	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 18:46	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 18:46	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/24/19 18:46	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 18:46	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/24/19 18:46	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/24/19 18:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/24/19 18:46	108-10-1	
Acetone	**10.7**	ug/L	10.0	5.6	1		12/24/19 18:46	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/24/19 18:46	107-13-1	
Benzene	**12100**	ug/L	50.0	16.9	50		12/24/19 17:15	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 18:46	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/24/19 18:46	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/24/19 18:46	75-25-2	
Bromomethane	**2.5**	ug/L	1.0	0.73	1		12/24/19 18:46	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 18:46	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 18:46	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/24/19 18:46	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 18:46	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 18:46	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 18:46	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/24/19 18:46	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 18:46	74-95-3	
Ethylbenzene	**29.8**	ug/L	1.0	0.40	1		12/24/19 18:46	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/24/19 18:46	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/24/19 18:46	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 18:46	75-09-2	
Naphthalene	**1370**	ug/L	100	41.0	50		12/24/19 17:15	91-20-3	
Styrene	**2.3**	ug/L	1.0	0.33	1		12/24/19 18:46	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 18:46	127-18-4	
Toluene	**608**	ug/L	50.0	15.8	50		12/24/19 17:15	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 18:46	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/24/19 18:46	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/24/19 18:46	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 18:46	75-01-4	
Xylene (Total)	**453**	ug/L	3.0	1.4	1		12/24/19 18:46	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 18:46	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 18:46	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340541

Sample: CO103-PZMXXX **Lab ID: 30340541003** Collected: 12/12/19 10:45 Received: 12/12/19 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	0.28	1		12/24/19 18:46	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 18:46	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/24/19 18:46	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		12/24/19 18:46	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		1		12/24/19 18:46	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		12/24/19 18:46	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		1		12/24/19 18:46	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340541

Sample: CO102-PZMXXX **Lab ID: 30340541004** Collected: 12/12/19 11:40 Received: 12/12/19 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	2.7	5		12/24/19 19:37	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 19:37	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 19:37	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 19:37	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 19:37	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 19:37	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/24/19 19:37	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/24/19 19:37	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/24/19 19:37	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 19:37	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 19:37	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 19:37	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 19:37	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/24/19 19:37	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/24/19 19:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/24/19 19:37	108-10-1	
Acetone	**47.6J**	ug/L	50.0	28.0	5		12/24/19 19:37	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/24/19 19:37	107-13-1	
Benzene	**12100**	ug/L	100	33.8	100		12/24/19 18:07	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 19:37	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 19:37	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/24/19 19:37	75-25-2	
Bromomethane	**12.3**	ug/L	5.0	3.6	5		12/24/19 19:37	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 19:37	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/24/19 19:37	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/24/19 19:37	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/24/19 19:37	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 19:37	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 19:37	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/24/19 19:37	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 19:37	74-95-3	
Ethylbenzene	**20.3**	ug/L	5.0	2.0	5		12/24/19 19:37	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/24/19 19:37	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 19:37	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/24/19 19:37	75-09-2	
Naphthalene	**974**	ug/L	10.0	4.1	5		12/24/19 19:37	91-20-3	
Styrene	**5.7**	ug/L	5.0	1.6	5		12/24/19 19:37	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 19:37	127-18-4	
Toluene	**926**	ug/L	5.0	1.6	5		12/24/19 19:37	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/24/19 19:37	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/24/19 19:37	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/24/19 19:37	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 19:37	75-01-4	
Xylene (Total)	**222**	ug/L	15.0	6.8	5		12/24/19 19:37	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 19:37	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 19:37	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340541

Sample: CO102-PZMXXX **Lab ID: 30340541004** Collected: 12/12/19 11:40 Received: 12/12/19 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	1.4	5		12/24/19 19:37	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 19:37	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/24/19 19:37	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		5		12/24/19 19:37	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		5		12/24/19 19:37	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		5		12/24/19 19:37	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		5		12/24/19 19:37	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340541

Sample: CO101-PZMXXX **Lab ID: 30340541005** Collected: 12/12/19 12:15 Received: 12/12/19 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	0.55	1		12/24/19 18:20	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 18:20	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/24/19 18:20	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 18:20	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 18:20	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 18:20	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/24/19 18:20	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/24/19 18:20	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 18:20	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 18:20	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 18:20	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/24/19 18:20	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 18:20	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/24/19 18:20	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/24/19 18:20	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/24/19 18:20	108-10-1	
Acetone	**7.4J**	ug/L	10.0	5.6	1		12/24/19 18:20	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/24/19 18:20	107-13-1	
Benzene	**4810**	ug/L	20.0	6.8	20		12/24/19 16:50	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 18:20	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/24/19 18:20	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/24/19 18:20	75-25-2	
Bromomethane	**0.75J**	ug/L	1.0	0.73	1		12/24/19 18:20	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 18:20	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 18:20	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/24/19 18:20	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 18:20	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 18:20	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 18:20	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/24/19 18:20	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 18:20	74-95-3	
Ethylbenzene	**5.8**	ug/L	1.0	0.40	1		12/24/19 18:20	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/24/19 18:20	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/24/19 18:20	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 18:20	75-09-2	
Naphthalene	**186**	ug/L	2.0	0.82	1		12/24/19 18:20	91-20-3	
Styrene	**1.5**	ug/L	1.0	0.33	1		12/24/19 18:20	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 18:20	127-18-4	
Toluene	**374**	ug/L	1.0	0.32	1		12/24/19 18:20	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 18:20	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/24/19 18:20	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/24/19 18:20	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 18:20	75-01-4	
Xylene (Total)	**70.7**	ug/L	3.0	1.4	1		12/24/19 18:20	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 18:20	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 18:20	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340541

Sample: CO101-PZMXXX **Lab ID: 30340541005** Collected: 12/12/19 12:15 Received: 12/12/19 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	0.28	1		12/24/19 18:20	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 18:20	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/24/19 18:20	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		1		12/24/19 18:20	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%.	80-120		1		12/24/19 18:20	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		12/24/19 18:20	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		1		12/24/19 18:20	1868-53-7	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340541

Sample: CO93-PZM **Lab ID: 30340541006** Collected: 12/12/19 13:45 Received: 12/12/19 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	2.7	5		12/24/19 20:54	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 20:54	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 20:54	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 20:54	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 20:54	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 20:54	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/24/19 20:54	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/24/19 20:54	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/24/19 20:54	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 20:54	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 20:54	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 20:54	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 20:54	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/24/19 20:54	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/24/19 20:54	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/24/19 20:54	108-10-1	
Acetone	**40.3J**	ug/L	50.0	28.0	5		12/24/19 20:54	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/24/19 20:54	107-13-1	
Benzene	**148000**	ug/L	1000	338	1000		12/24/19 19:24	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 20:54	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 20:54	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/24/19 20:54	75-25-2	
Bromomethane	**7.1**	ug/L	5.0	3.6	5		12/24/19 20:54	74-83-9	CL
Carbon disulfide	**6.6**	ug/L	5.0	1.6	5		12/24/19 20:54	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/24/19 20:54	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/24/19 20:54	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/24/19 20:54	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 20:54	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 20:54	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/24/19 20:54	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 20:54	74-95-3	
Ethylbenzene	**1210**	ug/L	5.0	2.0	5		12/24/19 20:54	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/24/19 20:54	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 20:54	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/24/19 20:54	75-09-2	
Naphthalene	**4800**	ug/L	2000	819	1000		12/24/19 19:24	91-20-3	
Styrene	**1320**	ug/L	5.0	1.6	5		12/24/19 20:54	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 20:54	127-18-4	
Toluene	**54000**	ug/L	1000	317	1000		12/24/19 19:24	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/24/19 20:54	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/24/19 20:54	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/24/19 20:54	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 20:54	75-01-4	
Xylene (Total)	**12500**	ug/L	3000	1350	1000		12/24/19 19:24	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 20:54	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 20:54	10061-01-5	

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340541

Sample: CO93-PZM **Lab ID: 30340541006** Collected: 12/12/19 13:45 Received: 12/12/19 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	1.4	5		12/24/19 20:54	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 20:54	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/24/19 20:54	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		5		12/24/19 20:54	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		5		12/24/19 20:54	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		12/24/19 20:54	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		5		12/24/19 20:54	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340541

Sample: CO18-PZM006 **Lab ID: 30340541007** Collected: 12/12/19 14:30 Received: 12/12/19 23:45 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	**5.0 U**	ug/L	5.0	2.7	5		12/24/19 21:45	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 21:45	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 21:45	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 21:45	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 21:45	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 21:45	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/24/19 21:45	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/24/19 21:45	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/24/19 21:45	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 21:45	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 21:45	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 21:45	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 21:45	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/24/19 21:45	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/24/19 21:45	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/24/19 21:45	108-10-1	
Acetone	**75.8**	ug/L	50.0	28.0	5		12/24/19 21:45	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/24/19 21:45	107-13-1	
Benzene	**241000**	ug/L	1000	338	1000		12/24/19 20:16	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 21:45	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 21:45	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/24/19 21:45	75-25-2	
Bromomethane	**8.5**	ug/L	5.0	3.6	5		12/24/19 21:45	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 21:45	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/24/19 21:45	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/24/19 21:45	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/24/19 21:45	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 21:45	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 21:45	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/24/19 21:45	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 21:45	74-95-3	
Ethylbenzene	**94.3**	ug/L	5.0	2.0	5		12/24/19 21:45	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/24/19 21:45	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 21:45	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/24/19 21:45	75-09-2	
Naphthalene	**211**	ug/L	10.0	4.1	5		12/24/19 21:45	91-20-3	
Styrene	**25.3**	ug/L	5.0	1.6	5		12/24/19 21:45	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 21:45	127-18-4	
Toluene	**8660**	ug/L	1000	317	1000		12/24/19 20:16	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/24/19 21:45	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/24/19 21:45	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/24/19 21:45	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 21:45	75-01-4	
Xylene (Total)	**2340**	ug/L	15.0	6.8	5		12/24/19 21:45	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 21:45	156-59-2	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340541

Sample: CO18-PZM006 **Lab ID: 30340541007** Collected: 12/12/19 14:30 Received: 12/12/19 23:45 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	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 21:45	10061-01-5	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 21:45	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 21:45	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/24/19 21:45	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		12/24/19 21:45	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		5		12/24/19 21:45	17060-07-0	
Toluene-d8 (S)	101	%.	80-120		5		12/24/19 21:45	2037-26-5	
Dibromofluoromethane (S)	90	%.	80-120		5		12/24/19 21:45	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340541

Sample: CO02-PZM006 **Lab ID: 30340541008** Collected: 12/12/19 15:30 Received: 12/12/19 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	2.7	5		12/24/19 21:19	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 21:19	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 21:19	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 21:19	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 21:19	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 21:19	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/24/19 21:19	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/24/19 21:19	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/24/19 21:19	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 21:19	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 21:19	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 21:19	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 21:19	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/24/19 21:19	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/24/19 21:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/24/19 21:19	108-10-1	
Acetone	**37.0J**	ug/L	50.0	28.0	5		12/24/19 21:19	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/24/19 21:19	107-13-1	
Benzene	**141000**	ug/L	1000	338	1000		12/24/19 19:50	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 21:19	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 21:19	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/24/19 21:19	75-25-2	
Bromomethane	**6.3**	ug/L	5.0	3.6	5		12/24/19 21:19	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 21:19	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/24/19 21:19	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/24/19 21:19	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/24/19 21:19	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 21:19	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 21:19	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/24/19 21:19	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 21:19	74-95-3	
Ethylbenzene	**350**	ug/L	5.0	2.0	5		12/24/19 21:19	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/24/19 21:19	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 21:19	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/24/19 21:19	75-09-2	
Naphthalene	**318**	ug/L	10.0	4.1	5		12/24/19 21:19	91-20-3	
Styrene	**9.2**	ug/L	5.0	1.6	5		12/24/19 21:19	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 21:19	127-18-4	
Toluene	**155**	ug/L	5.0	1.6	5		12/24/19 21:19	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/24/19 21:19	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/24/19 21:19	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/24/19 21:19	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 21:19	75-01-4	
Xylene (Total)	**469**	ug/L	15.0	6.8	5		12/24/19 21:19	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 21:19	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 21:19	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340541

Sample: CO02-PZM006 **Lab ID: 30340541008** Collected: 12/12/19 15:30 Received: 12/12/19 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	1.4	5		12/24/19 21:19	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 21:19	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/24/19 21:19	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		12/24/19 21:19	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		5		12/24/19 21:19	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		12/24/19 21:19	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		5		12/24/19 21:19	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30340541

QC Batch: 376984 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30340541001, 30340541002, 30340541003, 30340541004, 30340541005, 30340541006, 30340541007, 30340541008

METHOD BLANK: 1828772 Matrix: Water
Associated Lab Samples: 30340541001, 30340541002, 30340541003, 30340541004, 30340541005, 30340541006, 30340541007, 30340541008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	12/24/19 13:11	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	12/24/19 13:11	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	12/24/19 13:11	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	12/24/19 13:11	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	12/24/19 13:11	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	12/24/19 13:11	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	12/24/19 13:11	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	12/24/19 13:11	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	12/24/19 13:11	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	12/24/19 13:11	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	12/24/19 13:11	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	12/24/19 13:11	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	12/24/19 13:11	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	12/24/19 13:11	
2-Hexanone	ug/L	10.0 U	10.0	0.58	12/24/19 13:11	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	12/24/19 13:11	
Acetone	ug/L	6.2J	10.0	5.6	12/24/19 13:11	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	12/24/19 13:11	
Benzene	ug/L	1.0 U	1.0	0.34	12/24/19 13:11	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	12/24/19 13:11	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	12/24/19 13:11	
Bromoform	ug/L	1.0 U	1.0	0.56	12/24/19 13:11	
Bromomethane	ug/L	1.0 U	1.0	0.73	12/24/19 13:11	CL
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/24/19 13:11	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	12/24/19 13:11	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	12/24/19 13:11	
Chloroethane	ug/L	1.0 U	1.0	0.64	12/24/19 13:11	
Chloroform	ug/L	1.0 U	1.0	0.39	12/24/19 13:11	
Chloromethane	ug/L	1.0 U	1.0	0.40	12/24/19 13:11	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	12/24/19 13:11	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	12/24/19 13:11	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	12/24/19 13:11	
Dibromomethane	ug/L	1.0 U	1.0	0.34	12/24/19 13:11	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	12/24/19 13:11	
Iodomethane	ug/L	50.0 U	50.0	0.52	12/24/19 13:11	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	12/24/19 13:11	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	12/24/19 13:11	
Naphthalene	ug/L	2.0 U	2.0	0.82	12/24/19 13:11	
Styrene	ug/L	1.0 U	1.0	0.33	12/24/19 13:11	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	12/24/19 13:11	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30340541

METHOD BLANK: 1828772 Matrix: Water

Associated Lab Samples: 30340541001, 30340541002, 30340541003, 30340541004, 30340541005, 30340541006, 30340541007, 30340541008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.32	12/24/19 13:11	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	12/24/19 13:11	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	12/24/19 13:11	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	12/24/19 13:11	
Trichloroethene	ug/L	1.0 U	1.0	0.29	12/24/19 13:11	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	12/24/19 13:11	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	12/24/19 13:11	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	12/24/19 13:11	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	12/24/19 13:11	
1,2-Dichloroethane-d4 (S)	%.	102	80-120		12/24/19 13:11	
4-Bromofluorobenzene (S)	%.	98	78-122		12/24/19 13:11	
Dibromofluoromethane (S)	%.	99	80-120		12/24/19 13:11	
Toluene-d8 (S)	%.	98	80-120		12/24/19 13:11	

LABORATORY CONTROL SAMPLE: 1828773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.3	101	70-130	
1,1,1-Trichloroethane	ug/L	20	20.2	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	70-130	
1,1,2-Trichloroethane	ug/L	20	19.7	99	70-130	
1,1-Dichloroethane	ug/L	20	20.1	101	68-121	
1,1-Dichloroethene	ug/L	20	19.0	95	63-129	
1,2,3-Trichloropropane	ug/L	20	19.3	96	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	15.2	76	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	19.7	99	70-130	
1,2-Dichlorobenzene	ug/L	20	20.9	105	70-130	
1,2-Dichloroethane	ug/L	20	19.3	96	67-117	
1,2-Dichloropropane	ug/L	20	21.8	109	69-121	
1,4-Dichlorobenzene	ug/L	20	20.6	103	70-130	
2-Butanone (MEK)	ug/L	20	21.0	105	59-128	
2-Hexanone	ug/L	20	22.6	113	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	22.0	110	63-126	
Acetone	ug/L	20	29.4	147	37-150	
Acrylonitrile	ug/L	20	23.7	118	62-128	
Benzene	ug/L	20	18.9	95	70-130	
Bromochloromethane	ug/L	20	18.8	94	59-137	
Bromodichloromethane	ug/L	20	17.9	90	70-130	
Bromoform	ug/L	20	14.7	74	65-130	
Bromomethane	ug/L	20	11.9	60	45-148	CL
Carbon disulfide	ug/L	20	16.1	81	55-123	
Carbon tetrachloride	ug/L	20	18.7	94	69-126	
Chlorobenzene	ug/L	20	21.1	105	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30340541

LABORATORY CONTROL SAMPLE: 1828773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	17.1	86	68-146	
Chloroform	ug/L	20	19.3	97	69-116	
Chloromethane	ug/L	20	19.6	98	56-129	
cis-1,2-Dichloroethene	ug/L	20	20.5	102	66-118	
cis-1,3-Dichloropropene	ug/L	20	17.3	87	70-130	
Dibromochloromethane	ug/L	20	16.8	84	70-130	
Dibromomethane	ug/L	20	17.6	88	70-130	
Ethylbenzene	ug/L	20	21.3	107	70-130	
Iodomethane	ug/L	20	20.9J	104	10-175	
Methyl-tert-butyl ether	ug/L	20	18.3	92	70-130	
Methylene Chloride	ug/L	20	23.5	118	65-124	
Naphthalene	ug/L	20	19.9	100	69-135	
Styrene	ug/L	20	21.1	105	70-130	
Tetrachloroethene	ug/L	20	20.2	101	70-130	
Toluene	ug/L	20	20.1	101	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.2	101	64-123	
trans-1,3-Dichloropropene	ug/L	20	17.6	88	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	17.5	88	37-119	
Trichloroethene	ug/L	20	21.0	105	70-130	
Trichlorofluoromethane	ug/L	20	20.3	101	64-163	
Vinyl acetate	ug/L	20	20.1	100	45-129	
Vinyl chloride	ug/L	20	19.3	96	70-130	
Xylene (Total)	ug/L	60	61.1	102	70-130	
1,2-Dichloroethane-d4 (S)	%.			95	80-120	
4-Bromofluorobenzene (S)	%.			97	78-122	
Dibromofluoromethane (S)	%.			100	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1828774 1828775

Parameter	Units	30341986003 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	15.5	16.9	78	84	52-123	8	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.8	17.5	84	87	67-127	4	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.2	18.0	81	90	55-118	11	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	15.4	16.9	77	84	60-117	9	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	16.8	18.3	84	92	68-118	9	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	13.0	13.5	65	68	62-126	4	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	15.2	17.2	76	86	56-129	12	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	10.7	11.9	54	59	46-130	10	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	14.7	16.6	74	83	69-124	12	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	15.5	17.8	78	89	66-116	13	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	15.8	16.3	79	82	67-117	3	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	17.0	18.3	85	91	61-128	7	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30340541

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1828774 1828775

Parameter	Units	30341986003 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	15.4	17.2	77	86	68-116	11	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	18.9	22.0	95	110	63-175	15	30	
2-Hexanone	ug/L	1.3J	20	20	19.2	21.5	90	101	65-151	11	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	19.3	20.5	97	103	66-149	6	30	
Acetone	ug/L	5.8J	20	20	24.2	21.4	92	78	10-175	12	30	
Acrylonitrile	ug/L	4.0 U	20	20	17.3	21.4	86	107	42-165	21	30	
Benzene	ug/L	49.8	20	20	85.7	70.9	180	106	67-119	19	30	C8,MH
Bromochloromethane	ug/L	1.0 U	20	20	16.1	16.8	80	84	64-124	5	30	
Bromodichloromethane	ug/L	1.0 U	20	20	13.9	14.2	69	71	67-126	3	30	
Bromoform	ug/L	1.0 U	20	20	10.3	10.7	51	53	43-114	4	30	
Bromomethane	ug/L	1.0 U	20	20	3.6	3.4	18	17	10-164	7	30	CL
Carbon disulfide	ug/L	1.0 U	20	20	9.2	9.9	46	49	37-135	6	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	15.1	16.1	75	81	60-137	7	30	
Chlorobenzene	ug/L	1.0 U	20	20	17.0	18.1	85	90	68-119	6	30	
Chloroethane	ug/L	1.0 U	20	20	12.2	12.3	61	62	54-169	1	30	
Chloroform	ug/L	1.0 U	20	20	15.5	17.0	77	85	69-113	9	30	
Chloromethane	ug/L	1.0 U	20	20	14.8	15.0	74	75	43-159	1	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.9	17.3	84	87	65-121	3	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	13.0	13.7	65	68	61-120	5	30	
Dibromochloromethane	ug/L	1.0 U	20	20	11.8	12.9	59	65	56-121	9	30	
Dibromomethane	ug/L	1.0 U	20	20	14.4	15.5	72	78	56-133	8	30	
Ethylbenzene	ug/L	1.0 U	20	20	16.6	18.4	83	92	69-127	10	30	
Iodomethane	ug/L	50.0 U	20	20	3.9J	7.3J	20	36	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	15.0	13.9	75	69	70-130	8	30	ML
Methylene Chloride	ug/L	1.0 U	20	20	17.8	15.8	89	79	49-144	12	30	
Naphthalene	ug/L	2.0 U	20	20	17.6	18.1	88	91	60-136	3	30	
Styrene	ug/L	1.0 U	20	20	16.2	18.3	81	92	65-120	12	30	
Tetrachloroethene	ug/L	1.0 U	20	20	16.1	17.7	81	88	64-123	9	30	
Toluene	ug/L	1.0 U	20	20	18.7	18.3	94	91	70-130	2	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.0	14.6	85	73	66-119	15	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	12.9	14.5	65	73	52-117	11	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	7.9	8.5	40	43	13-100	7	30	
Trichloroethene	ug/L	1.0 U	20	20	16.9	18.3	84	91	63-125	8	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	19.0	17.6	95	88	43-186	8	30	
Vinyl acetate	ug/L	1.0 U	20	20	15.9	15.7	79	79	35-150	1	30	
Vinyl chloride	ug/L	1.0 U	20	20	16.0	15.8	80	79	60-133	2	30	
Xylene (Total)	ug/L	3.0 U	60	60	50.2	53.3	84	89	69-128	6	30	
1,2-Dichloroethane-d4 (S)	%.						103	98	80-120			
4-Bromofluorobenzene (S)	%.						96	99	78-122			
Dibromofluoromethane (S)	%.						104	101	80-120			
Toluene-d8 (S)	%.						95	96	80-120			

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QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30340541

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.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
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.: 30340541

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30340541001	**Trip Blank**	EPA 8260B	376984		
30340541002	**CO104-PZMXXX**	EPA 8260B	376984		
30340541003	**CO103-PZMXXX**	EPA 8260B	376984		
30340541004	**CO102-PZMXXX**	EPA 8260B	376984		
30340541005	**CO101-PZMXXX**	EPA 8260B	376984		
30340541006	**CO93-PZM**	EPA 8260B	376984		
30340541007	**CO18-PZM006**	EPA 8260B	376984		
30340541008	**CO02-PZM006**	EPA 8260B	376984		

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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: jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056 Fax:
Required 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: 190275m-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# : 30340541

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	Analysis Test: VOC + NAPH by 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
Trip Blank	WT	G			12/2/19	—		2				2					X			001
C0104-PZMXXX	WT	G				1005		3				3					X			002
C0103-PZMXXX	WT	G				1045		3				3					X			003
C0102-PZMXXX	WT	G				1140		3				3					X			004
C0101-PZMXXX	WT	G				1215		3				3					X			005
C093-PZM	WT	G				1345		3				3					X			006
C018-PZM006	WT	G				1430		3				3					X			007
C042-PZM006	WT	G				1530		3				3					X			008

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
No pkgs		12-2-19	1545		12/2/19	1700				
		12/2/19	2025		12-2-19	2045		4/		
	RDS FACE	12-2-19	2345		12-2-19	2345	0.8	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lisa Perry
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12-12-19

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: EnviroAnalytics Project #: 30340541

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label BLM
LIMS Login BLM

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 0,8 °C Correction Factor: 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: BLM 12-13-19

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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix		✓		16.
All containers meet method preservation requirements.	✓			Initial when completed: BLM Date/time of preservation: Lot # of added preservative:
Headspace in VOA Vials (>6mm):	✓			17. Sample C018-PZM006 has one
Trip Blank Present:	✓			18. vial with headspace
Trip Blank Custody Seals Present	✓			
Rad 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 26, 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.: 30340799

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on December 13, 2019. 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.: 30340799

Pace Analytical Services Pennsylvania
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
Florida: Cert E871149 SEKS WET
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.: 30340799

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30340799001	**Trip Blank**	Water	12/13/19 00:01	12/13/19 23:00
30340799002	**CO24-PZM007**	Water	12/13/19 08:25	12/13/19 23:00
30340799003	**CO23-PZM008**	Water	12/13/19 09:10	12/13/19 23:00
30340799004	**CO56-PZP001**	Water	12/13/19 09:40	12/13/19 23:00
30340799005	**CO55-PZM000**	Water	12/13/19 10:38	12/13/19 23:00
30340799006	**CO59-PZP002**	Water	12/13/19 12:10	12/13/19 23:00
30340799007	**CO57-PZP002**	Water	12/13/19 12:45	12/13/19 23:00
30340799008	**CO60-PZP001**	Water	12/13/19 13:30	12/13/19 23:00
30340799009	**CO58-PZM001**	Water	12/13/19 14:30	12/13/19 23:00

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30340799

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30340799001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30340799002	**CO24-PZM007**	EPA 8260B	LEL	53	PASI-PA
30340799003	**CO23-PZM008**	EPA 8260B	LEL	53	PASI-PA
30340799004	**CO56-PZP001**	EPA 8260B	LEL	53	PASI-PA
30340799005	**CO55-PZM000**	EPA 8260B	LEL	53	PASI-PA
30340799006	**CO59-PZP002**	EPA 8260B	LEL	53	PASI-PA
30340799007	**CO57-PZP002**	EPA 8260B	LEL	53	PASI-PA
30340799008	**CO60-PZP001**	EPA 8260B	LEL	53	PASI-PA
30340799009	**CO58-PZM001**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340799

Sample: Trip Blank **Lab ID: 30340799001** Collected: 12/13/19 00:01 Received: 12/13/19 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	0.55	1		12/24/19 14:02	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 14:02	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/24/19 14:02	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 14:02	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 14:02	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 14:02	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/24/19 14:02	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/24/19 14:02	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 14:02	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 14:02	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 14:02	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/24/19 14:02	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 14:02	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/24/19 14:02	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/24/19 14:02	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/24/19 14:02	108-10-1	
Acetone	**6.9J**	ug/L	10.0	5.6	1		12/24/19 14:02	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/24/19 14:02	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 14:02	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 14:02	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/24/19 14:02	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/24/19 14:02	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		12/24/19 14:02	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 14:02	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 14:02	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/24/19 14:02	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 14:02	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 14:02	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 14:02	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/24/19 14:02	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 14:02	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 14:02	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/24/19 14:02	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/24/19 14:02	1634-04-4	
Methylene Chloride	**2.8**	ug/L	1.0	0.64	1		12/24/19 14:02	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/24/19 14:02	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 14:02	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 14:02	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 14:02	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 14:02	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/24/19 14:02	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/24/19 14:02	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 14:02	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		12/24/19 14:02	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 14:02	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 14:02	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340799

Sample: Trip Blank **Lab ID: 30340799001** Collected: 12/13/19 00:01 Received: 12/13/19 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	0.28	1		12/24/19 14:02	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 14:02	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/24/19 14:02	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		12/24/19 14:02	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		1		12/24/19 14:02	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		12/24/19 14:02	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		1		12/24/19 14:02	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.: 30340799

Sample: CO24-PZM007 **Lab ID: 30340799002** Collected: 12/13/19 08:25 Received: 12/13/19 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	0.55	1		12/24/19 17:03	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 17:03	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/24/19 17:03	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 17:03	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 17:03	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 17:03	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/24/19 17:03	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/24/19 17:03	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 17:03	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 17:03	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 17:03	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/24/19 17:03	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 17:03	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/24/19 17:03	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/24/19 17:03	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/24/19 17:03	108-10-1	
Acetone	**10J**	ug/L	10.0	5.6	1		12/24/19 17:03	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/24/19 17:03	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 17:03	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 17:03	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/24/19 17:03	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/24/19 17:03	75-25-2	
Bromomethane	**1.0J**	ug/L	1.0	0.73	1		12/24/19 17:03	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 17:03	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 17:03	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/24/19 17:03	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 17:03	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 17:03	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 17:03	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/24/19 17:03	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 17:03	74-95-3	
Ethylbenzene	**4.5**	ug/L	1.0	0.40	1		12/24/19 17:03	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/24/19 17:03	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/24/19 17:03	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 17:03	75-09-2	
Naphthalene	**2190**	ug/L	40.0	16.4	20		12/24/19 15:32	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 17:03	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 17:03	127-18-4	
Toluene	**1.6**	ug/L	1.0	0.32	1		12/24/19 17:03	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 17:03	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/24/19 17:03	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/24/19 17:03	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 17:03	75-01-4	
Xylene (Total)	**5.9**	ug/L	3.0	1.4	1		12/24/19 17:03	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 17:03	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 17:03	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340799

Sample: CO24-PZM007 **Lab ID: 30340799002** Collected: 12/13/19 08:25 Received: 12/13/19 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	0.28	1		12/24/19 17:03	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 17:03	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/24/19 17:03	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		1		12/24/19 17:03	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	80-120		1		12/24/19 17:03	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		1		12/24/19 17:03	2037-26-5	
Dibromofluoromethane (S)	105	%.	80-120		1		12/24/19 17:03	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340799

Sample: CO23-PZM008 **Lab ID: 30340799003** Collected: 12/13/19 09:10 Received: 12/13/19 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	2.7	5		12/24/19 19:11	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 19:11	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 19:11	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 19:11	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 19:11	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 19:11	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/24/19 19:11	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/24/19 19:11	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/24/19 19:11	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 19:11	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 19:11	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 19:11	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 19:11	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/24/19 19:11	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/24/19 19:11	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/24/19 19:11	108-10-1	
Acetone	**79.0**	ug/L	50.0	28.0	5		12/24/19 19:11	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/24/19 19:11	107-13-1	
Benzene	**599**	ug/L	5.0	1.7	5		12/24/19 19:11	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 19:11	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 19:11	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/24/19 19:11	75-25-2	
Bromomethane	**8.7**	ug/L	5.0	3.6	5		12/24/19 19:11	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 19:11	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/24/19 19:11	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/24/19 19:11	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/24/19 19:11	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 19:11	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 19:11	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/24/19 19:11	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 19:11	74-95-3	
Ethylbenzene	**27.8**	ug/L	5.0	2.0	5		12/24/19 19:11	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/24/19 19:11	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 19:11	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/24/19 19:11	75-09-2	
Naphthalene	**3250**	ug/L	200	81.9	100		12/24/19 17:41	91-20-3	
Styrene	**25.4**	ug/L	5.0	1.6	5		12/24/19 19:11	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 19:11	127-18-4	
Toluene	**303**	ug/L	5.0	1.6	5		12/24/19 19:11	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/24/19 19:11	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/24/19 19:11	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/24/19 19:11	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 19:11	75-01-4	
Xylene (Total)	**431**	ug/L	15.0	6.8	5		12/24/19 19:11	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 19:11	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 19:11	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340799

Sample: CO23-PZM008 **Lab ID: 30340799003** Collected: 12/13/19 09:10 Received: 12/13/19 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	1.4	5		12/24/19 19:11	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 19:11	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/24/19 19:11	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		12/24/19 19:11	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		5		12/24/19 19:11	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		5		12/24/19 19:11	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		12/24/19 19:11	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340799

Sample: CO56-PZP001 **Lab ID: 30340799004** Collected: 12/13/19 09:40 Received: 12/13/19 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	2.7	5		12/24/19 20:03	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 20:03	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 20:03	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 20:03	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 20:03	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 20:03	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/24/19 20:03	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/24/19 20:03	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/24/19 20:03	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 20:03	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 20:03	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 20:03	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 20:03	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/24/19 20:03	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/24/19 20:03	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/24/19 20:03	108-10-1	
Acetone	**77.3**	ug/L	50.0	28.0	5		12/24/19 20:03	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/24/19 20:03	107-13-1	
Benzene	**361**	ug/L	5.0	1.7	5		12/24/19 20:03	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 20:03	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 20:03	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/24/19 20:03	75-25-2	
Bromomethane	**12.0**	ug/L	5.0	3.6	5		12/24/19 20:03	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 20:03	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/24/19 20:03	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/24/19 20:03	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/24/19 20:03	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 20:03	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 20:03	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/24/19 20:03	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 20:03	74-95-3	
Ethylbenzene	**10.5**	ug/L	5.0	2.0	5		12/24/19 20:03	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/24/19 20:03	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 20:03	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/24/19 20:03	75-09-2	
Naphthalene	**2790**	ug/L	200	81.9	100		12/24/19 18:33	91-20-3	
Styrene	**86.0**	ug/L	5.0	1.6	5		12/24/19 20:03	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 20:03	127-18-4	
Toluene	**122**	ug/L	5.0	1.6	5		12/24/19 20:03	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/24/19 20:03	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/24/19 20:03	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/24/19 20:03	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 20:03	75-01-4	
Xylene (Total)	**258**	ug/L	15.0	6.8	5		12/24/19 20:03	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 20:03	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 20:03	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340799

Sample: CO56-PZP001 **Lab ID: 30340799004** Collected: 12/13/19 09:40 Received: 12/13/19 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	1.4	5		12/24/19 20:03	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 20:03	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/24/19 20:03	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		5		12/24/19 20:03	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		5		12/24/19 20:03	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		5		12/24/19 20:03	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		5		12/24/19 20:03	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340799

Sample: CO55-PZM000 **Lab ID: 30340799005** Collected: 12/13/19 10:38 Received: 12/13/19 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	0.55	1		12/24/19 15:20	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 15:20	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/24/19 15:20	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 15:20	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 15:20	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 15:20	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/24/19 15:20	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/24/19 15:20	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 15:20	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 15:20	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 15:20	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/24/19 15:20	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 15:20	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/24/19 15:20	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/24/19 15:20	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/24/19 15:20	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/24/19 15:20	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/24/19 15:20	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 15:20	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 15:20	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/24/19 15:20	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/24/19 15:20	75-25-2	
Bromomethane	**1.2**	ug/L	1.0	0.73	1		12/24/19 15:20	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 15:20	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 15:20	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/24/19 15:20	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 15:20	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 15:20	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 15:20	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/24/19 15:20	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 15:20	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 15:20	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/24/19 15:20	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/24/19 15:20	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 15:20	75-09-2	
Naphthalene	**1.7J**	ug/L	2.0	0.82	1		12/24/19 15:20	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 15:20	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 15:20	127-18-4	
Toluene	**0.32J**	ug/L	1.0	0.32	1		12/24/19 15:20	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 15:20	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/24/19 15:20	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/24/19 15:20	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 15:20	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		12/24/19 15:20	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 15:20	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 15:20	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340799

Sample: CO55-PZM000 **Lab ID: 30340799005** Collected: 12/13/19 10:38 Received: 12/13/19 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	0.28	1		12/24/19 15:20	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 15:20	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/24/19 15:20	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%.	78-122		1		12/24/19 15:20	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		12/24/19 15:20	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		12/24/19 15:20	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		12/24/19 15:20	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340799

Sample: CO59-PZP002 **Lab ID: 30340799006** Collected: 12/13/19 12:10 Received: 12/13/19 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	0.55	1		12/24/19 15:45	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 15:45	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/24/19 15:45	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 15:45	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 15:45	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 15:45	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/24/19 15:45	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/24/19 15:45	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 15:45	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 15:45	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 15:45	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/24/19 15:45	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 15:45	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/24/19 15:45	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/24/19 15:45	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/24/19 15:45	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/24/19 15:45	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/24/19 15:45	107-13-1	
Benzene	**7.4**	ug/L	1.0	0.34	1		12/24/19 15:45	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 15:45	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/24/19 15:45	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/24/19 15:45	75-25-2	
Bromomethane	**2.2**	ug/L	1.0	0.73	1		12/24/19 15:45	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 15:45	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 15:45	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/24/19 15:45	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 15:45	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 15:45	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 15:45	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/24/19 15:45	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 15:45	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 15:45	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/24/19 15:45	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/24/19 15:45	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 15:45	75-09-2	
Naphthalene	**26.1**	ug/L	2.0	0.82	1		12/24/19 15:45	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 15:45	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 15:45	127-18-4	
Toluene	**2.8**	ug/L	1.0	0.32	1		12/24/19 15:45	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 15:45	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/24/19 15:45	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/24/19 15:45	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 15:45	75-01-4	
Xylene (Total)	**5.2**	ug/L	3.0	1.4	1		12/24/19 15:45	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 15:45	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 15:45	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340799

Sample: CO59-PZP002 **Lab ID: 30340799006** Collected: 12/13/19 12:10 Received: 12/13/19 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	0.28	1		12/24/19 15:45	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 15:45	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/24/19 15:45	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		12/24/19 15:45	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		12/24/19 15:45	17060-07-0	
Toluene-d8 (S)	92	%.	80-120		1		12/24/19 15:45	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		1		12/24/19 15:45	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340799

Sample: CO57-PZP002 **Lab ID: 30340799007** Collected: 12/13/19 12:45 Received: 12/13/19 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	0.55	1		12/24/19 16:11	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 16:11	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/24/19 16:11	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 16:11	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 16:11	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 16:11	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/24/19 16:11	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/24/19 16:11	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 16:11	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 16:11	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 16:11	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/24/19 16:11	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 16:11	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/24/19 16:11	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/24/19 16:11	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/24/19 16:11	108-10-1	
Acetone	**6.0J**	ug/L	10.0	5.6	1		12/24/19 16:11	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/24/19 16:11	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 16:11	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 16:11	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/24/19 16:11	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/24/19 16:11	75-25-2	
Bromomethane	**2.3**	ug/L	1.0	0.73	1		12/24/19 16:11	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 16:11	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 16:11	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/24/19 16:11	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 16:11	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 16:11	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 16:11	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/24/19 16:11	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 16:11	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 16:11	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/24/19 16:11	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/24/19 16:11	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 16:11	75-09-2	
Naphthalene	**1.2J**	ug/L	2.0	0.82	1		12/24/19 16:11	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 16:11	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 16:11	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 16:11	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 16:11	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/24/19 16:11	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/24/19 16:11	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 16:11	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		12/24/19 16:11	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 16:11	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 16:11	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340799

Sample: CO57-PZP002 **Lab ID: 30340799007** Collected: 12/13/19 12:45 Received: 12/13/19 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	0.28	1		12/24/19 16:11	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 16:11	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/24/19 16:11	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		1		12/24/19 16:11	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		12/24/19 16:11	17060-07-0	
Toluene-d8 (S)	91	%.	80-120		1		12/24/19 16:11	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		1		12/24/19 16:11	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.: 30340799

Sample: CO60-PZP001 **Lab ID: 30340799008** Collected: 12/13/19 13:30 Received: 12/13/19 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	0.55	1		12/24/19 17:54	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 17:54	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/24/19 17:54	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 17:54	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 17:54	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 17:54	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/24/19 17:54	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/24/19 17:54	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 17:54	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 17:54	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 17:54	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/24/19 17:54	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 17:54	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/24/19 17:54	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/24/19 17:54	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/24/19 17:54	108-10-1	
Acetone	**10.9**	ug/L	10.0	5.6	1		12/24/19 17:54	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/24/19 17:54	107-13-1	
Benzene	**254**	ug/L	1.0	0.34	1		12/24/19 17:54	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 17:54	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/24/19 17:54	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/24/19 17:54	75-25-2	
Bromomethane	**1.6**	ug/L	1.0	0.73	1		12/24/19 17:54	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 17:54	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 17:54	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/24/19 17:54	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 17:54	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 17:54	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 17:54	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/24/19 17:54	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 17:54	74-95-3	
Ethylbenzene	**8.0**	ug/L	1.0	0.40	1		12/24/19 17:54	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/24/19 17:54	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/24/19 17:54	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 17:54	75-09-2	
Naphthalene	**1590**	ug/L	40.0	16.4	20		12/24/19 16:24	91-20-3	
Styrene	**33.9**	ug/L	1.0	0.33	1		12/24/19 17:54	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 17:54	127-18-4	
Toluene	**20.8**	ug/L	1.0	0.32	1		12/24/19 17:54	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 17:54	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/24/19 17:54	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/24/19 17:54	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 17:54	75-01-4	
Xylene (Total)	**172**	ug/L	3.0	1.4	1		12/24/19 17:54	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 17:54	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 17:54	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.: 30340799

Sample: CO60-PZP001 **Lab ID: 30340799008** Collected: 12/13/19 13:30 Received: 12/13/19 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	0.28	1		12/24/19 17:54	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 17:54	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/24/19 17:54	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		1		12/24/19 17:54	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		1		12/24/19 17:54	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		12/24/19 17:54	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		12/24/19 17:54	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340799

Sample: CO58-PZM001 **Lab ID: 30340799009** Collected: 12/13/19 14:30 Received: 12/13/19 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	0.55	1		12/24/19 17:28	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 17:28	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/24/19 17:28	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 17:28	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 17:28	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 17:28	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/24/19 17:28	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/24/19 17:28	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 17:28	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 17:28	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 17:28	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/24/19 17:28	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 17:28	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/24/19 17:28	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/24/19 17:28	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/24/19 17:28	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/24/19 17:28	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/24/19 17:28	107-13-1	
Benzene	**224**	ug/L	1.0	0.34	1		12/24/19 17:28	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 17:28	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/24/19 17:28	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/24/19 17:28	75-25-2	
Bromomethane	**1.7**	ug/L	1.0	0.73	1		12/24/19 17:28	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 17:28	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 17:28	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/24/19 17:28	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 17:28	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 17:28	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 17:28	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/24/19 17:28	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 17:28	74-95-3	
Ethylbenzene	**10.9**	ug/L	1.0	0.40	1		12/24/19 17:28	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/24/19 17:28	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/24/19 17:28	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 17:28	75-09-2	
Naphthalene	**1250**	ug/L	40.0	16.4	20		12/24/19 15:58	91-20-3	
Styrene	**23.0**	ug/L	1.0	0.33	1		12/24/19 17:28	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 17:28	127-18-4	
Toluene	**92.5**	ug/L	1.0	0.32	1		12/24/19 17:28	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 17:28	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/24/19 17:28	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/24/19 17:28	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 17:28	75-01-4	
Xylene (Total)	**180**	ug/L	3.0	1.4	1		12/24/19 17:28	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 17:28	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 17:28	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340799

Sample: CO58-PZM001 **Lab ID: 30340799009** Collected: 12/13/19 14:30 Received: 12/13/19 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	0.28	1		12/24/19 17:28	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 17:28	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/24/19 17:28	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%.	78-122		1		12/24/19 17:28	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		12/24/19 17:28	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		12/24/19 17:28	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		12/24/19 17:28	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30340799

QC Batch: 376984 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30340799001, 30340799002, 30340799003, 30340799004, 30340799005, 30340799006, 30340799007, 30340799008, 30340799009

METHOD BLANK: 1828772 Matrix: Water
Associated Lab Samples: 30340799001, 30340799002, 30340799003, 30340799004, 30340799005, 30340799006, 30340799007, 30340799008, 30340799009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	12/24/19 13:11	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	12/24/19 13:11	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	12/24/19 13:11	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	12/24/19 13:11	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	12/24/19 13:11	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	12/24/19 13:11	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	12/24/19 13:11	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	12/24/19 13:11	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	12/24/19 13:11	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	12/24/19 13:11	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	12/24/19 13:11	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	12/24/19 13:11	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	12/24/19 13:11	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	12/24/19 13:11	
2-Hexanone	ug/L	10.0 U	10.0	0.58	12/24/19 13:11	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	12/24/19 13:11	
Acetone	ug/L	6.2J	10.0	5.6	12/24/19 13:11	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	12/24/19 13:11	
Benzene	ug/L	1.0 U	1.0	0.34	12/24/19 13:11	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	12/24/19 13:11	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	12/24/19 13:11	
Bromoform	ug/L	1.0 U	1.0	0.56	12/24/19 13:11	
Bromomethane	ug/L	1.0 U	1.0	0.73	12/24/19 13:11	CL
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/24/19 13:11	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	12/24/19 13:11	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	12/24/19 13:11	
Chloroethane	ug/L	1.0 U	1.0	0.64	12/24/19 13:11	
Chloroform	ug/L	1.0 U	1.0	0.39	12/24/19 13:11	
Chloromethane	ug/L	1.0 U	1.0	0.40	12/24/19 13:11	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	12/24/19 13:11	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	12/24/19 13:11	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	12/24/19 13:11	
Dibromomethane	ug/L	1.0 U	1.0	0.34	12/24/19 13:11	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	12/24/19 13:11	
Iodomethane	ug/L	50.0 U	50.0	0.52	12/24/19 13:11	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	12/24/19 13:11	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	12/24/19 13:11	
Naphthalene	ug/L	2.0 U	2.0	0.82	12/24/19 13:11	
Styrene	ug/L	1.0 U	1.0	0.33	12/24/19 13:11	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	12/24/19 13:11	

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.: 30340799

METHOD BLANK: 1828772 Matrix: Water

Associated Lab Samples: 30340799001, 30340799002, 30340799003, 30340799004, 30340799005, 30340799006, 30340799007, 30340799008, 30340799009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.32	12/24/19 13:11	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	12/24/19 13:11	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	12/24/19 13:11	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	12/24/19 13:11	
Trichloroethene	ug/L	1.0 U	1.0	0.29	12/24/19 13:11	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	12/24/19 13:11	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	12/24/19 13:11	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	12/24/19 13:11	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	12/24/19 13:11	
1,2-Dichloroethane-d4 (S)	%.	102	80-120		12/24/19 13:11	
4-Bromofluorobenzene (S)	%.	98	78-122		12/24/19 13:11	
Dibromofluoromethane (S)	%.	99	80-120		12/24/19 13:11	
Toluene-d8 (S)	%.	98	80-120		12/24/19 13:11	

LABORATORY CONTROL SAMPLE: 1828773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.3	101	70-130	
1,1,1-Trichloroethane	ug/L	20	20.2	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	70-130	
1,1,2-Trichloroethane	ug/L	20	19.7	99	70-130	
1,1-Dichloroethane	ug/L	20	20.1	101	68-121	
1,1-Dichloroethene	ug/L	20	19.0	95	63-129	
1,2,3-Trichloropropane	ug/L	20	19.3	96	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	15.2	76	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	19.7	99	70-130	
1,2-Dichlorobenzene	ug/L	20	20.9	105	70-130	
1,2-Dichloroethane	ug/L	20	19.3	96	67-117	
1,2-Dichloropropane	ug/L	20	21.8	109	69-121	
1,4-Dichlorobenzene	ug/L	20	20.6	103	70-130	
2-Butanone (MEK)	ug/L	20	21.0	105	59-128	
2-Hexanone	ug/L	20	22.6	113	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	22.0	110	63-126	
Acetone	ug/L	20	29.4	147	37-150	
Acrylonitrile	ug/L	20	23.7	118	62-128	
Benzene	ug/L	20	18.9	95	70-130	
Bromochloromethane	ug/L	20	18.8	94	59-137	
Bromodichloromethane	ug/L	20	17.9	90	70-130	
Bromoform	ug/L	20	14.7	74	65-130	
Bromomethane	ug/L	20	11.9	60	45-148	CL
Carbon disulfide	ug/L	20	16.1	81	55-123	
Carbon tetrachloride	ug/L	20	18.7	94	69-126	
Chlorobenzene	ug/L	20	21.1	105	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.: 30340799

LABORATORY CONTROL SAMPLE: 1828773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	17.1	86	68-146	
Chloroform	ug/L	20	19.3	97	69-116	
Chloromethane	ug/L	20	19.6	98	56-129	
cis-1,2-Dichloroethene	ug/L	20	20.5	102	66-118	
cis-1,3-Dichloropropene	ug/L	20	17.3	87	70-130	
Dibromochloromethane	ug/L	20	16.8	84	70-130	
Dibromomethane	ug/L	20	17.6	88	70-130	
Ethylbenzene	ug/L	20	21.3	107	70-130	
Iodomethane	ug/L	20	20.9J	104	10-175	
Methyl-tert-butyl ether	ug/L	20	18.3	92	70-130	
Methylene Chloride	ug/L	20	23.5	118	65-124	
Naphthalene	ug/L	20	19.9	100	69-135	
Styrene	ug/L	20	21.1	105	70-130	
Tetrachloroethene	ug/L	20	20.2	101	70-130	
Toluene	ug/L	20	20.1	101	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.2	101	64-123	
trans-1,3-Dichloropropene	ug/L	20	17.6	88	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	17.5	88	37-119	
Trichloroethene	ug/L	20	21.0	105	70-130	
Trichlorofluoromethane	ug/L	20	20.3	101	64-163	
Vinyl acetate	ug/L	20	20.1	100	45-129	
Vinyl chloride	ug/L	20	19.3	96	70-130	
Xylene (Total)	ug/L	60	61.1	102	70-130	
1,2-Dichloroethane-d4 (S)	%.			95	80-120	
4-Bromofluorobenzene (S)	%.			97	78-122	
Dibromofluoromethane (S)	%.			100	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1828774 1828775

Parameter	Units	30341986003 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	15.5	16.9	78	84	52-123	8	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.8	17.5	84	87	67-127	4	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.2	18.0	81	90	55-118	11	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	15.4	16.9	77	84	60-117	9	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	16.8	18.3	84	92	68-118	9	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	13.0	13.5	65	68	62-126	4	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	15.2	17.2	76	86	56-129	12	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	10.7	11.9	54	59	46-130	10	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	14.7	16.6	74	83	69-124	12	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	15.5	17.8	78	89	66-116	13	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	15.8	16.3	79	82	67-117	3	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	17.0	18.3	85	91	61-128	7	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.: 30340799

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1828774 1828775

Parameter	Units	30341986003 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	15.4	17.2	77	86	68-116	11	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	18.9	22.0	95	110	63-175	15	30	
2-Hexanone	ug/L	1.3J	20	20	19.2	21.5	90	101	65-151	11	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	19.3	20.5	97	103	66-149	6	30	
Acetone	ug/L	5.8J	20	20	24.2	21.4	92	78	10-175	12	30	
Acrylonitrile	ug/L	4.0 U	20	20	17.3	21.4	86	107	42-165	21	30	
Benzene	ug/L	49.8	20	20	85.7	70.9	180	106	67-119	19	30	C8,MH
Bromochloromethane	ug/L	1.0 U	20	20	16.1	16.8	80	84	64-124	5	30	
Bromodichloromethane	ug/L	1.0 U	20	20	13.9	14.2	69	71	67-126	3	30	
Bromoform	ug/L	1.0 U	20	20	10.3	10.7	51	53	43-114	4	30	
Bromomethane	ug/L	1.0 U	20	20	3.6	3.4	18	17	10-164	7	30	CL
Carbon disulfide	ug/L	1.0 U	20	20	9.2	9.9	46	49	37-135	6	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	15.1	16.1	75	81	60-137	7	30	
Chlorobenzene	ug/L	1.0 U	20	20	17.0	18.1	85	90	68-119	6	30	
Chloroethane	ug/L	1.0 U	20	20	12.2	12.3	61	62	54-169	1	30	
Chloroform	ug/L	1.0 U	20	20	15.5	17.0	77	85	69-113	9	30	
Chloromethane	ug/L	1.0 U	20	20	14.8	15.0	74	75	43-159	1	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.9	17.3	84	87	65-121	3	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	13.0	13.7	65	68	61-120	5	30	
Dibromochloromethane	ug/L	1.0 U	20	20	11.8	12.9	59	65	56-121	9	30	
Dibromomethane	ug/L	1.0 U	20	20	14.4	15.5	72	78	56-133	8	30	
Ethylbenzene	ug/L	1.0 U	20	20	16.6	18.4	83	92	69-127	10	30	
Iodomethane	ug/L	50.0 U	20	20	3.9J	7.3J	20	36	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	15.0	13.9	75	69	70-130	8	30	ML
Methylene Chloride	ug/L	1.0 U	20	20	17.8	15.8	89	79	49-144	12	30	
Naphthalene	ug/L	2.0 U	20	20	17.6	18.1	88	91	60-136	3	30	
Styrene	ug/L	1.0 U	20	20	16.2	18.3	81	92	65-120	12	30	
Tetrachloroethene	ug/L	1.0 U	20	20	16.1	17.7	81	88	64-123	9	30	
Toluene	ug/L	1.0 U	20	20	18.7	18.3	94	91	70-130	2	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.0	14.6	85	73	66-119	15	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	12.9	14.5	65	73	52-117	11	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	7.9	8.5	40	43	13-100	7	30	
Trichloroethene	ug/L	1.0 U	20	20	16.9	18.3	84	91	63-125	8	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	19.0	17.6	95	88	43-186	8	30	
Vinyl acetate	ug/L	1.0 U	20	20	15.9	15.7	79	79	35-150	1	30	
Vinyl chloride	ug/L	1.0 U	20	20	16.0	15.8	80	79	60-133	2	30	
Xylene (Total)	ug/L	3.0 U	60	60	50.2	53.3	84	89	69-128	6	30	
1,2-Dichloroethane-d4 (S)	%.						103	98	80-120			
4-Bromofluorobenzene (S)	%.						96	99	78-122			
Dibromofluoromethane (S)	%.						104	101	80-120			
Toluene-d8 (S)	%.						95	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: COA IM GW Sampling
Pace Project No.: 30340799

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.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
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.: 30340799

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30340799001	**Trip Blank**	EPA 8260B	376984		
30340799002	**CO24-PZM007**	EPA 8260B	376984		
30340799003	**CO23-PZM008**	EPA 8260B	376984		
30340799004	**CO56-PZP001**	EPA 8260B	376984		
30340799005	**CO55-PZM000**	EPA 8260B	376984		
30340799006	**CO59-PZP002**	EPA 8260B	376984		
30340799007	**CO57-PZP002**	EPA 8260B	376984		
30340799008	**CO60-PZP001**	EPA 8260B	376984		
30340799009	**CO58-PZM001**	EPA 8260B	376984		

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

Page: 1 of 1

on A red 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
To:	jcalenda@enviroanalyticsgroup.com	Purchase Order No.:	EAG-SPT-6989	Pace Quote Reference:	
:	314-620-3056 Fax:	Project Name:	COA IM GW Sampling	Pace Project Manager:	Samantha Bayura
sted Due Date/TAT:	5 Day	Project Number:	190275M-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)

WO# : 30340799

30340799

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	Resi	Pace Project No./ Lab I.D.
Trip Blank	WT	G			12-13-19	—		2				2						X		CC1
CO24-PZM007	WT	G				825		3				3						X		CC2
CO23-PZM008	WT	G				910		3				3						X		CC3
CO56-PZP001	WT	G				940		3				3						X		CC4
CO55-PZM000	WT	G				1038		3				3						X		CC5
CO59-PZP002	WT	G				1210		3				3						X		CC6
CO57-PZP002	WT	G				1245		3				3						X		CC7
CO60-PZP001	WT	G				1330		3				3						X		CC8
~~CO26-PZM007~~	~~WT~~	~~G~~						~~3~~				~~3~~						~~X~~		
CO58-PZM001	WT	G				1430		3				3						X		CC9

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]	12-13-19	1540	[signature] / Pace	12/13/19	1619				
	David L Hillegan / Pace	12/13/19	1955	RDS TACE	12-13-19	2000		Y		
	RDS TACE	12-13-19	2300	[signature]	12-13-19	23:00	2.3	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perm

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 12-13-19

*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 # 30340799

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label: NA
LIMS Login: M

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used: 1C Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp: 2.3 °C Correction Factor: 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: NM 12-14-19
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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: (VOA) coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.
All containers meet method preservation requirements.	✓			Initial when completed: NM Date/time of preservation:
				Lot # of added preservative:
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad Samples Screened < 0.5 mrem/hr			✓	Initial when completed: NM 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 30, 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.: 30340800

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on December 13, 2019. 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.: 30340800

Pace Analytical Services Pennsylvania
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
Florida: Cert E871149 SEKS WET
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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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: COA IM GW Sampling
Pace Project No.: 30340800

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30340800001	**CO41-PZM001**	Water	12/13/19 11:57	12/13/19 23:00
30340800002	**CO41-PZM036**	Water	12/13/19 12:40	12/13/19 23:00
30340800003	**CO36-PZM008**	Water	12/13/19 13:41	12/13/19 23:00
30340800004	**CO36-PZM043**	Water	12/13/19 14:28	12/13/19 23:00
30340800005	**CO38-PZM006**	Water	12/13/19 15:15	12/13/19 23:00
30340800006	**CO38-PZM043**	Water	12/13/19 15:53	12/13/19 23:00
30340800007	**Trip Blank**	Water	12/13/19 00:01	12/13/19 23:00

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30340800

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30340800001	**CO41-PZM001**	EPA 8260B	LEL	53	PASI-PA
30340800002	**CO41-PZM036**	EPA 8260B	LEL	53	PASI-PA
30340800003	**CO36-PZM008**	EPA 8260B	LEL	53	PASI-PA
30340800004	**CO36-PZM043**	EPA 8260B	LEL	53	PASI-PA
30340800005	**CO38-PZM006**	EPA 8260B	LEL	53	PASI-PA
30340800006	**CO38-PZM043**	EPA 8260B	LEL	53	PASI-PA
30340800007	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340800

Sample: CO41-PZM001 **Lab ID: 30340800001** Collected: 12/13/19 11:57 Received: 12/13/19 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	0.55	1		12/27/19 17:39	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 17:39	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/27/19 17:39	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 17:39	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 17:39	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 17:39	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/27/19 17:39	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/27/19 17:39	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 17:39	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 17:39	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 17:39	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/27/19 17:39	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 17:39	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/27/19 17:39	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/27/19 17:39	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/27/19 17:39	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/27/19 17:39	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/27/19 17:39	107-13-1	
Benzene	**6500**	ug/L	50.0	16.9	50		12/27/19 19:34	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 17:39	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/27/19 17:39	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/27/19 17:39	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		12/27/19 17:39	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 17:39	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 17:39	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/27/19 17:39	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 17:39	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 17:39	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/19 17:39	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/27/19 17:39	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/19 17:39	74-95-3	
Ethylbenzene	**257**	ug/L	1.0	0.40	1		12/27/19 17:39	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/27/19 17:39	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/27/19 17:39	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 17:39	75-09-2	
Naphthalene	**133**	ug/L	2.0	0.82	1		12/27/19 17:39	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 17:39	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 17:39	127-18-4	
Toluene	**3930**	ug/L	50.0	15.8	50		12/27/19 19:34	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 17:39	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/27/19 17:39	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/27/19 17:39	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 17:39	75-01-4	
Xylene (Total)	**1890**	ug/L	150	67.5	50		12/27/19 19:34	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 17:39	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 17:39	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340800

Sample: CO41-PZM001 **Lab ID: 30340800001** Collected: 12/13/19 11:57 Received: 12/13/19 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	0.28	1		12/27/19 17:39	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 17:39	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/27/19 17:39	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	78-122		1		12/27/19 17:39	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%.	80-120		1		12/27/19 17:39	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		1		12/27/19 17:39	2037-26-5	
Dibromofluoromethane (S)	85	%.	80-120		1		12/27/19 17:39	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340800

Sample: CO41-PZM036 **Lab ID: 30340800002** Collected: 12/13/19 12:40 Received: 12/13/19 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	2.7	5		12/27/19 20:37	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 20:37	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 20:37	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 20:37	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 20:37	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 20:37	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/27/19 20:37	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/27/19 20:37	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/27/19 20:37	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 20:37	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 20:37	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 20:37	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 20:37	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/27/19 20:37	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/27/19 20:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/27/19 20:37	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		12/27/19 20:37	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/27/19 20:37	107-13-1	
Benzene	**169000**	ug/L	1000	338	1000		12/27/19 22:31	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 20:37	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 20:37	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/27/19 20:37	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		12/27/19 20:37	74-83-9	B
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 20:37	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/27/19 20:37	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/27/19 20:37	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/27/19 20:37	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 20:37	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 20:37	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/27/19 20:37	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 20:37	74-95-3	
Ethylbenzene	**898**	ug/L	5.0	2.0	5		12/27/19 20:37	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/27/19 20:37	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 20:37	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/27/19 20:37	75-09-2	
Naphthalene	**423**	ug/L	10.0	4.1	5		12/27/19 20:37	91-20-3	
Styrene	**462**	ug/L	5.0	1.6	5		12/27/19 20:37	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 20:37	127-18-4	
Toluene	**65700**	ug/L	1000	317	1000		12/27/19 22:31	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/27/19 20:37	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/27/19 20:37	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/27/19 20:37	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 20:37	75-01-4	
Xylene (Total)	**15600**	ug/L	3000	1350	1000		12/27/19 22:31	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 20:37	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 20:37	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340800

Sample: CO41-PZM036 **Lab ID: 30340800002** Collected: 12/13/19 12:40 Received: 12/13/19 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	1.4	5		12/27/19 20:37	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 20:37	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/27/19 20:37	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		5		12/27/19 20:37	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	80-120		5		12/27/19 20:37	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		12/27/19 20:37	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		5		12/27/19 20:37	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340800

Sample: CO36-PZM008 **Lab ID: 30340800003** Collected: 12/13/19 13:41 Received: 12/13/19 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	2.7	5		12/27/19 18:56	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 18:56	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 18:56	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 18:56	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 18:56	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 18:56	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/27/19 18:56	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/27/19 18:56	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/27/19 18:56	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 18:56	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 18:56	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 18:56	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 18:56	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/27/19 18:56	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/27/19 18:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/27/19 18:56	108-10-1	
Acetone	**42.9J**	ug/L	50.0	28.0	5		12/27/19 18:56	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/27/19 18:56	107-13-1	
Benzene	**6780**	ug/L	200	67.6	200		12/27/19 20:50	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 18:56	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 18:56	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/27/19 18:56	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		12/27/19 18:56	74-83-9	B
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 18:56	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/27/19 18:56	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/27/19 18:56	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/27/19 18:56	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 18:56	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 18:56	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/27/19 18:56	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 18:56	74-95-3	
Ethylbenzene	**30.4**	ug/L	5.0	2.0	5		12/27/19 18:56	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/27/19 18:56	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 18:56	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/27/19 18:56	75-09-2	
Naphthalene	**424**	ug/L	10.0	4.1	5		12/27/19 18:56	91-20-3	
Styrene	**9.1**	ug/L	5.0	1.6	5		12/27/19 18:56	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 18:56	127-18-4	
Toluene	**1700**	ug/L	5.0	1.6	5		12/27/19 18:56	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/27/19 18:56	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/27/19 18:56	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/27/19 18:56	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 18:56	75-01-4	
Xylene (Total)	**816**	ug/L	15.0	6.8	5		12/27/19 18:56	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 18:56	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 18:56	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340800

Sample: CO36-PZM008 **Lab ID: 30340800003** Collected: 12/13/19 13:41 Received: 12/13/19 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	1.4	5		12/27/19 18:56	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 18:56	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/27/19 18:56	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		5		12/27/19 18:56	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%.	80-120		5		12/27/19 18:56	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		12/27/19 18:56	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		12/27/19 18:56	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340800

Sample: CO36-PZM043 **Lab ID: 30340800004** Collected: 12/13/19 14:28 Received: 12/13/19 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	2.7	5		12/27/19 19:21	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 19:21	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 19:21	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 19:21	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 19:21	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 19:21	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/27/19 19:21	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/27/19 19:21	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/27/19 19:21	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 19:21	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 19:21	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 19:21	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 19:21	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/27/19 19:21	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/27/19 19:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/27/19 19:21	108-10-1	
Acetone	**50.5**	ug/L	50.0	28.0	5		12/27/19 19:21	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/27/19 19:21	107-13-1	
Benzene	**16400**	ug/L	200	67.6	200		12/27/19 21:15	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 19:21	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 19:21	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/27/19 19:21	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		12/27/19 19:21	74-83-9	B
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 19:21	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/27/19 19:21	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/27/19 19:21	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/27/19 19:21	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 19:21	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 19:21	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/27/19 19:21	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 19:21	74-95-3	
Ethylbenzene	**80.7**	ug/L	5.0	2.0	5		12/27/19 19:21	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/27/19 19:21	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 19:21	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/27/19 19:21	75-09-2	
Naphthalene	**750**	ug/L	10.0	4.1	5		12/27/19 19:21	91-20-3	
Styrene	**19.7**	ug/L	5.0	1.6	5		12/27/19 19:21	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 19:21	127-18-4	
Toluene	**3160**	ug/L	200	63.4	200		12/27/19 21:15	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/27/19 19:21	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/27/19 19:21	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/27/19 19:21	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 19:21	75-01-4	
Xylene (Total)	**1190**	ug/L	15.0	6.8	5		12/27/19 19:21	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 19:21	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 19:21	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340800

Sample: CO36-PZM043 **Lab ID: 30340800004** Collected: 12/13/19 14:28 Received: 12/13/19 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	1.4	5		12/27/19 19:21	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 19:21	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/27/19 19:21	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		12/27/19 19:21	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%.	80-120		5		12/27/19 19:21	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		12/27/19 19:21	2037-26-5	
Dibromofluoromethane (S)	90	%.	80-120		5		12/27/19 19:21	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340800

Sample: CO38-PZM006 **Lab ID: 30340800005** Collected: 12/13/19 15:15 Received: 12/13/19 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	2.7	5		12/27/19 16:23	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 16:23	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 16:23	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 16:23	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 16:23	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 16:23	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/27/19 16:23	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/27/19 16:23	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/27/19 16:23	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 16:23	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 16:23	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 16:23	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 16:23	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/27/19 16:23	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/27/19 16:23	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/27/19 16:23	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		12/27/19 16:23	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/27/19 16:23	107-13-1	
Benzene	**4210**	ug/L	20.0	6.8	20		12/27/19 22:57	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 16:23	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 16:23	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/27/19 16:23	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		12/27/19 16:23	74-83-9	B
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 16:23	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/27/19 16:23	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/27/19 16:23	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/27/19 16:23	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 16:23	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 16:23	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/27/19 16:23	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 16:23	74-95-3	
Ethylbenzene	**74.3**	ug/L	5.0	2.0	5		12/27/19 16:23	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/27/19 16:23	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 16:23	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/27/19 16:23	75-09-2	
Naphthalene	**1740**	ug/L	10.0	4.1	5		12/27/19 16:23	91-20-3	
Styrene	**51.2**	ug/L	5.0	1.6	5		12/27/19 16:23	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 16:23	127-18-4	
Toluene	**1260**	ug/L	5.0	1.6	5		12/27/19 16:23	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/27/19 16:23	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/27/19 16:23	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/27/19 16:23	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 16:23	75-01-4	
Xylene (Total)	**561**	ug/L	15.0	6.8	5		12/27/19 16:23	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 16:23	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 16:23	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340800

Sample: CO38-PZM006 **Lab ID: 30340800005** Collected: 12/13/19 15:15 Received: 12/13/19 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	1.4	5		12/27/19 16:23	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 16:23	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/27/19 16:23	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		12/27/19 16:23	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%.	80-120		5		12/27/19 16:23	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		5		12/27/19 16:23	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		12/27/19 16:23	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340800

Sample: CO38-PZM043 **Lab ID: 30340800006** Collected: 12/13/19 15:53 Received: 12/13/19 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	0.55	1		12/27/19 15:57	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 15:57	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/27/19 15:57	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 15:57	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 15:57	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 15:57	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/27/19 15:57	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/27/19 15:57	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 15:57	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 15:57	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 15:57	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/27/19 15:57	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 15:57	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/27/19 15:57	78-93-3	R1
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/27/19 15:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/27/19 15:57	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/27/19 15:57	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/27/19 15:57	107-13-1	
Benzene	**0.54J**	ug/L	1.0	0.34	1		12/27/19 15:57	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 15:57	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/27/19 15:57	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/27/19 15:57	75-25-2	
Bromomethane	**0.88J**	ug/L	1.0	0.73	1		12/27/19 15:57	74-83-9	B,ML
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 15:57	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 15:57	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/27/19 15:57	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 15:57	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 15:57	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/19 15:57	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/27/19 15:57	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/19 15:57	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/27/19 15:57	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/27/19 15:57	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/27/19 15:57	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 15:57	75-09-2	
Naphthalene	**30.5**	ug/L	2.0	0.82	1		12/27/19 15:57	91-20-3	C8,ML
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 15:57	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 15:57	127-18-4	
Toluene	**0.33J**	ug/L	1.0	0.32	1		12/27/19 15:57	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 15:57	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/27/19 15:57	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/27/19 15:57	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 15:57	75-01-4	
Xylene (Total)	**1.4J**	ug/L	3.0	1.4	1		12/27/19 15:57	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 15:57	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 15:57	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340800

Sample: CO38-PZM043 **Lab ID: 30340800006** Collected: 12/13/19 15:53 Received: 12/13/19 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	0.28	1		12/27/19 15:57	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 15:57	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/27/19 15:57	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		12/27/19 15:57	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		1		12/27/19 15:57	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		1		12/27/19 15:57	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		12/27/19 15:57	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340800

Sample: Trip Blank **Lab ID: 30340800007** Collected: 12/13/19 00:01 Received: 12/13/19 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	0.55	1		12/27/19 14:14	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 14:14	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/27/19 14:14	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 14:14	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 14:14	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 14:14	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/27/19 14:14	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/27/19 14:14	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 14:14	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 14:14	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 14:14	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/27/19 14:14	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 14:14	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/27/19 14:14	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/27/19 14:14	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/27/19 14:14	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/27/19 14:14	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/27/19 14:14	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		12/27/19 14:14	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 14:14	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/27/19 14:14	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/27/19 14:14	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		12/27/19 14:14	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 14:14	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 14:14	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/27/19 14:14	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 14:14	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 14:14	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/19 14:14	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/27/19 14:14	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/19 14:14	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/27/19 14:14	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/27/19 14:14	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/27/19 14:14	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 14:14	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/27/19 14:14	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 14:14	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 14:14	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 14:14	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 14:14	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/27/19 14:14	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/27/19 14:14	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 14:14	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		12/27/19 14:14	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 14:14	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 14:14	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30340800

Sample: Trip Blank **Lab ID: 30340800007** Collected: 12/13/19 00:01 Received: 12/13/19 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	0.28	1		12/27/19 14:14	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 14:14	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/27/19 14:14	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		12/27/19 14:14	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		12/27/19 14:14	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		1		12/27/19 14:14	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120		1		12/27/19 14:14	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30340800

QC Batch: 377309 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30340800001, 30340800002, 30340800003, 30340800004, 30340800005, 30340800006, 30340800007

METHOD BLANK: 1830007 Matrix: Water
Associated Lab Samples: 30340800001, 30340800002, 30340800003, 30340800004, 30340800005, 30340800006, 30340800007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	12/27/19 12:57	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	12/27/19 12:57	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	12/27/19 12:57	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	12/27/19 12:57	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	12/27/19 12:57	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	12/27/19 12:57	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	12/27/19 12:57	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	12/27/19 12:57	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	12/27/19 12:57	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	12/27/19 12:57	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	12/27/19 12:57	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	12/27/19 12:57	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	12/27/19 12:57	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	12/27/19 12:57	
2-Hexanone	ug/L	10.0 U	10.0	0.58	12/27/19 12:57	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	12/27/19 12:57	
Acetone	ug/L	10.0 U	10.0	5.6	12/27/19 12:57	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	12/27/19 12:57	
Benzene	ug/L	1.0 U	1.0	0.34	12/27/19 12:57	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	12/27/19 12:57	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	12/27/19 12:57	
Bromoform	ug/L	1.0 U	1.0	0.56	12/27/19 12:57	
Bromomethane	ug/L	1.2	1.0	0.73	12/27/19 12:57	B
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/27/19 12:57	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	12/27/19 12:57	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	12/27/19 12:57	
Chloroethane	ug/L	1.0 U	1.0	0.64	12/27/19 12:57	
Chloroform	ug/L	1.0 U	1.0	0.39	12/27/19 12:57	
Chloromethane	ug/L	1.0 U	1.0	0.40	12/27/19 12:57	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	12/27/19 12:57	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	12/27/19 12:57	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	12/27/19 12:57	
Dibromomethane	ug/L	1.0 U	1.0	0.34	12/27/19 12:57	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	12/27/19 12:57	
Iodomethane	ug/L	50.0 U	50.0	0.52	12/27/19 12:57	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	12/27/19 12:57	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	12/27/19 12:57	
Naphthalene	ug/L	2.0 U	2.0	0.82	12/27/19 12:57	
Styrene	ug/L	1.0 U	1.0	0.33	12/27/19 12:57	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	12/27/19 12:57	
Toluene	ug/L	1.0 U	1.0	0.32	12/27/19 12:57	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30340800

METHOD BLANK: 1830007 Matrix: Water
Associated Lab Samples: 30340800001, 30340800002, 30340800003, 30340800004, 30340800005, 30340800006, 30340800007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	12/27/19 12:57	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	12/27/19 12:57	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	12/27/19 12:57	
Trichloroethene	ug/L	1.0 U	1.0	0.29	12/27/19 12:57	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	12/27/19 12:57	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	12/27/19 12:57	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	12/27/19 12:57	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	12/27/19 12:57	
1,2-Dichloroethane-d4 (S)	%.	101	80-120		12/27/19 12:57	
4-Bromofluorobenzene (S)	%.	101	78-122		12/27/19 12:57	
Dibromofluoromethane (S)	%.	101	80-120		12/27/19 12:57	
Toluene-d8 (S)	%.	92	80-120		12/27/19 12:57	

LABORATORY CONTROL SAMPLE: 1830008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.7	113	70-130	
1,1,1-Trichloroethane	ug/L	20	21.5	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	24.4	122	70-130	
1,1,2-Trichloroethane	ug/L	20	21.6	108	70-130	
1,1-Dichloroethane	ug/L	20	22.2	111	68-121	
1,1-Dichloroethene	ug/L	20	17.1	85	63-129	
1,2,3-Trichloropropane	ug/L	20	22.2	111	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.9	89	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	22.4	112	70-130	
1,2-Dichlorobenzene	ug/L	20	23.3	116	70-130	
1,2-Dichloroethane	ug/L	20	20.8	104	67-117	
1,2-Dichloropropane	ug/L	20	23.6	118	69-121	
1,4-Dichlorobenzene	ug/L	20	23.2	116	70-130	
2-Butanone (MEK)	ug/L	20	18.1	90	59-128	
2-Hexanone	ug/L	20	24.0	120	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	24.8	124	63-126	
Acetone	ug/L	20	26.5	133	37-150	
Acrylonitrile	ug/L	20	20.4	102	62-128	
Benzene	ug/L	20	20.8	104	70-130	
Bromochloromethane	ug/L	20	21.2	106	59-137	
Bromodichloromethane	ug/L	20	20.7	104	70-130	
Bromoform	ug/L	20	16.5	82	65-130	
Bromomethane	ug/L	20	12.7	63	45-148	B
Carbon disulfide	ug/L	20	14.7	74	55-123	
Carbon tetrachloride	ug/L	20	20.6	103	69-126	
Chlorobenzene	ug/L	20	23.9	119	70-130	
Chloroethane	ug/L	20	19.2	96	68-146	
Chloroform	ug/L	20	19.4	97	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30340800

LABORATORY CONTROL SAMPLE: 1830008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	20.4	102	56-129	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	66-118	
cis-1,3-Dichloropropene	ug/L	20	18.7	93	70-130	
Dibromochloromethane	ug/L	20	18.9	94	70-130	
Dibromomethane	ug/L	20	19.6	98	70-130	
Ethylbenzene	ug/L	20	23.7	119	70-130	
Iodomethane	ug/L	20	15.7J	78	10-175	
Methyl-tert-butyl ether	ug/L	20	18.8	94	70-130	
Methylene Chloride	ug/L	20	23.7	118	65-124	
Naphthalene	ug/L	20	22.7	114	69-135	
Styrene	ug/L	20	24.1	121	70-130	
Tetrachloroethene	ug/L	20	22.9	115	70-130	
Toluene	ug/L	20	22.4	112	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.2	111	64-123	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	16.2	81	37-119	
Trichloroethene	ug/L	20	22.8	114	70-130	
Trichlorofluoromethane	ug/L	20	22.3	111	64-163	
Vinyl acetate	ug/L	20	20.5	102	45-129	
Vinyl chloride	ug/L	20	20.3	101	70-130	
Xylene (Total)	ug/L	60	69.0	115	70-130	
1,2-Dichloroethane-d4 (S)	%.			98	80-120	
4-Bromofluorobenzene (S)	%.			97	78-122	
Dibromofluoromethane (S)	%.			103	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1830328 1830329

Parameter	Units	30340800006 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	18.1	18.9	91	94	52-123	4	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	19.6	18.8	98	94	67-127	4	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.6	20.2	93	101	55-118	9	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.2	19.1	96	96	60-117	0	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	19.5	18.9	98	95	68-118	3	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	18.8	17.6	94	88	62-126	6	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	17.9	18.1	89	90	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	12.4	13.2	62	66	46-130	6	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.0	18.0	90	90	69-124	0	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	18.6	19.3	93	97	66-116	4	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	16.7	16.7	84	84	67-117	0	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	20.7	20.4	104	102	61-128	2	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	19.1	19.8	95	99	68-116	4	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	13.9	18.9	69	95	63-175	31	30	R1

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.: 30340800

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1830328 1830329

Parameter	Units	30340800006 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	18.6	95	93	65-151	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	20.8	19.5	104	97	66-149	7	30	
Acetone	ug/L	10.0 U	20	20	19.4	19.3	93	92	10-175	0	30	
Acrylonitrile	ug/L	4.0 U	20	20	21.0	19.8	105	99	42-165	6	30	
Benzene	ug/L	0.54J	20	20	20.7	18.7	101	91	67-119	10	30	
Bromochloromethane	ug/L	1.0 U	20	20	19.9	18.0	100	90	64-124	10	30	
Bromodichloromethane	ug/L	1.0 U	20	20	16.1	15.7	80	79	67-126	2	30	
Bromoform	ug/L	1.0 U	20	20	11.7	12.1	58	60	43-114	3	30	
Bromomethane	ug/L	0.88J	20	20	2.3	3.0	7	11	10-164	26	30	B,ML
Carbon disulfide	ug/L	1.0 U	20	20	15.9	14.9	80	74	37-135	7	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	18.2	17.2	91	86	60-137	5	30	
Chlorobenzene	ug/L	1.0 U	20	20	20.7	20.7	103	104	68-119	0	30	
Chloroethane	ug/L	1.0 U	20	20	25.2	22.7	126	113	54-169	11	30	
Chloroform	ug/L	1.0 U	20	20	17.8	17.0	89	85	69-113	5	30	
Chloromethane	ug/L	1.0 U	20	20	14.0	14.6	70	73	43-159	4	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.8	18.4	99	92	65-121	7	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.5	15.5	82	77	61-120	6	30	
Dibromochloromethane	ug/L	1.0 U	20	20	14.7	13.6	73	68	56-121	7	30	
Dibromomethane	ug/L	1.0 U	20	20	17.6	17.2	88	86	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	20.5	20.0	103	100	69-127	3	30	
Iodomethane	ug/L	50.0 U	20	20	2.5J	8.3J	13	41	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	17.3	16.8	86	84	70-130	3	30	
Methylene Chloride	ug/L	1.0 U	20	20	20.2	18.8	101	94	49-144	7	30	
Naphthalene	ug/L	30.5	20	20	18.6	19.8	-59	-54	60-136	6	30	ML
Styrene	ug/L	1.0 U	20	20	20.3	20.3	101	102	65-120	0	30	
Tetrachloroethene	ug/L	1.0 U	20	20	19.8	19.6	99	98	64-123	1	30	
Toluene	ug/L	0.33J	20	20	20.0	19.8	98	97	70-130	1	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.2	18.6	96	93	66-119	3	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.3	14.8	82	74	52-117	10	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	7.3	7.8	36	39	13-100	7	30	
Trichloroethene	ug/L	1.0 U	20	20	20.6	19.9	103	99	63-125	4	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	23.5	23.2	117	116	43-186	1	30	
Vinyl acetate	ug/L	1.0 U	20	20	15.6	15.3	78	76	35-150	2	30	
Vinyl chloride	ug/L	1.0 U	20	20	17.6	17.5	88	87	60-133	1	30	
Xylene (Total)	ug/L	1.4J	60	60	61.2	60.7	100	99	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%.						95	91	80-120			
4-Bromofluorobenzene (S)	%.						97	102	78-122			
Dibromofluoromethane (S)	%.						100	97	80-120			
Toluene-d8 (S)	%.						98	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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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30340800

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.
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.: 30340800

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30340800001	**CO41-PZM001**	EPA 8260B	377309		
30340800002	**CO41-PZM036**	EPA 8260B	377309		
30340800003	**CO36-PZM008**	EPA 8260B	377309		
30340800004	**CO36-PZM043**	EPA 8260B	377309		
30340800005	**CO38-PZM006**	EPA 8260B	377309		
30340800006	**CO38-PZM043**	EPA 8260B	377309		
30340800007	**Trip Blank**	EPA 8260B	377309		

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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
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:	190275M-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

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# : 30340800

30340800

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	Residu	Pace Project No./ Lab I.D.
C041-PZM001	WT	G		12-13-19		1157		3				3						X		CO1
C041-PZM036	WT	G				1240		3				3						X		CO2
C036-PZM008	WT	G				1341		3				3						X		CO3
C036-PZM043	WT	G				1428		3				3						X		CO4
C038-PZM006	WT	G				1515		3				3						X		CO5
C038-PZM043	WT	G				1553		3				3						X		CO6
Trip Blank	WT					—		2				2						X		CO7

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)
C038-PZM006 incorrectly labeled	[signature] ARM	12-13-19	1615	[signature] / Pace	12/13/19	1619				
analysis for zinc & cadmium. Please	[signature] / Pace	12/13/19	1955	RDS [signature]	12-13-19	2000		Y		
disregard the label and run for	RDS [signature]	12-13-19	2300	[signature]	12-13-19	23:00	1.9	Y	N	Y
VOC & naphthalene										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Van Ness

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 12/13/19

*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 # 30340800

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label DK

LIMS Login DM

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 1C Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 1.9 °C Correction Factor: 0 °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: DM 12-14-19

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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.
All containers meet method preservation requirements.	✓			Initial when completed: DM Date/time of preservation: Lot # of added preservative:
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad Samples Screened < 0.5 mrem/hr			✓	Initial when completed: DM 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 30, 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.: 30341014

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2019. 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.: 30341014

Pace Analytical Services Pennsylvania
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
Florida: Cert E871149 SEKS WET
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.: 30341014

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30341014001	**Trip Blank**	Water	12/16/19 00:01	12/16/19 23:55
30341014002	**CO37-PZM038**	Water	12/16/19 10:56	12/16/19 23:55
30341014003	**CO39-PZM042**	Water	12/16/19 12:17	12/16/19 23:55
30341014004	**CO39-PZM007**	Water	12/16/19 12:53	12/16/19 23:55
30341014005	**CO42-PZM004**	Water	12/16/19 13:38	12/16/19 23:55
30341014006	**CO40-PZM008**	Water	12/16/19 14:28	12/16/19 23:55

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30341014

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30341014001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30341014002	**CO37-PZM038**	EPA 8260B	LEL	53	PASI-PA
30341014003	**CO39-PZM042**	EPA 8260B	LEL	53	PASI-PA
30341014004	**CO39-PZM007**	EPA 8260B	LEL	53	PASI-PA
30341014005	**CO42-PZM004**	EPA 8260B	LEL	53	PASI-PA
30341014006	**CO40-PZM008**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341014

Sample: Trip Blank **Lab ID: 30341014001** Collected: 12/16/19 00:01 Received: 12/16/19 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	0.55	1		12/26/19 13:40	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/26/19 13:40	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/26/19 13:40	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/26/19 13:40	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/26/19 13:40	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/26/19 13:40	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/26/19 13:40	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.55	1		12/26/19 13:40	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/26/19 13:40	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/26/19 13:40	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/26/19 13:40	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/26/19 13:40	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/26/19 13:40	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1.5	1		12/26/19 13:40	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.58	1		12/26/19 13:40	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.42	1		12/26/19 13:40	108-10-1	L1
Acetone	ND	ug/L	10.0	5.6	1		12/26/19 13:40	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/26/19 13:40	107-13-1	L1
Benzene	**1.0 U**	ug/L	1.0	0.34	1		12/26/19 13:40	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/26/19 13:40	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/26/19 13:40	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/26/19 13:40	75-25-2	
Bromomethane	**0.80J**	ug/L	1.0	0.73	1		12/26/19 13:40	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/26/19 13:40	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/26/19 13:40	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/26/19 13:40	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/26/19 13:40	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/26/19 13:40	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/26/19 13:40	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/26/19 13:40	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/26/19 13:40	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/26/19 13:40	100-41-4	
Iodomethane	ND	ug/L	1.0	0.52	1		12/26/19 13:40	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/26/19 13:40	1634-04-4	
Methylene Chloride	**2.7**	ug/L	1.0	0.64	1		12/26/19 13:40	75-09-2	L1
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/26/19 13:40	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/26/19 13:40	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/26/19 13:40	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		12/26/19 13:40	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/26/19 13:40	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/26/19 13:40	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.57	1		12/26/19 13:40	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/26/19 13:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		12/26/19 13:40	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/26/19 13:40	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/26/19 13:40	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341014

Sample: Trip Blank **Lab ID: 30341014001** Collected: 12/16/19 00:01 Received: 12/16/19 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	0.28	1		12/26/19 13:40	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/26/19 13:40	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.58	1		12/26/19 13:40	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		12/26/19 13:40	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	80-120		1		12/26/19 13:40	17060-07-0	
Toluene-d8 (S)	92	%.	80-120		1		12/26/19 13:40	2037-26-5	
Dibromofluoromethane (S)	104	%.	80-120		1		12/26/19 13:40	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341014

Sample: CO37-PZM038 **Lab ID: 30341014002** Collected: 12/16/19 10:56 Received: 12/16/19 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	2.7	5		12/26/19 17:02	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/26/19 17:02	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/26/19 17:02	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/26/19 17:02	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/26/19 17:02	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/26/19 17:02	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/26/19 17:02	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/26/19 17:02	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/26/19 17:02	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/26/19 17:02	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/26/19 17:02	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/26/19 17:02	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/26/19 17:02	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/26/19 17:02	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/26/19 17:02	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/26/19 17:02	108-10-1	L1
Acetone	**39.7J**	ug/L	50.0	28.0	5		12/26/19 17:02	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/26/19 17:02	107-13-1	L1
Benzene	**10800**	ug/L	200	67.6	200		12/26/19 21:26	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/26/19 17:02	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/26/19 17:02	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/26/19 17:02	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		12/26/19 17:02	74-83-9	B
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/26/19 17:02	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/26/19 17:02	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/26/19 17:02	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/26/19 17:02	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/26/19 17:02	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/26/19 17:02	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/26/19 17:02	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/26/19 17:02	74-95-3	
Ethylbenzene	**306**	ug/L	5.0	2.0	5		12/26/19 17:02	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/26/19 17:02	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/26/19 17:02	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/26/19 17:02	75-09-2	L1
Naphthalene	**1800**	ug/L	10.0	4.1	5		12/26/19 17:02	91-20-3	
Styrene	**481**	ug/L	5.0	1.6	5		12/26/19 17:02	100-42-5	
Tetrachloroethene	**7.0**	ug/L	5.0	2.0	5		12/26/19 17:02	127-18-4	
Toluene	**6950**	ug/L	200	63.4	200		12/26/19 21:26	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/26/19 17:02	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/26/19 17:02	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/26/19 17:02	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/26/19 17:02	75-01-4	
Xylene (Total)	**2450**	ug/L	15.0	6.8	5		12/26/19 17:02	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/26/19 17:02	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/26/19 17:02	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341014

Sample: CO37-PZM038 **Lab ID: 30341014002** Collected: 12/16/19 10:56 Received: 12/16/19 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	1.4	5		12/26/19 17:02	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/26/19 17:02	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/26/19 17:02	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		5		12/26/19 17:02	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		5		12/26/19 17:02	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		5		12/26/19 17:02	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		5		12/26/19 17:02	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341014

Sample: CO39-PZM042 **Lab ID: 30341014003** Collected: 12/16/19 12:17 Received: 12/16/19 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	2.7	5		12/27/19 18:30	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 18:30	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 18:30	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 18:30	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 18:30	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 18:30	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/27/19 18:30	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/27/19 18:30	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/27/19 18:30	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 18:30	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 18:30	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 18:30	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 18:30	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/27/19 18:30	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/27/19 18:30	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/27/19 18:30	108-10-1	
Acetone	**46.4J**	ug/L	50.0	28.0	5		12/27/19 18:30	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/27/19 18:30	107-13-1	
Benzene	**5710**	ug/L	100	33.8	100		12/27/19 20:24	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 18:30	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 18:30	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/27/19 18:30	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		12/27/19 18:30	74-83-9	B
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 18:30	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/27/19 18:30	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/27/19 18:30	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/27/19 18:30	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 18:30	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 18:30	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/27/19 18:30	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 18:30	74-95-3	
Ethylbenzene	**64.7**	ug/L	5.0	2.0	5		12/27/19 18:30	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/27/19 18:30	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 18:30	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/27/19 18:30	75-09-2	
Naphthalene	**1990**	ug/L	10.0	4.1	5		12/27/19 18:30	91-20-3	
Styrene	**97.7**	ug/L	5.0	1.6	5		12/27/19 18:30	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 18:30	127-18-4	
Toluene	**2260**	ug/L	100	31.7	100		12/27/19 20:24	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/27/19 18:30	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/27/19 18:30	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/27/19 18:30	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 18:30	75-01-4	
Xylene (Total)	**546**	ug/L	15.0	6.8	5		12/27/19 18:30	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 18:30	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 18:30	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341014

Sample: CO39-PZM042 **Lab ID: 30341014003** Collected: 12/16/19 12:17 Received: 12/16/19 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	1.4	5		12/27/19 18:30	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 18:30	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/27/19 18:30	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		5		12/27/19 18:30	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%.	80-120		5		12/27/19 18:30	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		12/27/19 18:30	2037-26-5	
Dibromofluoromethane (S)	94	%.	80-120		5		12/27/19 18:30	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.: 30341014

Sample: CO39-PZM007 **Lab ID: 30341014004** Collected: 12/16/19 12:53 Received: 12/16/19 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	2.7	5		12/26/19 16:11	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/26/19 16:11	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/26/19 16:11	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/26/19 16:11	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/26/19 16:11	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/26/19 16:11	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/26/19 16:11	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/26/19 16:11	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/26/19 16:11	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/26/19 16:11	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/26/19 16:11	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/26/19 16:11	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/26/19 16:11	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/26/19 16:11	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/26/19 16:11	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/26/19 16:11	108-10-1	L1
Acetone	**31.6J**	ug/L	50.0	28.0	5		12/26/19 16:11	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/26/19 16:11	107-13-1	L1
Benzene	**1350**	ug/L	5.0	1.7	5		12/26/19 16:11	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/26/19 16:11	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/26/19 16:11	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/26/19 16:11	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		12/26/19 16:11	74-83-9	B
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/26/19 16:11	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/26/19 16:11	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/26/19 16:11	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/26/19 16:11	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/26/19 16:11	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/26/19 16:11	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/26/19 16:11	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/26/19 16:11	74-95-3	
Ethylbenzene	**12.6**	ug/L	5.0	2.0	5		12/26/19 16:11	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/26/19 16:11	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/26/19 16:11	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/26/19 16:11	75-09-2	L1
Naphthalene	**970**	ug/L	10.0	4.1	5		12/26/19 16:11	91-20-3	
Styrene	**10.5**	ug/L	5.0	1.6	5		12/26/19 16:11	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/26/19 16:11	127-18-4	
Toluene	**295**	ug/L	5.0	1.6	5		12/26/19 16:11	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/26/19 16:11	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/26/19 16:11	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/26/19 16:11	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/26/19 16:11	75-01-4	
Xylene (Total)	**90.8**	ug/L	15.0	6.8	5		12/26/19 16:11	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/26/19 16:11	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/26/19 16:11	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341014

Sample: CO39-PZM007 **Lab ID: 30341014004** Collected: 12/16/19 12:53 Received: 12/16/19 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	1.4	5		12/26/19 16:11	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/26/19 16:11	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/26/19 16:11	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		12/26/19 16:11	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		5		12/26/19 16:11	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		5		12/26/19 16:11	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		12/26/19 16:11	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341014

Sample: CO42-PZM004 **Lab ID: 30341014005** Collected: 12/16/19 13:38 Received: 12/16/19 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	0.55	1		12/26/19 15:21	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/26/19 15:21	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/26/19 15:21	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/26/19 15:21	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/26/19 15:21	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/26/19 15:21	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/26/19 15:21	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/26/19 15:21	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/26/19 15:21	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/26/19 15:21	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/26/19 15:21	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/26/19 15:21	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/26/19 15:21	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/26/19 15:21	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/26/19 15:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/26/19 15:21	108-10-1	L1
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/26/19 15:21	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/26/19 15:21	107-13-1	L1
Benzene	**27.5**	ug/L	1.0	0.34	1		12/26/19 15:21	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/26/19 15:21	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/26/19 15:21	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/26/19 15:21	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		12/26/19 15:21	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/26/19 15:21	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/26/19 15:21	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/26/19 15:21	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/26/19 15:21	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/26/19 15:21	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/26/19 15:21	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/26/19 15:21	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/26/19 15:21	74-95-3	
Ethylbenzene	**5.9**	ug/L	1.0	0.40	1		12/26/19 15:21	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/26/19 15:21	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/26/19 15:21	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/26/19 15:21	75-09-2	L1
Naphthalene	**31.6**	ug/L	2.0	0.82	1		12/26/19 15:21	91-20-3	
Styrene	**3.9**	ug/L	1.0	0.33	1		12/26/19 15:21	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/26/19 15:21	127-18-4	
Toluene	**35.7**	ug/L	1.0	0.32	1		12/26/19 15:21	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/26/19 15:21	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/26/19 15:21	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/26/19 15:21	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/26/19 15:21	75-01-4	
Xylene (Total)	**121**	ug/L	3.0	1.4	1		12/26/19 15:21	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/26/19 15:21	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/26/19 15:21	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341014

Sample: CO42-PZM004 **Lab ID: 30341014005** Collected: 12/16/19 13:38 Received: 12/16/19 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	0.28	1		12/26/19 15:21	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/26/19 15:21	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/26/19 15:21	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		12/26/19 15:21	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	80-120		1		12/26/19 15:21	17060-07-0	
Toluene-d8 (S)	92	%.	80-120		1		12/26/19 15:21	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		1		12/26/19 15:21	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341014

Sample: CO40-PZM008 **Lab ID: 30341014006** Collected: 12/16/19 14:28 Received: 12/16/19 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	0.55	1		12/26/19 15:46	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/26/19 15:46	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/26/19 15:46	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/26/19 15:46	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/26/19 15:46	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/26/19 15:46	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/26/19 15:46	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/26/19 15:46	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/26/19 15:46	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/26/19 15:46	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/26/19 15:46	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/26/19 15:46	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/26/19 15:46	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/26/19 15:46	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/26/19 15:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/26/19 15:46	108-10-1	L1
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/26/19 15:46	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/26/19 15:46	107-13-1	L1
Benzene	**137**	ug/L	1.0	0.34	1		12/26/19 15:46	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/26/19 15:46	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/26/19 15:46	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/26/19 15:46	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		12/26/19 15:46	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/26/19 15:46	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/26/19 15:46	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/26/19 15:46	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/26/19 15:46	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/26/19 15:46	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/26/19 15:46	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/26/19 15:46	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/26/19 15:46	74-95-3	
Ethylbenzene	**1.3**	ug/L	1.0	0.40	1		12/26/19 15:46	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/26/19 15:46	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/26/19 15:46	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/26/19 15:46	75-09-2	L1
Naphthalene	**68.2**	ug/L	2.0	0.82	1		12/26/19 15:46	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/26/19 15:46	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/26/19 15:46	127-18-4	
Toluene	**19.6**	ug/L	1.0	0.32	1		12/26/19 15:46	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/26/19 15:46	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/26/19 15:46	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/26/19 15:46	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/26/19 15:46	75-01-4	
Xylene (Total)	**8.4**	ug/L	3.0	1.4	1		12/26/19 15:46	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/26/19 15:46	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/26/19 15:46	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341014

Sample: CO40-PZM008 **Lab ID: 30341014006** Collected: 12/16/19 14:28 Received: 12/16/19 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	0.28	1		12/26/19 15:46	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/26/19 15:46	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/26/19 15:46	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		12/26/19 15:46	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		12/26/19 15:46	17060-07-0	
Toluene-d8 (S)	92	%.	80-120		1		12/26/19 15:46	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		1		12/26/19 15:46	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341014

QC Batch: 377149 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30341014001, 30341014002, 30341014004, 30341014005, 30341014006

METHOD BLANK: 1829436 Matrix: Water
Associated Lab Samples: 30341014001, 30341014002, 30341014004, 30341014005, 30341014006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	12/26/19 12:50	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	12/26/19 12:50	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	12/26/19 12:50	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	12/26/19 12:50	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	12/26/19 12:50	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	12/26/19 12:50	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	12/26/19 12:50	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	12/26/19 12:50	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	12/26/19 12:50	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	12/26/19 12:50	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	12/26/19 12:50	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	12/26/19 12:50	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	12/26/19 12:50	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	12/26/19 12:50	
2-Hexanone	ug/L	10.0 U	10.0	0.58	12/26/19 12:50	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	12/26/19 12:50	
Acetone	ug/L	10.0 U	10.0	5.6	12/26/19 12:50	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	12/26/19 12:50	
Benzene	ug/L	1.0 U	1.0	0.34	12/26/19 12:50	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	12/26/19 12:50	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	12/26/19 12:50	
Bromoform	ug/L	1.0 U	1.0	0.56	12/26/19 12:50	
Bromomethane	ug/L	1.1	1.0	0.73	12/26/19 12:50	B
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/26/19 12:50	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	12/26/19 12:50	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	12/26/19 12:50	
Chloroethane	ug/L	1.0 U	1.0	0.64	12/26/19 12:50	
Chloroform	ug/L	1.0 U	1.0	0.39	12/26/19 12:50	
Chloromethane	ug/L	1.0 U	1.0	0.40	12/26/19 12:50	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	12/26/19 12:50	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	12/26/19 12:50	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	12/26/19 12:50	
Dibromomethane	ug/L	1.0 U	1.0	0.34	12/26/19 12:50	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	12/26/19 12:50	
Iodomethane	ug/L	50.0 U	50.0	0.52	12/26/19 12:50	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	12/26/19 12:50	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	12/26/19 12:50	
Naphthalene	ug/L	2.0 U	2.0	0.82	12/26/19 12:50	
Styrene	ug/L	1.0 U	1.0	0.33	12/26/19 12:50	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	12/26/19 12:50	
Toluene	ug/L	1.0 U	1.0	0.32	12/26/19 12:50	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341014

METHOD BLANK: 1829436 Matrix: Water
Associated Lab Samples: 30341014001, 30341014002, 30341014004, 30341014005, 30341014006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	12/26/19 12:50	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	12/26/19 12:50	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	12/26/19 12:50	
Trichloroethene	ug/L	1.0 U	1.0	0.29	12/26/19 12:50	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	12/26/19 12:50	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	12/26/19 12:50	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	12/26/19 12:50	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	12/26/19 12:50	
1,2-Dichloroethane-d4 (S)	%.	101	80-120		12/26/19 12:50	
4-Bromofluorobenzene (S)	%.	99	78-122		12/26/19 12:50	
Dibromofluoromethane (S)	%.	105	80-120		12/26/19 12:50	
Toluene-d8 (S)	%.	93	80-120		12/26/19 12:50	

LABORATORY CONTROL SAMPLE: 1829437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.4	112	70-130	
1,1,1-Trichloroethane	ug/L	20	21.6	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	22.5	112	70-130	
1,1,2-Trichloroethane	ug/L	20	21.6	108	70-130	
1,1-Dichloroethane	ug/L	20	22.2	111	68-121	
1,1-Dichloroethene	ug/L	20	18.6	93	63-129	
1,2,3-Trichloropropane	ug/L	20	21.2	106	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.2	86	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	21.3	106	70-130	
1,2-Dichlorobenzene	ug/L	20	22.2	111	70-130	
1,2-Dichloroethane	ug/L	20	21.1	105	67-117	
1,2-Dichloropropane	ug/L	20	23.5	118	69-121	
1,4-Dichlorobenzene	ug/L	20	22.0	110	70-130	
2-Butanone (MEK)	ug/L	20	22.2	111	59-128	
2-Hexanone	ug/L	20	24.8	124	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	27.1	135	63-126	L1
Acetone	ug/L	20	25.8	129	37-150	
Acrylonitrile	ug/L	20	27.3	136	62-128	L1
Benzene	ug/L	20	21.0	105	70-130	
Bromochloromethane	ug/L	20	21.2	106	59-137	
Bromodichloromethane	ug/L	20	20.7	104	70-130	
Bromoform	ug/L	20	17.7	88	65-130	
Bromomethane	ug/L	20	12.9	64	45-148	B
Carbon disulfide	ug/L	20	18.6	93	55-123	
Carbon tetrachloride	ug/L	20	20.7	103	69-126	
Chlorobenzene	ug/L	20	23.3	117	70-130	
Chloroethane	ug/L	20	18.4	92	68-146	
Chloroform	ug/L	20	19.9	99	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341014

LABORATORY CONTROL SAMPLE: 1829437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	21.4	107	56-129	
cis-1,2-Dichloroethene	ug/L	20	21.9	109	66-118	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
Dibromochloromethane	ug/L	20	20.1	100	70-130	
Dibromomethane	ug/L	20	20.2	101	70-130	
Ethylbenzene	ug/L	20	22.9	115	70-130	
Iodomethane	ug/L	20	16.1J	81	10-175	
Methyl-tert-butyl ether	ug/L	20	20.3	102	70-130	
Methylene Chloride	ug/L	20	25.0	125	65-124	L1
Naphthalene	ug/L	20	21.4	107	69-135	
Styrene	ug/L	20	23.4	117	70-130	
Tetrachloroethene	ug/L	20	22.3	111	70-130	
Toluene	ug/L	20	21.6	108	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.2	111	64-123	
trans-1,3-Dichloropropene	ug/L	20	19.8	99	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	22.2	111	37-119	
Trichloroethene	ug/L	20	22.6	113	70-130	
Trichlorofluoromethane	ug/L	20	21.6	108	64-163	
Vinyl acetate	ug/L	20	21.5	108	45-129	
Vinyl chloride	ug/L	20	20.4	102	70-130	
Xylene (Total)	ug/L	60	65.6	109	70-130	
1,2-Dichloroethane-d4 (S)	%.			102	80-120	
4-Bromofluorobenzene (S)	%.			99	78-122	
Dibromofluoromethane (S)	%.			105	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1829438 1829439

Parameter	Units	30341447001 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	18.0	18.4	90	92	52-123	2	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	18.1	18.8	91	94	67-127	3	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.8	19.3	94	97	55-118	3	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.0	18.5	90	93	60-117	3	30	
1,1-Dichloroethane	ug/L	ND	20	20	18.1	18.9	90	95	68-118	5	30	
1,1-Dichloroethene	ug/L	ND	20	20	14.9	18.1	75	90	62-126	19	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	17.8	18.9	89	94	56-129	6	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	12.2	13.8	61	69	46-130	12	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	17.1	17.1	86	85	69-124	1	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.5	18.4	93	92	66-116	1	30	
1,2-Dichloroethane	ug/L	ND	20	20	17.0	17.5	85	88	67-117	3	30	
1,2-Dichloropropane	ug/L	ND	20	20	19.1	19.7	96	98	61-128	3	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.3	18.8	91	94	68-116	3	30	
2-Butanone (MEK)	ug/L	ND	20	20	17.4	17.9	87	90	63-175	3	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341014

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1829438 1829439

Parameter	Units	30341447001 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	19.8	20.5	99	103	65-151	4	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	20.0	20.3	100	101	66-149	1	30	
Acetone	ug/L	ND	20	20	18.8	18.7	94	94	10-175	1	30	
Acrylonitrile	ug/L	ND	20	20	21.1	22.1	106	111	42-165	5	30	
Benzene	ug/L	ND	20	20	17.0	17.9	85	89	67-119	5	30	
Bromochloromethane	ug/L	ND	20	20	17.5	17.3	88	87	64-124	1	30	
Bromodichloromethane	ug/L	ND	20	20	15.3	15.9	76	80	67-126	4	30	
Bromoform	ug/L	ND	20	20	12.2	12.7	61	64	43-114	4	30	
Bromomethane	ug/L	1.2	20	20	5.1	5.2	19	20	10-164	3	30	B
Carbon disulfide	ug/L	ND	20	20	12.5	15.5	62	77	37-135	22	30	
Carbon tetrachloride	ug/L	ND	20	20	16.4	18.0	82	90	60-137	9	30	
Chlorobenzene	ug/L	ND	20	20	19.1	19.6	95	98	68-119	3	30	
Chloroethane	ug/L	ND	20	20	22.3	19.1	111	96	54-169	15	30	
Chloroform	ug/L	ND	20	20	17.2	17.7	86	88	69-113	3	30	
Chloromethane	ug/L	ND	20	20	19.6	20.1	98	101	43-159	3	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.2	20.7	106	104	65-121	2	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	14.2	15.4	71	77	61-120	8	30	
Dibromochloromethane	ug/L	ND	20	20	14.4	14.7	72	73	56-121	2	30	
Dibromomethane	ug/L	ND	20	20	16.3	16.3	81	82	56-133	0	30	
Ethylbenzene	ug/L	ND	20	20	18.8	19.5	94	97	69-127	3	30	
Iodomethane	ug/L	ND	20	20	4.6J	18.2J	23	91	10-152		30	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.6	16.0	78	80	70-130	3	30	
Methylene Chloride	ug/L	ND	20	20	20.3	21.1	101	105	49-144	4	30	
Naphthalene	ug/L	ND	20	20	16.1	16.9	80	84	60-136	5	30	
Styrene	ug/L	ND	20	20	18.2	19.5	91	98	65-120	7	30	
Tetrachloroethene	ug/L	ND	20	20	18.3	19.5	92	98	64-123	6	30	
Toluene	ug/L	ND	20	20	17.7	18.8	89	94	70-130	6	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.7	19.3	93	97	66-119	4	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	14.7	15.7	73	79	52-117	7	30	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	10.9	12.1	55	60	13-100	10	30	
Trichloroethene	ug/L	ND	20	20	18.7	19.3	93	97	63-125	3	30	
Trichlorofluoromethane	ug/L	ND	20	20	20.7	20.4	104	102	43-186	2	30	
Vinyl acetate	ug/L	ND	20	20	17.8	17.1	89	86	35-150	4	30	
Vinyl chloride	ug/L	ND	20	20	18.4	20.2	92	101	60-133	9	30	
Xylene (Total)	ug/L	ND	60	60	55.1	57.0	92	95	69-128	3	30	
1,2-Dichloroethane-d4 (S)	%.						96	97	80-120			
4-Bromofluorobenzene (S)	%.						101	101	78-122			
Dibromofluoromethane (S)	%.						103	100	80-120			
Toluene-d8 (S)	%.						95	93	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341014

QC Batch: 377309 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30341014003

METHOD BLANK: 1830007 Matrix: Water
Associated Lab Samples: 30341014003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	12/27/19 12:57	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	12/27/19 12:57	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	12/27/19 12:57	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	12/27/19 12:57	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	12/27/19 12:57	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	12/27/19 12:57	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	12/27/19 12:57	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	12/27/19 12:57	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	12/27/19 12:57	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	12/27/19 12:57	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	12/27/19 12:57	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	12/27/19 12:57	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	12/27/19 12:57	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	12/27/19 12:57	
2-Hexanone	ug/L	10.0 U	10.0	0.58	12/27/19 12:57	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	12/27/19 12:57	
Acetone	ug/L	10.0 U	10.0	5.6	12/27/19 12:57	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	12/27/19 12:57	
Benzene	ug/L	1.0 U	1.0	0.34	12/27/19 12:57	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	12/27/19 12:57	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	12/27/19 12:57	
Bromoform	ug/L	1.0 U	1.0	0.56	12/27/19 12:57	
Bromomethane	ug/L	1.2	1.0	0.73	12/27/19 12:57	B
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/27/19 12:57	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	12/27/19 12:57	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	12/27/19 12:57	
Chloroethane	ug/L	1.0 U	1.0	0.64	12/27/19 12:57	
Chloroform	ug/L	1.0 U	1.0	0.39	12/27/19 12:57	
Chloromethane	ug/L	1.0 U	1.0	0.40	12/27/19 12:57	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	12/27/19 12:57	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	12/27/19 12:57	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	12/27/19 12:57	
Dibromomethane	ug/L	1.0 U	1.0	0.34	12/27/19 12:57	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	12/27/19 12:57	
Iodomethane	ug/L	50.0 U	50.0	0.52	12/27/19 12:57	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	12/27/19 12:57	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	12/27/19 12:57	
Naphthalene	ug/L	2.0 U	2.0	0.82	12/27/19 12:57	
Styrene	ug/L	1.0 U	1.0	0.33	12/27/19 12:57	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	12/27/19 12:57	
Toluene	ug/L	1.0 U	1.0	0.32	12/27/19 12:57	

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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.: 30341014

METHOD BLANK: 1830007 Matrix: Water
Associated Lab Samples: 30341014003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	12/27/19 12:57	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	12/27/19 12:57	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	12/27/19 12:57	
Trichloroethene	ug/L	1.0 U	1.0	0.29	12/27/19 12:57	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	12/27/19 12:57	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	12/27/19 12:57	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	12/27/19 12:57	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	12/27/19 12:57	
1,2-Dichloroethane-d4 (S)	%.	101	80-120		12/27/19 12:57	
4-Bromofluorobenzene (S)	%.	101	78-122		12/27/19 12:57	
Dibromofluoromethane (S)	%.	101	80-120		12/27/19 12:57	
Toluene-d8 (S)	%.	92	80-120		12/27/19 12:57	

LABORATORY CONTROL SAMPLE: 1830008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.7	113	70-130	
1,1,1-Trichloroethane	ug/L	20	21.5	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	24.4	122	70-130	
1,1,2-Trichloroethane	ug/L	20	21.6	108	70-130	
1,1-Dichloroethane	ug/L	20	22.2	111	68-121	
1,1-Dichloroethene	ug/L	20	17.1	85	63-129	
1,2,3-Trichloropropane	ug/L	20	22.2	111	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.9	89	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	22.4	112	70-130	
1,2-Dichlorobenzene	ug/L	20	23.3	116	70-130	
1,2-Dichloroethane	ug/L	20	20.8	104	67-117	
1,2-Dichloropropane	ug/L	20	23.6	118	69-121	
1,4-Dichlorobenzene	ug/L	20	23.2	116	70-130	
2-Butanone (MEK)	ug/L	20	18.1	90	59-128	
2-Hexanone	ug/L	20	24.0	120	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	24.8	124	63-126	
Acetone	ug/L	20	26.5	133	37-150	
Acrylonitrile	ug/L	20	20.4	102	62-128	
Benzene	ug/L	20	20.8	104	70-130	
Bromochloromethane	ug/L	20	21.2	106	59-137	
Bromodichloromethane	ug/L	20	20.7	104	70-130	
Bromoform	ug/L	20	16.5	82	65-130	
Bromomethane	ug/L	20	12.7	63	45-148	B
Carbon disulfide	ug/L	20	14.7	74	55-123	
Carbon tetrachloride	ug/L	20	20.6	103	69-126	
Chlorobenzene	ug/L	20	23.9	119	70-130	
Chloroethane	ug/L	20	19.2	96	68-146	
Chloroform	ug/L	20	19.4	97	69-116	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341014

LABORATORY CONTROL SAMPLE: 1830008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	20.4	102	56-129	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	66-118	
cis-1,3-Dichloropropene	ug/L	20	18.7	93	70-130	
Dibromochloromethane	ug/L	20	18.9	94	70-130	
Dibromomethane	ug/L	20	19.6	98	70-130	
Ethylbenzene	ug/L	20	23.7	119	70-130	
Iodomethane	ug/L	20	15.7J	78	10-175	
Methyl-tert-butyl ether	ug/L	20	18.8	94	70-130	
Methylene Chloride	ug/L	20	23.7	118	65-124	
Naphthalene	ug/L	20	22.7	114	69-135	
Styrene	ug/L	20	24.1	121	70-130	
Tetrachloroethene	ug/L	20	22.9	115	70-130	
Toluene	ug/L	20	22.4	112	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.2	111	64-123	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	16.2	81	37-119	
Trichloroethene	ug/L	20	22.8	114	70-130	
Trichlorofluoromethane	ug/L	20	22.3	111	64-163	
Vinyl acetate	ug/L	20	20.5	102	45-129	
Vinyl chloride	ug/L	20	20.3	101	70-130	
Xylene (Total)	ug/L	60	69.0	115	70-130	
1,2-Dichloroethane-d4 (S)	%.			98	80-120	
4-Bromofluorobenzene (S)	%.			97	78-122	
Dibromofluoromethane (S)	%.			103	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1830328 1830329

Parameter	Units	30340800006 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	18.1	18.9	91	94	52-123	4	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	19.6	18.8	98	94	67-127	4	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.6	20.2	93	101	55-118	9	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.2	19.1	96	96	60-117	0	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	19.5	18.9	98	95	68-118	3	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	18.8	17.6	94	88	62-126	6	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	17.9	18.1	89	90	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	12.4	13.2	62	66	46-130	6	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.0	18.0	90	90	69-124	0	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	18.6	19.3	93	97	66-116	4	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	16.7	16.7	84	84	67-117	0	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	20.7	20.4	104	102	61-128	2	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	19.1	19.8	95	99	68-116	4	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	13.9	18.9	69	95	63-175	31	30	R1

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341014

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1830328 1830329

Parameter	Units	30340800006 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	18.6	95	93	65-151	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	20.8	19.5	104	97	66-149	7	30	
Acetone	ug/L	10.0 U	20	20	19.4	19.3	93	92	10-175	0	30	
Acrylonitrile	ug/L	4.0 U	20	20	21.0	19.8	105	99	42-165	6	30	
Benzene	ug/L	0.54J	20	20	20.7	18.7	101	91	67-119	10	30	
Bromochloromethane	ug/L	1.0 U	20	20	19.9	18.0	100	90	64-124	10	30	
Bromodichloromethane	ug/L	1.0 U	20	20	16.1	15.7	80	79	67-126	2	30	
Bromoform	ug/L	1.0 U	20	20	11.7	12.1	58	60	43-114	3	30	
Bromomethane	ug/L	0.88J	20	20	2.3	3.0	7	11	10-164	26	30	B,ML
Carbon disulfide	ug/L	1.0 U	20	20	15.9	14.9	80	74	37-135	7	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	18.2	17.2	91	86	60-137	5	30	
Chlorobenzene	ug/L	1.0 U	20	20	20.7	20.7	103	104	68-119	0	30	
Chloroethane	ug/L	1.0 U	20	20	25.2	22.7	126	113	54-169	11	30	
Chloroform	ug/L	1.0 U	20	20	17.8	17.0	89	85	69-113	5	30	
Chloromethane	ug/L	1.0 U	20	20	14.0	14.6	70	73	43-159	4	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.8	18.4	99	92	65-121	7	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.5	15.5	82	77	61-120	6	30	
Dibromochloromethane	ug/L	1.0 U	20	20	14.7	13.6	73	68	56-121	7	30	
Dibromomethane	ug/L	1.0 U	20	20	17.6	17.2	88	86	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	20.5	20.0	103	100	69-127	3	30	
Iodomethane	ug/L	50.0 U	20	20	2.5J	8.3J	13	41	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	17.3	16.8	86	84	70-130	3	30	
Methylene Chloride	ug/L	1.0 U	20	20	20.2	18.8	101	94	49-144	7	30	
Naphthalene	ug/L	30.5	20	20	18.6	19.8	-59	-54	60-136	6	30	ML
Styrene	ug/L	1.0 U	20	20	20.3	20.3	101	102	65-120	0	30	
Tetrachloroethene	ug/L	1.0 U	20	20	19.8	19.6	99	98	64-123	1	30	
Toluene	ug/L	0.33J	20	20	20.0	19.8	98	97	70-130	1	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.2	18.6	96	93	66-119	3	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.3	14.8	82	74	52-117	10	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	7.3	7.8	36	39	13-100	7	30	
Trichloroethene	ug/L	1.0 U	20	20	20.6	19.9	103	99	63-125	4	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	23.5	23.2	117	116	43-186	1	30	
Vinyl acetate	ug/L	1.0 U	20	20	15.6	15.3	78	76	35-150	2	30	
Vinyl chloride	ug/L	1.0 U	20	20	17.6	17.5	88	87	60-133	1	30	
Xylene (Total)	ug/L	1.4J	60	60	61.2	60.7	100	99	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%.						95	91	80-120			
4-Bromofluorobenzene (S)	%.						97	102	78-122			
Dibromofluoromethane (S)	%.						100	97	80-120			
Toluene-d8 (S)	%.						98	96	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.: 30341014

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.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples 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.: 30341014

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30341014001	**Trip Blank**	EPA 8260B	377149		
30341014002	**CO37-PZM038**	EPA 8260B	377149		
30341014003	**CO39-PZM042**	EPA 8260B	377309		
30341014004	**CO39-PZM007**	EPA 8260B	377149		
30341014005	**CO42-PZM004**	EPA 8260B	377149		
30341014006	**CO40-PZM008**	EPA 8260B	377149		

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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: 190275M-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

WO#: 30341014
30341014

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	Res	Pace Project No./ Lab I.D.
1	Trip Blank	WT			12-16-19				2				2						X		001
2	C037-PZM038	WT	G				1056		3				3						X		002
3	C039-PZM042	WT	G				1217		3				3						X		003
4	C039-PZM007	WT	G				1253		3				3						X		004
5	C042-PZM004	WT	G				1334		3				3						X		005
6	C040-PZM005	WT	G				1426		3				3						X		006
7																					
8																					
9																					
10																					
11																					
12									17												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	ARM	12-16-19	1520	ARM/PACE	12/16/19	1615
	ARM/PACE	12/16/19	1930	Ben Mentum	12-16-19	2045
	Ben Mentum	12-16-19	2355	Ben Mentum	12-16-19	2355

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Tyler Van Ness
SIGNATURE of SAMPLER: TVN
DATE Signed (MM/DD/YY): 12/16/19

*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 # 30341014

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label BLM
LIMS Login BLM

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 2.4 °C Correction Factor: 0 °C Final Temp: 2.4 °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: BLM 12-17-19
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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix		✓		16.
All containers meet method preservation requirements.	✓			Initial when completed BLM — Date/time of preservation: — Lot # of added preservative:
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad 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, 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.: 30341513

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on December 18, 2019. 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.: 30341513

Pace Analytical Services Pennsylvania
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
Florida: Cert E871149 SEKS WET
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.: 30341513

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30341513001	**Trip Blank**	Water	12/18/19 00:01	12/18/19 23:45
30341513002	**CO62-PZM007**	Water	12/18/19 10:51	12/18/19 23:45
30341513003	**CO61-PZM007**	Water	12/18/19 11:18	12/18/19 23:45
30341513004	**CO64-PZM006**	Water	12/18/19 12:13	12/18/19 23:45
30341513005	**CO26-PZM007**	Water	12/18/19 09:35	12/18/19 23:45
30341513006	**CO26-PZM032**	Water	12/18/19 10:50	12/18/19 23:45
30341513007	**CO63-PZM007**	Water	12/18/19 12:35	12/18/19 23:45
30341513008	**CO67-PZM006**	Water	12/18/19 14:21	12/18/19 23:45
30341513009	**CO70-PZM005**	Water	12/18/19 15:12	12/18/19 23:45
30341513010	**CO71-PZM006**	Water	12/18/19 15:39	12/18/19 23:45
30341513011	**CO65-PZM005**	Water	12/18/19 15:51	12/18/19 23:45
30341513012	**CO72-PZM005**	Water	12/18/19 16:00	12/18/19 23:45
30341513013	**CO68-PZM005**	Water	12/18/19 16:16	12/18/19 23:45
30341513014	**CO66-PZM005**	Water	12/18/19 16:27	12/18/19 23:45

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30341513

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30341513001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30341513002	**CO62-PZM007**	EPA 8260B	LEL	53	PASI-PA
30341513003	**CO61-PZM007**	EPA 8260B	LEL	53	PASI-PA
30341513004	**CO64-PZM006**	EPA 8260B	LEL	53	PASI-PA
30341513005	**CO26-PZM007**	EPA 8015D	SEL	2	PASI-PA
		EPA 5030/8015B	LEL	3	PASI-PA
		EPA 8260B	LEL	53	PASI-PA
30341513006	**CO26-PZM032**	EPA 8015D	SEL	2	PASI-PA
		EPA 5030/8015B	LEL	3	PASI-PA
		EPA 8260B	LEL	53	PASI-PA
30341513007	**CO63-PZM007**	EPA 8260B	LEL	53	PASI-PA
30341513008	**CO67-PZM006**	EPA 8260B	LEL	53	PASI-PA
30341513009	**CO70-PZM005**	EPA 8260B	LEL	53	PASI-PA
30341513010	**CO71-PZM006**	EPA 8260B	LEL	53	PASI-PA
30341513011	**CO65-PZM005**	EPA 8260B	LEL	53	PASI-PA
30341513012	**CO72-PZM005**	EPA 8260B	LEL	53	PASI-PA
30341513013	**CO68-PZM005**	EPA 8260B	LEL	53	PASI-PA
30341513014	**CO66-PZM005**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: Trip Blank **Lab ID: 30341513001** Collected: 12/18/19 00:01 Received: 12/18/19 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	0.55	1		12/27/19 13:23	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 13:23	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/27/19 13:23	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 13:23	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 13:23	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 13:23	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/27/19 13:23	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.55	1		12/27/19 13:23	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 13:23	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 13:23	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 13:23	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/27/19 13:23	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 13:23	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1.5	1		12/27/19 13:23	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.58	1		12/27/19 13:23	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.42	1		12/27/19 13:23	108-10-1	
Acetone	ND	ug/L	10.0	5.6	1		12/27/19 13:23	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/27/19 13:23	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		12/27/19 13:23	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 13:23	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/27/19 13:23	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/27/19 13:23	75-25-2	
Bromomethane	**1.1**	ug/L	1.0	0.73	1		12/27/19 13:23	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 13:23	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 13:23	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/27/19 13:23	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 13:23	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 13:23	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/19 13:23	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/27/19 13:23	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/19 13:23	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/27/19 13:23	100-41-4	
Iodomethane	ND	ug/L	1.0	0.52	1		12/27/19 13:23	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/27/19 13:23	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 13:23	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/27/19 13:23	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 13:23	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 13:23	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 13:23	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 13:23	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/27/19 13:23	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.57	1		12/27/19 13:23	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 13:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		12/27/19 13:23	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 13:23	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 13:23	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.: 30341513

Sample: Trip Blank **Lab ID: 30341513001** Collected: 12/18/19 00:01 Received: 12/18/19 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	0.28	1		12/27/19 13:23	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 13:23	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.58	1		12/27/19 13:23	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	78-122		1		12/27/19 13:23	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		1		12/27/19 13:23	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		1		12/27/19 13:23	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		1		12/27/19 13:23	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO62-PZM007 **Lab ID: 30341513002** Collected: 12/18/19 10:51 Received: 12/18/19 23:45 Matrix: Water

Comments: • Time of collection 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	**1.0 U**	ug/L	1.0	0.55	1		12/27/19 15:32	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 15:32	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/27/19 15:32	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 15:32	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 15:32	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 15:32	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/27/19 15:32	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/27/19 15:32	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 15:32	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 15:32	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 15:32	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/27/19 15:32	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 15:32	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/27/19 15:32	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/27/19 15:32	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/27/19 15:32	108-10-1	
Acetone	**7.1J**	ug/L	10.0	5.6	1		12/27/19 15:32	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/27/19 15:32	107-13-1	
Benzene	**355**	ug/L	1.0	0.34	1		12/27/19 15:32	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 15:32	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/27/19 15:32	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/27/19 15:32	75-25-2	
Bromomethane	**0.99J**	ug/L	1.0	0.73	1		12/27/19 15:32	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 15:32	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 15:32	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/27/19 15:32	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 15:32	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 15:32	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/19 15:32	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/27/19 15:32	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/19 15:32	74-95-3	
Ethylbenzene	**20.0**	ug/L	1.0	0.40	1		12/27/19 15:32	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/27/19 15:32	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/27/19 15:32	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 15:32	75-09-2	
Naphthalene	**1920**	ug/L	40.0	16.4	20		12/27/19 21:28	91-20-3	
Styrene	**52.4**	ug/L	1.0	0.33	1		12/27/19 15:32	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 15:32	127-18-4	
Toluene	**197**	ug/L	1.0	0.32	1		12/27/19 15:32	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 15:32	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/27/19 15:32	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/27/19 15:32	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 15:32	75-01-4	
Xylene (Total)	**347**	ug/L	3.0	1.4	1		12/27/19 15:32	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 15:32	156-59-2	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO62-PZM007 **Lab ID: 30341513002** Collected: 12/18/19 10:51 Received: 12/18/19 23:45 Matrix: Water

Comments: • Time of collection 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	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 15:32	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		12/27/19 15:32	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 15:32	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/27/19 15:32	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		12/27/19 15:32	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		1		12/27/19 15:32	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		12/27/19 15:32	2037-26-5	
Dibromofluoromethane (S)	94	%.	80-120		1		12/27/19 15:32	1868-53-7	

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

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO61-PZM007 **Lab ID: 30341513003** Collected: 12/18/19 11:18 Received: 12/18/19 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	0.55	1		12/30/19 02:35	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 02:35	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/30/19 02:35	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/30/19 02:35	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/30/19 02:35	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/30/19 02:35	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/30/19 02:35	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/30/19 02:35	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/30/19 02:35	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 02:35	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/30/19 02:35	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/30/19 02:35	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/30/19 02:35	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/30/19 02:35	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/30/19 02:35	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/30/19 02:35	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/30/19 02:35	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/30/19 02:35	107-13-1	
Benzene	**203**	ug/L	1.0	0.34	1		12/30/19 02:35	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/30/19 02:35	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/30/19 02:35	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/30/19 02:35	75-25-2	
Bromomethane	**0.86J**	ug/L	1.0	0.73	1		12/30/19 02:35	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/30/19 02:35	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/30/19 02:35	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/30/19 02:35	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/30/19 02:35	75-00-3	CH
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/30/19 02:35	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/30/19 02:35	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/30/19 02:35	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/30/19 02:35	74-95-3	
Ethylbenzene	**12.1**	ug/L	1.0	0.40	1		12/30/19 02:35	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/30/19 02:35	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/30/19 02:35	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/30/19 02:35	75-09-2	
Naphthalene	**1070**	ug/L	20.0	8.2	10		12/29/19 23:47	91-20-3	
Styrene	**22.4**	ug/L	1.0	0.33	1		12/30/19 02:35	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/30/19 02:35	127-18-4	
Toluene	**106**	ug/L	1.0	0.32	1		12/30/19 02:35	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 02:35	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/30/19 02:35	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/30/19 02:35	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 02:35	75-01-4	
Xylene (Total)	**188**	ug/L	3.0	1.4	1		12/30/19 02:35	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 02:35	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 02:35	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO61-PZM007 **Lab ID: 30341513003** Collected: 12/18/19 11:18 Received: 12/18/19 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	0.28	1		12/30/19 02:35	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/30/19 02:35	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/30/19 02:35	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		12/30/19 02:35	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		1		12/30/19 02:35	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		12/30/19 02:35	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		1		12/30/19 02:35	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO64-PZM006 **Lab ID: 30341513004** Collected: 12/18/19 12:13 Received: 12/18/19 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	2.7	5		12/30/19 04:17	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 04:17	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 04:17	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 04:17	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 04:17	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 04:17	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/30/19 04:17	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/30/19 04:17	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/30/19 04:17	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 04:17	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 04:17	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 04:17	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 04:17	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/30/19 04:17	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/30/19 04:17	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/30/19 04:17	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		12/30/19 04:17	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/30/19 04:17	107-13-1	
Benzene	**376**	ug/L	5.0	1.7	5		12/30/19 04:17	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 04:17	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 04:17	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/30/19 04:17	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		12/30/19 04:17	74-83-9	B
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 04:17	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/30/19 04:17	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/30/19 04:17	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/30/19 04:17	75-00-3	CH
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 04:17	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 04:17	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/30/19 04:17	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 04:17	74-95-3	
Ethylbenzene	**20.8**	ug/L	5.0	2.0	5		12/30/19 04:17	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/30/19 04:17	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 04:17	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/30/19 04:17	75-09-2	
Naphthalene	**3590**	ug/L	100	41.0	50		12/30/19 01:31	91-20-3	
Styrene	**77.4**	ug/L	5.0	1.6	5		12/30/19 04:17	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 04:17	127-18-4	
Toluene	**216**	ug/L	5.0	1.6	5		12/30/19 04:17	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/30/19 04:17	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/30/19 04:17	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/30/19 04:17	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 04:17	75-01-4	
Xylene (Total)	**403**	ug/L	15.0	6.8	5		12/30/19 04:17	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 04:17	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 04:17	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO64-PZM006 **Lab ID: 30341513004** Collected: 12/18/19 12:13 Received: 12/18/19 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	1.4	5		12/30/19 04:17	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 04:17	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/30/19 04:17	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		12/30/19 04:17	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		5		12/30/19 04:17	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		12/30/19 04:17	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		5		12/30/19 04:17	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO26-PZM007 **Lab ID: 30341513005** Collected: 12/18/19 09:35 Received: 12/18/19 23:45 Matrix: Water
Comments: • Unpreserved sample volume has basic pH

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D TPH	Analytical Method: EPA 8015D Preparation Method: EPA 3510C								
TPH (C10-C28)	**4.9**	mg/L	1.0	0.57	10	12/23/19 11:03	12/26/19 17:25		1c
Surrogates									
o-Terphenyl (S)	75	%.	17-90		10	12/23/19 11:03	12/26/19 17:25	84-15-1	
Gasoline Range Organics	Analytical Method: EPA 5030/8015B								
TPH (C06-C10)	**1720**	ug/L	200	98.0	1		12/23/19 17:16		
Surrogates									
a,a,a-Trifluorotoluene (S)	74	%.	48-131		1		12/23/19 17:16	98-08-8	
4-Bromofluorobenzene (S)	94	%.	80-120		1		12/23/19 17:16	460-00-4	
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/29/19 23:09	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/29/19 23:09	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/29/19 23:09	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/29/19 23:09	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/29/19 23:09	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/29/19 23:09	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/29/19 23:09	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/29/19 23:09	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/29/19 23:09	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/29/19 23:09	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/29/19 23:09	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/29/19 23:09	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/29/19 23:09	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/29/19 23:09	78-93-3	
2-Hexanone	**2.8J**	ug/L	10.0	0.58	1		12/29/19 23:09	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/29/19 23:09	108-10-1	
Acetone	**11.4**	ug/L	10.0	5.6	1		12/29/19 23:09	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/29/19 23:09	107-13-1	
Benzene	**314**	ug/L	1.0	0.34	1		12/29/19 23:09	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/29/19 23:09	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/29/19 23:09	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/29/19 23:09	75-25-2	
Bromomethane	**2.1**	ug/L	1.0	0.73	1		12/29/19 23:09	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/29/19 23:09	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/29/19 23:09	56-23-5	
Chlorobenzene	**0.78J**	ug/L	1.0	0.26	1		12/29/19 23:09	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/29/19 23:09	75-00-3	CH
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/29/19 23:09	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/29/19 23:09	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/29/19 23:09	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/29/19 23:09	74-95-3	
Ethylbenzene	**14.1**	ug/L	1.0	0.40	1		12/29/19 23:09	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/29/19 23:09	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/29/19 23:09	1634-04-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO26-PZM007 **Lab ID: 30341513005** Collected: 12/18/19 09:35 Received: 12/18/19 23:45 Matrix: Water

Comments: • Unpreserved sample volume has basic pH

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/29/19 23:09	75-09-2	
Naphthalene	**3390**	ug/L	40.0	16.4	20		12/30/19 23:56	91-20-3	
Styrene	**64.8**	ug/L	1.0	0.33	1		12/29/19 23:09	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/29/19 23:09	127-18-4	
Toluene	**179**	ug/L	1.0	0.32	1		12/29/19 23:09	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/29/19 23:09	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/29/19 23:09	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/29/19 23:09	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/29/19 23:09	75-01-4	
Xylene (Total)	**300**	ug/L	3.0	1.4	1		12/29/19 23:09	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/29/19 23:09	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/29/19 23:09	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		12/29/19 23:09	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/29/19 23:09	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/29/19 23:09	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		12/29/19 23:09	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		1		12/29/19 23:09	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		12/29/19 23:09	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		1		12/29/19 23:09	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO26-PZM032 **Lab ID: 30341513006** Collected: 12/18/19 10:50 Received: 12/18/19 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D TPH	Analytical Method: EPA 8015D Preparation Method: EPA 3510C								
TPH (C10-C28)	**0.092J**	mg/L	0.10	0.056	1	12/23/19 11:03	12/26/19 18:10		1c
Surrogates									
o-Terphenyl (S)	60	%.	17-90		1	12/23/19 11:03	12/26/19 18:10	84-15-1	
Gasoline Range Organics	Analytical Method: EPA 5030/8015B								
TPH (C06-C10)	**200 U**	ug/L	200	98.0	1		12/23/19 17:35		
Surrogates									
a,a,a-Trifluorotoluene (S)	75	%.	48-131		1		12/23/19 17:35	98-08-8	
4-Bromofluorobenzene (S)	94	%.	80-120		1		12/23/19 17:35	460-00-4	
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/29/19 23:35	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/29/19 23:35	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/29/19 23:35	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/29/19 23:35	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/29/19 23:35	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/29/19 23:35	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/29/19 23:35	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/29/19 23:35	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/29/19 23:35	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/29/19 23:35	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/29/19 23:35	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/29/19 23:35	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/29/19 23:35	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/29/19 23:35	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/29/19 23:35	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/29/19 23:35	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/29/19 23:35	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/29/19 23:35	107-13-1	
Benzene	**0.50J**	ug/L	1.0	0.34	1		12/29/19 23:35	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/29/19 23:35	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/29/19 23:35	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/29/19 23:35	75-25-2	
Bromomethane	**1.9**	ug/L	1.0	0.73	1		12/29/19 23:35	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/29/19 23:35	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/29/19 23:35	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/29/19 23:35	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/29/19 23:35	75-00-3	CH
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/29/19 23:35	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/29/19 23:35	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/29/19 23:35	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/29/19 23:35	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/29/19 23:35	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/29/19 23:35	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/29/19 23:35	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/29/19 23:35	75-09-2	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO26-PZM032 **Lab ID: 30341513006** Collected: 12/18/19 10:50 Received: 12/18/19 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Naphthalene	**48.6**	ug/L	2.0	0.82	1		12/29/19 23:35	91-20-3	C8
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/29/19 23:35	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/29/19 23:35	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		12/29/19 23:35	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/29/19 23:35	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/29/19 23:35	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/29/19 23:35	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/29/19 23:35	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		12/29/19 23:35	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/29/19 23:35	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/29/19 23:35	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		12/29/19 23:35	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/29/19 23:35	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/29/19 23:35	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		12/29/19 23:35	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%.	80-120		1		12/29/19 23:35	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		12/29/19 23:35	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		1		12/29/19 23:35	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO63-PZM007 **Lab ID: 30341513007** Collected: 12/18/19 12:35 Received: 12/18/19 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	2.7	5		12/30/19 04:43	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 04:43	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 04:43	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 04:43	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 04:43	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 04:43	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/30/19 04:43	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/30/19 04:43	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/30/19 04:43	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 04:43	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 04:43	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 04:43	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 04:43	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/30/19 04:43	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/30/19 04:43	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/30/19 04:43	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		12/30/19 04:43	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/30/19 04:43	107-13-1	
Benzene	**419**	ug/L	5.0	1.7	5		12/30/19 04:43	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 04:43	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 04:43	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/30/19 04:43	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		12/30/19 04:43	74-83-9	B
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 04:43	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/30/19 04:43	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/30/19 04:43	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/30/19 04:43	75-00-3	CH
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 04:43	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 04:43	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/30/19 04:43	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 04:43	74-95-3	
Ethylbenzene	**24.5**	ug/L	5.0	2.0	5		12/30/19 04:43	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/30/19 04:43	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 04:43	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/30/19 04:43	75-09-2	
Naphthalene	**4130**	ug/L	100	41.0	50		12/30/19 01:57	91-20-3	
Styrene	**88.0**	ug/L	5.0	1.6	5		12/30/19 04:43	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 04:43	127-18-4	
Toluene	**257**	ug/L	5.0	1.6	5		12/30/19 04:43	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/30/19 04:43	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/30/19 04:43	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/30/19 04:43	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 04:43	75-01-4	
Xylene (Total)	**477**	ug/L	15.0	6.8	5		12/30/19 04:43	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 04:43	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 04:43	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO63-PZM007 **Lab ID: 30341513007** Collected: 12/18/19 12:35 Received: 12/18/19 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	1.4	5		12/30/19 04:43	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 04:43	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/30/19 04:43	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		12/30/19 04:43	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	80-120		5		12/30/19 04:43	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		12/30/19 04:43	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		12/30/19 04:43	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO67-PZM006 **Lab ID: 30341513008** Collected: 12/18/19 14:21 Received: 12/18/19 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	0.55	1		12/30/19 03:01	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 03:01	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/30/19 03:01	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/30/19 03:01	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/30/19 03:01	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/30/19 03:01	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/30/19 03:01	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/30/19 03:01	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/30/19 03:01	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 03:01	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/30/19 03:01	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/30/19 03:01	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/30/19 03:01	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/30/19 03:01	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/30/19 03:01	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/30/19 03:01	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/30/19 03:01	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/30/19 03:01	107-13-1	
Benzene	**259**	ug/L	1.0	0.34	1		12/30/19 03:01	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/30/19 03:01	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/30/19 03:01	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/30/19 03:01	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		12/30/19 03:01	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/30/19 03:01	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/30/19 03:01	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/30/19 03:01	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/30/19 03:01	75-00-3	CH
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/30/19 03:01	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/30/19 03:01	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/30/19 03:01	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/30/19 03:01	74-95-3	
Ethylbenzene	**13.0**	ug/L	1.0	0.40	1		12/30/19 03:01	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/30/19 03:01	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/30/19 03:01	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/30/19 03:01	75-09-2	
Naphthalene	**2030**	ug/L	20.0	8.2	10		12/30/19 00:13	91-20-3	
Styrene	**63.4**	ug/L	1.0	0.33	1		12/30/19 03:01	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/30/19 03:01	127-18-4	
Toluene	**107**	ug/L	1.0	0.32	1		12/30/19 03:01	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 03:01	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/30/19 03:01	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/30/19 03:01	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 03:01	75-01-4	
Xylene (Total)	**267**	ug/L	3.0	1.4	1		12/30/19 03:01	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 03:01	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 03:01	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO67-PZM006 **Lab ID: 30341513008** Collected: 12/18/19 14:21 Received: 12/18/19 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	0.28	1		12/30/19 03:01	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/30/19 03:01	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/30/19 03:01	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		12/30/19 03:01	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%.	80-120		1		12/30/19 03:01	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		1		12/30/19 03:01	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		1		12/30/19 03:01	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO70-PZM005 **Lab ID: 30341513009** Collected: 12/18/19 15:12 Received: 12/18/19 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	0.55	1		12/30/19 00:26	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 00:26	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/30/19 00:26	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/30/19 00:26	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/30/19 00:26	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/30/19 00:26	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/30/19 00:26	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/30/19 00:26	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/30/19 00:26	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 00:26	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/30/19 00:26	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/30/19 00:26	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/30/19 00:26	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/30/19 00:26	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/30/19 00:26	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/30/19 00:26	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/30/19 00:26	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/30/19 00:26	107-13-1	
Benzene	**38.4**	ug/L	1.0	0.34	1		12/30/19 00:26	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/30/19 00:26	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/30/19 00:26	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/30/19 00:26	75-25-2	
Bromomethane	**1.5**	ug/L	1.0	0.73	1		12/30/19 00:26	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/30/19 00:26	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/30/19 00:26	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/30/19 00:26	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/30/19 00:26	75-00-3	CH
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/30/19 00:26	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/30/19 00:26	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/30/19 00:26	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/30/19 00:26	74-95-3	
Ethylbenzene	**2.1**	ug/L	1.0	0.40	1		12/30/19 00:26	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/30/19 00:26	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/30/19 00:26	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/30/19 00:26	75-09-2	
Naphthalene	**280**	ug/L	2.0	0.82	1		12/30/19 00:26	91-20-3	
Styrene	**7.7**	ug/L	1.0	0.33	1		12/30/19 00:26	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/30/19 00:26	127-18-4	
Toluene	**15.4**	ug/L	1.0	0.32	1		12/30/19 00:26	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 00:26	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/30/19 00:26	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/30/19 00:26	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 00:26	75-01-4	
Xylene (Total)	**39.3**	ug/L	3.0	1.4	1		12/30/19 00:26	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 00:26	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 00:26	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO70-PZM005 **Lab ID: 30341513009** Collected: 12/18/19 15:12 Received: 12/18/19 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	0.28	1		12/30/19 00:26	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/30/19 00:26	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/30/19 00:26	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		12/30/19 00:26	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		1		12/30/19 00:26	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		12/30/19 00:26	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		1		12/30/19 00:26	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO71-PZM006 **Lab ID: 30341513010** Collected: 12/18/19 15:39 Received: 12/18/19 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	2.7	5		12/30/19 00:52	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 00:52	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 00:52	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 00:52	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 00:52	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 00:52	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/30/19 00:52	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/30/19 00:52	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/30/19 00:52	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 00:52	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 00:52	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 00:52	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 00:52	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/30/19 00:52	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/30/19 00:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/30/19 00:52	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		12/30/19 00:52	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/30/19 00:52	107-13-1	
Benzene	**77.6**	ug/L	5.0	1.7	5		12/30/19 00:52	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 00:52	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 00:52	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/30/19 00:52	75-25-2	
Bromomethane	**6.7**	ug/L	5.0	3.6	5		12/30/19 00:52	74-83-9	B
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 00:52	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/30/19 00:52	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/30/19 00:52	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/30/19 00:52	75-00-3	CH
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 00:52	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 00:52	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/30/19 00:52	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 00:52	74-95-3	
Ethylbenzene	**4.8J**	ug/L	5.0	2.0	5		12/30/19 00:52	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/30/19 00:52	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 00:52	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/30/19 00:52	75-09-2	
Naphthalene	**95.7**	ug/L	10.0	4.1	5		12/30/19 00:52	91-20-3	
Styrene	**14.6**	ug/L	5.0	1.6	5		12/30/19 00:52	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 00:52	127-18-4	
Toluene	**38.0**	ug/L	5.0	1.6	5		12/30/19 00:52	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/30/19 00:52	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/30/19 00:52	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/30/19 00:52	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 00:52	75-01-4	
Xylene (Total)	**101**	ug/L	15.0	6.8	5		12/30/19 00:52	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 00:52	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 00:52	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO71-PZM006 **Lab ID: 30341513010** Collected: 12/18/19 15:39 Received: 12/18/19 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	1.4	5		12/30/19 00:52	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 00:52	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/30/19 00:52	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		5		12/30/19 00:52	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%.	80-120		5		12/30/19 00:52	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		5		12/30/19 00:52	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		5		12/30/19 00:52	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO65-PZM005 **Lab ID: 30341513011** Collected: 12/18/19 15:51 Received: 12/18/19 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	2.7	5		12/30/19 05:09	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 05:09	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 05:09	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 05:09	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 05:09	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 05:09	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/30/19 05:09	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/30/19 05:09	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/30/19 05:09	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 05:09	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 05:09	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 05:09	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 05:09	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/30/19 05:09	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/30/19 05:09	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/30/19 05:09	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		12/30/19 05:09	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/30/19 05:09	107-13-1	
Benzene	**392**	ug/L	5.0	1.7	5		12/30/19 05:09	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 05:09	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 05:09	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/30/19 05:09	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		12/30/19 05:09	74-83-9	B
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 05:09	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/30/19 05:09	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/30/19 05:09	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/30/19 05:09	75-00-3	CH
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 05:09	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 05:09	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/30/19 05:09	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 05:09	74-95-3	
Ethylbenzene	**19.0**	ug/L	5.0	2.0	5		12/30/19 05:09	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/30/19 05:09	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 05:09	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/30/19 05:09	75-09-2	
Naphthalene	**4280**	ug/L	100	41.0	50		12/30/19 02:22	91-20-3	
Styrene	**92.0**	ug/L	5.0	1.6	5		12/30/19 05:09	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 05:09	127-18-4	
Toluene	**235**	ug/L	5.0	1.6	5		12/30/19 05:09	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/30/19 05:09	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/30/19 05:09	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/30/19 05:09	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 05:09	75-01-4	
Xylene (Total)	**393**	ug/L	15.0	6.8	5		12/30/19 05:09	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 05:09	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 05:09	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO65-PZM005 **Lab ID: 30341513011** Collected: 12/18/19 15:51 Received: 12/18/19 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	1.4	5		12/30/19 05:09	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 05:09	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/30/19 05:09	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		5		12/30/19 05:09	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%.	80-120		5		12/30/19 05:09	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		5		12/30/19 05:09	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		5		12/30/19 05:09	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO72-PZM005 **Lab ID: 30341513012** Collected: 12/18/19 16:00 Received: 12/18/19 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	**10.0 U**	ug/L	10.0	5.5	10		12/30/19 01:18	630-20-6	
1,1,1-Trichloroethane	**10.0 U**	ug/L	10.0	3.8	10		12/30/19 01:18	71-55-6	
1,1,2,2-Tetrachloroethane	**10.0 U**	ug/L	10.0	4.7	10		12/30/19 01:18	79-34-5	
1,1,2-Trichloroethane	**10.0 U**	ug/L	10.0	3.3	10		12/30/19 01:18	79-00-5	
1,1-Dichloroethane	**10.0 U**	ug/L	10.0	2.4	10		12/30/19 01:18	75-34-3	
1,1-Dichloroethene	**10.0 U**	ug/L	10.0	2.4	10		12/30/19 01:18	75-35-4	
1,2,3-Trichloropropane	**10.0 U**	ug/L	10.0	5.8	10		12/30/19 01:18	96-18-4	
1,2-Dibromo-3-chloropropane	**50.0 U**	ug/L	50.0	5.5	10		12/30/19 01:18	96-12-8	
1,2-Dibromoethane (EDB)	**10.0 U**	ug/L	10.0	4.4	10		12/30/19 01:18	106-93-4	
1,2-Dichlorobenzene	**10.0 U**	ug/L	10.0	3.8	10		12/30/19 01:18	95-50-1	
1,2-Dichloroethane	**10.0 U**	ug/L	10.0	3.3	10		12/30/19 01:18	107-06-2	
1,2-Dichloropropane	**10.0 U**	ug/L	10.0	2.8	10		12/30/19 01:18	78-87-5	
1,4-Dichlorobenzene	**10.0 U**	ug/L	10.0	4.8	10		12/30/19 01:18	106-46-7	
2-Butanone (MEK)	**100 U**	ug/L	100	15.2	10		12/30/19 01:18	78-93-3	
2-Hexanone	**100 U**	ug/L	100	5.8	10		12/30/19 01:18	591-78-6	
4-Methyl-2-pentanone (MIBK)	**100 U**	ug/L	100	4.2	10		12/30/19 01:18	108-10-1	
Acetone	**100 U**	ug/L	100	56.1	10		12/30/19 01:18	67-64-1	
Acrylonitrile	**40.0 U**	ug/L	40.0	5.5	10		12/30/19 01:18	107-13-1	
Benzene	**319**	ug/L	10.0	3.4	10		12/30/19 01:18	71-43-2	
Bromochloromethane	**10.0 U**	ug/L	10.0	4.8	10		12/30/19 01:18	74-97-5	
Bromodichloromethane	**10.0 U**	ug/L	10.0	3.5	10		12/30/19 01:18	75-27-4	
Bromoform	**10.0 U**	ug/L	10.0	5.6	10		12/30/19 01:18	75-25-2	
Bromomethane	**12.2**	ug/L	10.0	7.3	10		12/30/19 01:18	74-83-9	B
Carbon disulfide	**10.0 U**	ug/L	10.0	3.2	10		12/30/19 01:18	75-15-0	
Carbon tetrachloride	**10.0 U**	ug/L	10.0	4.4	10		12/30/19 01:18	56-23-5	
Chlorobenzene	**10.0 U**	ug/L	10.0	2.6	10		12/30/19 01:18	108-90-7	
Chloroethane	**10.0 U**	ug/L	10.0	6.4	10		12/30/19 01:18	75-00-3	CH
Chloroform	**10.0 U**	ug/L	10.0	3.9	10		12/30/19 01:18	67-66-3	
Chloromethane	**10.0 U**	ug/L	10.0	4.0	10		12/30/19 01:18	74-87-3	
Dibromochloromethane	**10.0 U**	ug/L	10.0	4.3	10		12/30/19 01:18	124-48-1	
Dibromomethane	**10.0 U**	ug/L	10.0	3.4	10		12/30/19 01:18	74-95-3	
Ethylbenzene	**11.3**	ug/L	10.0	4.0	10		12/30/19 01:18	100-41-4	
Iodomethane	**500 U**	ug/L	500	5.2	10		12/30/19 01:18	74-88-4	
Methyl-tert-butyl ether	**10.0 U**	ug/L	10.0	2.5	10		12/30/19 01:18	1634-04-4	
Methylene Chloride	**10.0 U**	ug/L	10.0	6.4	10		12/30/19 01:18	75-09-2	
Naphthalene	**3250**	ug/L	20.0	8.2	10		12/30/19 01:18	91-20-3	
Styrene	**78.2**	ug/L	10.0	3.3	10		12/30/19 01:18	100-42-5	
Tetrachloroethene	**10.0 U**	ug/L	10.0	3.9	10		12/30/19 01:18	127-18-4	
Toluene	**113**	ug/L	10.0	3.2	10		12/30/19 01:18	108-88-3	
Trichloroethene	**10.0 U**	ug/L	10.0	2.9	10		12/30/19 01:18	79-01-6	
Trichlorofluoromethane	**10.0 U**	ug/L	10.0	5.1	10		12/30/19 01:18	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	5.7	10		12/30/19 01:18	108-05-4	
Vinyl chloride	**10.0 U**	ug/L	10.0	2.9	10		12/30/19 01:18	75-01-4	
Xylene (Total)	**266**	ug/L	30.0	13.5	10		12/30/19 01:18	1330-20-7	
cis-1,2-Dichloroethene	**10.0 U**	ug/L	10.0	3.8	10		12/30/19 01:18	156-59-2	
cis-1,3-Dichloropropene	**10.0 U**	ug/L	10.0	2.9	10		12/30/19 01:18	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO72-PZM005 **Lab ID: 30341513012** Collected: 12/18/19 16:00 Received: 12/18/19 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	**10.0 U**	ug/L	10.0	2.8	10		12/30/19 01:18	156-60-5	
trans-1,3-Dichloropropene	**10.0 U**	ug/L	10.0	3.2	10		12/30/19 01:18	10061-02-6	
trans-1,4-Dichloro-2-butene	**50.0 U**	ug/L	50.0	5.8	10		12/30/19 01:18	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		10		12/30/19 01:18	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%.	80-120		10		12/30/19 01:18	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		10		12/30/19 01:18	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		10		12/30/19 01:18	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO68-PZM005 **Lab ID: 30341513013** Collected: 12/18/19 16:16 Received: 12/18/19 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	0.55	1		12/30/19 03:26	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 03:26	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/30/19 03:26	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/30/19 03:26	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/30/19 03:26	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/30/19 03:26	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/30/19 03:26	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/30/19 03:26	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/30/19 03:26	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 03:26	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/30/19 03:26	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/30/19 03:26	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/30/19 03:26	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/30/19 03:26	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/30/19 03:26	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/30/19 03:26	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/30/19 03:26	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/30/19 03:26	107-13-1	
Benzene	**316**	ug/L	1.0	0.34	1		12/30/19 03:26	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/30/19 03:26	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/30/19 03:26	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/30/19 03:26	75-25-2	
Bromomethane	**0.85J**	ug/L	1.0	0.73	1		12/30/19 03:26	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/30/19 03:26	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/30/19 03:26	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/30/19 03:26	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/30/19 03:26	75-00-3	CH
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/30/19 03:26	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/30/19 03:26	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/30/19 03:26	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/30/19 03:26	74-95-3	
Ethylbenzene	**13.4**	ug/L	1.0	0.40	1		12/30/19 03:26	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/30/19 03:26	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/30/19 03:26	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/30/19 03:26	75-09-2	
Naphthalene	**2270**	ug/L	40.0	16.4	20		12/30/19 00:39	91-20-3	
Styrene	**82.3**	ug/L	1.0	0.33	1		12/30/19 03:26	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/30/19 03:26	127-18-4	
Toluene	**148**	ug/L	1.0	0.32	1		12/30/19 03:26	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 03:26	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/30/19 03:26	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/30/19 03:26	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 03:26	75-01-4	
Xylene (Total)	**290**	ug/L	3.0	1.4	1		12/30/19 03:26	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 03:26	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 03:26	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO68-PZM005 **Lab ID: 30341513013** Collected: 12/18/19 16:16 Received: 12/18/19 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	0.28	1		12/30/19 03:26	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/30/19 03:26	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/30/19 03:26	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		12/30/19 03:26	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%.	80-120		1		12/30/19 03:26	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		12/30/19 03:26	2037-26-5	
Dibromofluoromethane (S)	94	%.	80-120		1		12/30/19 03:26	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.: 30341513

Sample: CO66-PZM005 **Lab ID: 30341513014** Collected: 12/18/19 16:27 Received: 12/18/19 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	**10.0 U**	ug/L	10.0	5.5	10		12/30/19 01:44	630-20-6	
1,1,1-Trichloroethane	**10.0 U**	ug/L	10.0	3.8	10		12/30/19 01:44	71-55-6	
1,1,2,2-Tetrachloroethane	**10.0 U**	ug/L	10.0	4.7	10		12/30/19 01:44	79-34-5	
1,1,2-Trichloroethane	**10.0 U**	ug/L	10.0	3.3	10		12/30/19 01:44	79-00-5	
1,1-Dichloroethane	**10.0 U**	ug/L	10.0	2.4	10		12/30/19 01:44	75-34-3	
1,1-Dichloroethene	**10.0 U**	ug/L	10.0	2.4	10		12/30/19 01:44	75-35-4	
1,2,3-Trichloropropane	**10.0 U**	ug/L	10.0	5.8	10		12/30/19 01:44	96-18-4	
1,2-Dibromo-3-chloropropane	**50.0 U**	ug/L	50.0	5.5	10		12/30/19 01:44	96-12-8	
1,2-Dibromoethane (EDB)	**10.0 U**	ug/L	10.0	4.4	10		12/30/19 01:44	106-93-4	
1,2-Dichlorobenzene	**10.0 U**	ug/L	10.0	3.8	10		12/30/19 01:44	95-50-1	
1,2-Dichloroethane	**10.0 U**	ug/L	10.0	3.3	10		12/30/19 01:44	107-06-2	
1,2-Dichloropropane	**10.0 U**	ug/L	10.0	2.8	10		12/30/19 01:44	78-87-5	
1,4-Dichlorobenzene	**10.0 U**	ug/L	10.0	4.8	10		12/30/19 01:44	106-46-7	
2-Butanone (MEK)	**100 U**	ug/L	100	15.2	10		12/30/19 01:44	78-93-3	
2-Hexanone	**100 U**	ug/L	100	5.8	10		12/30/19 01:44	591-78-6	
4-Methyl-2-pentanone (MIBK)	**100 U**	ug/L	100	4.2	10		12/30/19 01:44	108-10-1	
Acetone	**100 U**	ug/L	100	56.1	10		12/30/19 01:44	67-64-1	
Acrylonitrile	**40.0 U**	ug/L	40.0	5.5	10		12/30/19 01:44	107-13-1	
Benzene	**260**	ug/L	10.0	3.4	10		12/30/19 01:44	71-43-2	
Bromochloromethane	**10.0 U**	ug/L	10.0	4.8	10		12/30/19 01:44	74-97-5	
Bromodichloromethane	**10.0 U**	ug/L	10.0	3.5	10		12/30/19 01:44	75-27-4	
Bromoform	**10.0 U**	ug/L	10.0	5.6	10		12/30/19 01:44	75-25-2	
Bromomethane	**7.9J**	ug/L	10.0	7.3	10		12/30/19 01:44	74-83-9	B
Carbon disulfide	**10.0 U**	ug/L	10.0	3.2	10		12/30/19 01:44	75-15-0	
Carbon tetrachloride	**10.0 U**	ug/L	10.0	4.4	10		12/30/19 01:44	56-23-5	
Chlorobenzene	**10.0 U**	ug/L	10.0	2.6	10		12/30/19 01:44	108-90-7	
Chloroethane	**10.0 U**	ug/L	10.0	6.4	10		12/30/19 01:44	75-00-3	CH
Chloroform	**10.0 U**	ug/L	10.0	3.9	10		12/30/19 01:44	67-66-3	
Chloromethane	**10.0 U**	ug/L	10.0	4.0	10		12/30/19 01:44	74-87-3	
Dibromochloromethane	**10.0 U**	ug/L	10.0	4.3	10		12/30/19 01:44	124-48-1	
Dibromomethane	**10.0 U**	ug/L	10.0	3.4	10		12/30/19 01:44	74-95-3	
Ethylbenzene	**13.3**	ug/L	10.0	4.0	10		12/30/19 01:44	100-41-4	
Iodomethane	**500 U**	ug/L	500	5.2	10		12/30/19 01:44	74-88-4	
Methyl-tert-butyl ether	**10.0 U**	ug/L	10.0	2.5	10		12/30/19 01:44	1634-04-4	
Methylene Chloride	**10.0 U**	ug/L	10.0	6.4	10		12/30/19 01:44	75-09-2	
Naphthalene	**2920**	ug/L	20.0	8.2	10		12/30/19 01:44	91-20-3	
Styrene	**56.3**	ug/L	10.0	3.3	10		12/30/19 01:44	100-42-5	
Tetrachloroethene	**10.0 U**	ug/L	10.0	3.9	10		12/30/19 01:44	127-18-4	
Toluene	**126**	ug/L	10.0	3.2	10		12/30/19 01:44	108-88-3	
Trichloroethene	**10.0 U**	ug/L	10.0	2.9	10		12/30/19 01:44	79-01-6	
Trichlorofluoromethane	**10.0 U**	ug/L	10.0	5.1	10		12/30/19 01:44	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	5.7	10		12/30/19 01:44	108-05-4	
Vinyl chloride	**10.0 U**	ug/L	10.0	2.9	10		12/30/19 01:44	75-01-4	
Xylene (Total)	**274**	ug/L	30.0	13.5	10		12/30/19 01:44	1330-20-7	
cis-1,2-Dichloroethene	**10.0 U**	ug/L	10.0	3.8	10		12/30/19 01:44	156-59-2	
cis-1,3-Dichloropropene	**10.0 U**	ug/L	10.0	2.9	10		12/30/19 01:44	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341513

Sample: CO66-PZM005 **Lab ID: 30341513014** Collected: 12/18/19 16:27 Received: 12/18/19 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	**10.0 U**	ug/L	10.0	2.8	10		12/30/19 01:44	156-60-5	
trans-1,3-Dichloropropene	**10.0 U**	ug/L	10.0	3.2	10		12/30/19 01:44	10061-02-6	
trans-1,4-Dichloro-2-butene	**50.0 U**	ug/L	50.0	5.8	10		12/30/19 01:44	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	78-122		10		12/30/19 01:44	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%.	80-120		10		12/30/19 01:44	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		10		12/30/19 01:44	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		10		12/30/19 01:44	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341513

QC Batch: 376764 Analysis Method: EPA 5030/8015B
QC Batch Method: EPA 5030/8015B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 30341513005, 30341513006

METHOD BLANK: 1827695 Matrix: Water
Associated Lab Samples: 30341513005, 30341513006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C10)	ug/L	200 U	200	98.0	12/23/19 16:38	
4-Bromofluorobenzene (S)	%.	94	80-120		12/23/19 16:38	
a,a,a-Trifluorotoluene (S)	%.	74	48-131		12/23/19 16:38	

LABORATORY CONTROL SAMPLE: 1827696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C10)	ug/L	1000	853	85	66-129	
4-Bromofluorobenzene (S)	%.			94	80-120	
a,a,a-Trifluorotoluene (S)	%.			89	48-131	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1827697 1827698

Parameter	Units	30341986003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C06-C10)	ug/L	109J	1000	1000	1170	958	106	85	51-126	20	25	
4-Bromofluorobenzene (S)	%.						95	95	80-120			
a,a,a-Trifluorotoluene (S)	%.						118	91	48-131			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341513

QC Batch: 377309 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30341513001, 30341513002

METHOD BLANK: 1830007 Matrix: Water
Associated Lab Samples: 30341513001, 30341513002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	12/27/19 12:57	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	12/27/19 12:57	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	12/27/19 12:57	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	12/27/19 12:57	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	12/27/19 12:57	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	12/27/19 12:57	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	12/27/19 12:57	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	12/27/19 12:57	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	12/27/19 12:57	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	12/27/19 12:57	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	12/27/19 12:57	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	12/27/19 12:57	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	12/27/19 12:57	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	12/27/19 12:57	
2-Hexanone	ug/L	10.0 U	10.0	0.58	12/27/19 12:57	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	12/27/19 12:57	
Acetone	ug/L	10.0 U	10.0	5.6	12/27/19 12:57	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	12/27/19 12:57	
Benzene	ug/L	1.0 U	1.0	0.34	12/27/19 12:57	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	12/27/19 12:57	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	12/27/19 12:57	
Bromoform	ug/L	1.0 U	1.0	0.56	12/27/19 12:57	
Bromomethane	ug/L	1.2	1.0	0.73	12/27/19 12:57	B
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/27/19 12:57	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	12/27/19 12:57	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	12/27/19 12:57	
Chloroethane	ug/L	1.0 U	1.0	0.64	12/27/19 12:57	
Chloroform	ug/L	1.0 U	1.0	0.39	12/27/19 12:57	
Chloromethane	ug/L	1.0 U	1.0	0.40	12/27/19 12:57	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	12/27/19 12:57	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	12/27/19 12:57	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	12/27/19 12:57	
Dibromomethane	ug/L	1.0 U	1.0	0.34	12/27/19 12:57	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	12/27/19 12:57	
Iodomethane	ug/L	50.0 U	50.0	0.52	12/27/19 12:57	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	12/27/19 12:57	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	12/27/19 12:57	
Naphthalene	ug/L	2.0 U	2.0	0.82	12/27/19 12:57	
Styrene	ug/L	1.0 U	1.0	0.33	12/27/19 12:57	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	12/27/19 12:57	
Toluene	ug/L	1.0 U	1.0	0.32	12/27/19 12:57	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341513

METHOD BLANK: 1830007 Matrix: Water
Associated Lab Samples: 30341513001, 30341513002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	12/27/19 12:57	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	12/27/19 12:57	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	12/27/19 12:57	
Trichloroethene	ug/L	1.0 U	1.0	0.29	12/27/19 12:57	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	12/27/19 12:57	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	12/27/19 12:57	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	12/27/19 12:57	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	12/27/19 12:57	
1,2-Dichloroethane-d4 (S)	%.	101	80-120		12/27/19 12:57	
4-Bromofluorobenzene (S)	%.	101	78-122		12/27/19 12:57	
Dibromofluoromethane (S)	%.	101	80-120		12/27/19 12:57	
Toluene-d8 (S)	%.	92	80-120		12/27/19 12:57	

LABORATORY CONTROL SAMPLE: 1830008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.7	113	70-130	
1,1,1-Trichloroethane	ug/L	20	21.5	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	24.4	122	70-130	
1,1,2-Trichloroethane	ug/L	20	21.6	108	70-130	
1,1-Dichloroethane	ug/L	20	22.2	111	68-121	
1,1-Dichloroethene	ug/L	20	17.1	85	63-129	
1,2,3-Trichloropropane	ug/L	20	22.2	111	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.9	89	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	22.4	112	70-130	
1,2-Dichlorobenzene	ug/L	20	23.3	116	70-130	
1,2-Dichloroethane	ug/L	20	20.8	104	67-117	
1,2-Dichloropropane	ug/L	20	23.6	118	69-121	
1,4-Dichlorobenzene	ug/L	20	23.2	116	70-130	
2-Butanone (MEK)	ug/L	20	18.1	90	59-128	
2-Hexanone	ug/L	20	24.0	120	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	24.8	124	63-126	
Acetone	ug/L	20	26.5	133	37-150	
Acrylonitrile	ug/L	20	20.4	102	62-128	
Benzene	ug/L	20	20.8	104	70-130	
Bromochloromethane	ug/L	20	21.2	106	59-137	
Bromodichloromethane	ug/L	20	20.7	104	70-130	
Bromoform	ug/L	20	16.5	82	65-130	
Bromomethane	ug/L	20	12.7	63	45-148	B
Carbon disulfide	ug/L	20	14.7	74	55-123	
Carbon tetrachloride	ug/L	20	20.6	103	69-126	
Chlorobenzene	ug/L	20	23.9	119	70-130	
Chloroethane	ug/L	20	19.2	96	68-146	
Chloroform	ug/L	20	19.4	97	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341513

LABORATORY CONTROL SAMPLE: 1830008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	20.4	102	56-129	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	66-118	
cis-1,3-Dichloropropene	ug/L	20	18.7	93	70-130	
Dibromochloromethane	ug/L	20	18.9	94	70-130	
Dibromomethane	ug/L	20	19.6	98	70-130	
Ethylbenzene	ug/L	20	23.7	119	70-130	
Iodomethane	ug/L	20	15.7J	78	10-175	
Methyl-tert-butyl ether	ug/L	20	18.8	94	70-130	
Methylene Chloride	ug/L	20	23.7	118	65-124	
Naphthalene	ug/L	20	22.7	114	69-135	
Styrene	ug/L	20	24.1	121	70-130	
Tetrachloroethene	ug/L	20	22.9	115	70-130	
Toluene	ug/L	20	22.4	112	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.2	111	64-123	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	16.2	81	37-119	
Trichloroethene	ug/L	20	22.8	114	70-130	
Trichlorofluoromethane	ug/L	20	22.3	111	64-163	
Vinyl acetate	ug/L	20	20.5	102	45-129	
Vinyl chloride	ug/L	20	20.3	101	70-130	
Xylene (Total)	ug/L	60	69.0	115	70-130	
1,2-Dichloroethane-d4 (S)	%.			98	80-120	
4-Bromofluorobenzene (S)	%.			97	78-122	
Dibromofluoromethane (S)	%.			103	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1830328 1830329

Parameter	Units	30340800006 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	18.1	18.9	91	94	52-123	4	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	19.6	18.8	98	94	67-127	4	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.6	20.2	93	101	55-118	9	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.2	19.1	96	96	60-117	0	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	19.5	18.9	98	95	68-118	3	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	18.8	17.6	94	88	62-126	6	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	17.9	18.1	89	90	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	12.4	13.2	62	66	46-130	6	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.0	18.0	90	90	69-124	0	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	18.6	19.3	93	97	66-116	4	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	16.7	16.7	84	84	67-117	0	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	20.7	20.4	104	102	61-128	2	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	19.1	19.8	95	99	68-116	4	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	13.9	18.9	69	95	63-175	31	30	R1

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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.: 30341513

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1830328 1830329

Parameter	Units	30340800006 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	18.6	95	93	65-151	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	20.8	19.5	104	97	66-149	7	30	
Acetone	ug/L	10.0 U	20	20	19.4	19.3	93	92	10-175	0	30	
Acrylonitrile	ug/L	4.0 U	20	20	21.0	19.8	105	99	42-165	6	30	
Benzene	ug/L	0.54J	20	20	20.7	18.7	101	91	67-119	10	30	
Bromochloromethane	ug/L	1.0 U	20	20	19.9	18.0	100	90	64-124	10	30	
Bromodichloromethane	ug/L	1.0 U	20	20	16.1	15.7	80	79	67-126	2	30	
Bromoform	ug/L	1.0 U	20	20	11.7	12.1	58	60	43-114	3	30	
Bromomethane	ug/L	0.88J	20	20	2.3	3.0	7	11	10-164	26	30	B,ML
Carbon disulfide	ug/L	1.0 U	20	20	15.9	14.9	80	74	37-135	7	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	18.2	17.2	91	86	60-137	5	30	
Chlorobenzene	ug/L	1.0 U	20	20	20.7	20.7	103	104	68-119	0	30	
Chloroethane	ug/L	1.0 U	20	20	25.2	22.7	126	113	54-169	11	30	
Chloroform	ug/L	1.0 U	20	20	17.8	17.0	89	85	69-113	5	30	
Chloromethane	ug/L	1.0 U	20	20	14.0	14.6	70	73	43-159	4	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.8	18.4	99	92	65-121	7	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.5	15.5	82	77	61-120	6	30	
Dibromochloromethane	ug/L	1.0 U	20	20	14.7	13.6	73	68	56-121	7	30	
Dibromomethane	ug/L	1.0 U	20	20	17.6	17.2	88	86	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	20.5	20.0	103	100	69-127	3	30	
Iodomethane	ug/L	50.0 U	20	20	2.5J	8.3J	13	41	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	17.3	16.8	86	84	70-130	3	30	
Methylene Chloride	ug/L	1.0 U	20	20	20.2	18.8	101	94	49-144	7	30	
Naphthalene	ug/L	30.5	20	20	18.6	19.8	-59	-54	60-136	6	30	ML
Styrene	ug/L	1.0 U	20	20	20.3	20.3	101	102	65-120	0	30	
Tetrachloroethene	ug/L	1.0 U	20	20	19.8	19.6	99	98	64-123	1	30	
Toluene	ug/L	0.33J	20	20	20.0	19.8	98	97	70-130	1	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.2	18.6	96	93	66-119	3	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.3	14.8	82	74	52-117	10	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	7.3	7.8	36	39	13-100	7	30	
Trichloroethene	ug/L	1.0 U	20	20	20.6	19.9	103	99	63-125	4	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	23.5	23.2	117	116	43-186	1	30	
Vinyl acetate	ug/L	1.0 U	20	20	15.6	15.3	78	76	35-150	2	30	
Vinyl chloride	ug/L	1.0 U	20	20	17.6	17.5	88	87	60-133	1	30	
Xylene (Total)	ug/L	1.4J	60	60	61.2	60.7	100	99	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%.						95	91	80-120			
4-Bromofluorobenzene (S)	%.						97	102	78-122			
Dibromofluoromethane (S)	%.						100	97	80-120			
Toluene-d8 (S)	%.						98	96	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341513

QC Batch: 377396 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30341513003, 30341513004, 30341513005, 30341513006, 30341513007, 30341513008, 30341513009, 30341513010, 30341513011, 30341513012, 30341513013, 30341513014

METHOD BLANK: 1830530 Matrix: Water
Associated Lab Samples: 30341513003, 30341513004, 30341513005, 30341513006, 30341513007, 30341513008, 30341513009, 30341513010, 30341513011, 30341513012, 30341513013, 30341513014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	12/29/19 22:17	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	12/29/19 22:17	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	12/29/19 22:17	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	12/29/19 22:17	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	12/29/19 22:17	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	12/29/19 22:17	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	12/29/19 22:17	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	12/29/19 22:17	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	12/29/19 22:17	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	12/29/19 22:17	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	12/29/19 22:17	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	12/29/19 22:17	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	12/29/19 22:17	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	12/29/19 22:17	
2-Hexanone	ug/L	10.0 U	10.0	0.58	12/29/19 22:17	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	12/29/19 22:17	
Acetone	ug/L	10.0 U	10.0	5.6	12/29/19 22:17	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	12/29/19 22:17	
Benzene	ug/L	1.0 U	1.0	0.34	12/29/19 22:17	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	12/29/19 22:17	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	12/29/19 22:17	
Bromoform	ug/L	1.0 U	1.0	0.56	12/29/19 22:17	
Bromomethane	ug/L	1.5	1.0	0.73	12/29/19 22:17	B
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/29/19 22:17	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	12/29/19 22:17	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	12/29/19 22:17	
Chloroethane	ug/L	1.0 U	1.0	0.64	12/29/19 22:17	CH
Chloroform	ug/L	1.0 U	1.0	0.39	12/29/19 22:17	
Chloromethane	ug/L	1.0 U	1.0	0.40	12/29/19 22:17	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	12/29/19 22:17	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	12/29/19 22:17	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	12/29/19 22:17	
Dibromomethane	ug/L	1.0 U	1.0	0.34	12/29/19 22:17	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	12/29/19 22:17	
Iodomethane	ug/L	50.0 U	50.0	0.52	12/29/19 22:17	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	12/29/19 22:17	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	12/29/19 22:17	
Naphthalene	ug/L	2.0 U	2.0	0.82	12/29/19 22:17	
Styrene	ug/L	1.0 U	1.0	0.33	12/29/19 22:17	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	12/29/19 22:17	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341513

METHOD BLANK: 1830530 Matrix: Water

Associated Lab Samples: 30341513003, 30341513004, 30341513005, 30341513006, 30341513007, 30341513008, 30341513009, 30341513010, 30341513011, 30341513012, 30341513013, 30341513014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.32	12/29/19 22:17	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	12/29/19 22:17	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	12/29/19 22:17	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	12/29/19 22:17	
Trichloroethene	ug/L	1.0 U	1.0	0.29	12/29/19 22:17	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	12/29/19 22:17	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	12/29/19 22:17	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	12/29/19 22:17	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	12/29/19 22:17	
1,2-Dichloroethane-d4 (S)	%.	88	80-120		12/29/19 22:17	
4-Bromofluorobenzene (S)	%.	97	78-122		12/29/19 22:17	
Dibromofluoromethane (S)	%.	98	80-120		12/29/19 22:17	
Toluene-d8 (S)	%.	93	80-120		12/29/19 22:17	

LABORATORY CONTROL SAMPLE: 1830531

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	18.4	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.5	108	70-130	
1,1,2-Trichloroethane	ug/L	20	20.1	101	70-130	
1,1-Dichloroethane	ug/L	20	19.3	96	68-121	
1,1-Dichloroethene	ug/L	20	13.6	68	63-129	
1,2,3-Trichloropropane	ug/L	20	19.6	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	16.4	82	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	19.5	98	70-130	
1,2-Dichlorobenzene	ug/L	20	21.3	106	70-130	
1,2-Dichloroethane	ug/L	20	17.2	86	67-117	
1,2-Dichloropropane	ug/L	20	20.2	101	69-121	
1,4-Dichlorobenzene	ug/L	20	21.2	106	70-130	
2-Butanone (MEK)	ug/L	20	17.4	87	59-128	
2-Hexanone	ug/L	20	22.2	111	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	22.5	113	63-126	
Acetone	ug/L	20	19.5	98	37-150	
Acrylonitrile	ug/L	20	20.5	102	62-128	
Benzene	ug/L	20	18.4	92	70-130	
Bromochloromethane	ug/L	20	19.6	98	59-137	
Bromodichloromethane	ug/L	20	18.2	91	70-130	
Bromoform	ug/L	20	16.5	82	65-130	
Bromomethane	ug/L	20	18.3	91	45-148	B
Carbon disulfide	ug/L	20	13.6	68	55-123	
Carbon tetrachloride	ug/L	20	17.1	86	69-126	
Chlorobenzene	ug/L	20	20.5	102	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341513

LABORATORY CONTROL SAMPLE: 1830531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	25.9	130	68-146	CH
Chloroform	ug/L	20	18.0	90	69-116	
Chloromethane	ug/L	20	17.3	86	56-129	
cis-1,2-Dichloroethene	ug/L	20	18.9	94	66-118	
cis-1,3-Dichloropropene	ug/L	20	17.8	89	70-130	
Dibromochloromethane	ug/L	20	17.6	88	70-130	
Dibromomethane	ug/L	20	18.7	93	70-130	
Ethylbenzene	ug/L	20	20.9	104	70-130	
Iodomethane	ug/L	20	9.5J	47	10-175	
Methyl-tert-butyl ether	ug/L	20	18.6	93	70-130	
Methylene Chloride	ug/L	20	19.7	99	65-124	
Naphthalene	ug/L	20	21.1	106	69-135	
Styrene	ug/L	20	21.8	109	70-130	
Tetrachloroethene	ug/L	20	19.3	97	70-130	
Toluene	ug/L	20	20.1	101	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	64-123	
trans-1,3-Dichloropropene	ug/L	20	17.2	86	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	18.8	94	37-119	
Trichloroethene	ug/L	20	19.9	99	70-130	
Trichlorofluoromethane	ug/L	20	23.1	116	64-163	
Vinyl acetate	ug/L	20	18.3	92	45-129	
Vinyl chloride	ug/L	20	17.5	88	70-130	
Xylene (Total)	ug/L	60	60.7	101	70-130	
1,2-Dichloroethane-d4 (S)	%.			85	80-120	
4-Bromofluorobenzene (S)	%.			94	78-122	
Dibromofluoromethane (S)	%.			101	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1830532 1830533

Parameter	Units	30341834008 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	17.5	81	88	52-123	8	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	17.2	17.7	86	88	67-127	3	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.4	18.5	87	92	55-118	6	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	17.5	18.3	88	92	60-117	4	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	17.1	18.1	86	90	68-118	5	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	12.4	12.9	62	64	62-126	4	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	15.9	16.5	79	83	56-129	4	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	10.7	11.6	54	58	46-130	7	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	16.6	17.3	83	86	69-124	4	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	16.4	18.0	82	90	66-116	9	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	15.1	16.1	75	81	67-117	7	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	17.6	18.9	88	94	61-128	7	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341513

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1830532 1830533

Parameter	Units	30341834008 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	16.7	18.1	84	90	68-116	8	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	15.2	16.1	76	81	63-175	6	30	
2-Hexanone	ug/L	10.0 U	20	20	17.6	18.3	88	91	65-151	4	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	17.9	18.3	89	92	66-149	2	30	
Acetone	ug/L	10.0 U	20	20	12.2	15.2	61	76	10-175	22	30	
Acrylonitrile	ug/L	4.0 U	20	20	18.7	17.7	93	88	42-165	6	30	
Benzene	ug/L	1.8	20	20	21.9	19.8	100	90	67-119	10	30	
Bromochloromethane	ug/L	1.0 U	20	20	18.4	18.7	92	93	64-124	1	30	
Bromodichloromethane	ug/L	1.0 U	20	20	14.0	14.3	70	71	67-126	2	30	
Bromoform	ug/L	1.0 U	20	20	10.4	11.5	52	58	43-114	10	30	
Bromomethane	ug/L	0.98J	20	20	4.1	4.7	16	19	10-164	12	30	B
Carbon disulfide	ug/L	1.0 U	20	20	10.1	10.4	50	52	37-135	4	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	15.6	16.5	78	82	60-137	6	30	
Chlorobenzene	ug/L	1.0 U	20	20	17.9	19.3	89	97	68-119	8	30	
Chloroethane	ug/L	1.0 U	20	20	24.4	30.3	122	151	54-169	21	30	CH
Chloroform	ug/L	1.0 U	20	20	15.8	16.7	79	83	69-113	5	30	
Chloromethane	ug/L	1.0 U	20	20	13.5	14.4	67	72	43-159	7	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.7	17.7	83	88	65-121	6	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	13.5	13.2	68	66	61-120	2	30	
Dibromochloromethane	ug/L	1.0 U	20	20	12.9	13.4	64	67	56-121	4	30	
Dibromomethane	ug/L	1.0 U	20	20	16.3	16.0	81	80	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	18.1	18.7	90	94	69-127	4	30	
Iodomethane	ug/L	50.0 U	20	20	6.1J	10.8J	30	54	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	13.3	15.6	66	78	70-130	16	30	ML
Methylene Chloride	ug/L	1.0 U	20	20	13.9	17.9	69	89	49-144	25	30	
Naphthalene	ug/L	14.2	20	20	39.0	34.6	124	102	60-136	12	30	
Styrene	ug/L	1.0 U	20	20	18.2	19.4	91	97	65-120	6	30	
Tetrachloroethene	ug/L	1.0 U	20	20	16.8	18.1	84	90	64-123	7	30	
Toluene	ug/L	0.39J	20	20	19.1	19.0	94	93	70-130	1	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	13.5	17.3	68	87	66-119	25	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.1	14.7	71	74	52-117	4	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	4.3J	4.1J	21	21	13-100		30	
Trichloroethene	ug/L	1.0 U	20	20	17.9	18.0	89	90	63-125	1	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	23.5	24.8	118	124	43-186	5	30	
Vinyl acetate	ug/L	1.0 U	20	20	13.8	13.4	69	67	35-150	3	30	
Vinyl chloride	ug/L	1.0 U	20	20	16.7	17.2	84	86	60-133	3	30	
Xylene (Total)	ug/L	3.0 U	60	60	53.6	56.6	89	94	69-128	5	30	
1,2-Dichloroethane-d4 (S)	%.						93	91	80-120			
4-Bromofluorobenzene (S)	%.						98	101	78-122			
Dibromofluoromethane (S)	%.						100	99	80-120			
Toluene-d8 (S)	%.						98	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

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341513

QC Batch: 376655 Analysis Method: EPA 8015D
QC Batch Method: EPA 3510C Analysis Description: EPA 8015D TPH
Associated Lab Samples: 30341513005, 30341513006

METHOD BLANK: 1827322 Matrix: Water
Associated Lab Samples: 30341513005, 30341513006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C10-C28)	mg/L	0.10 U	0.10	0.056	12/26/19 17:06	
o-Terphenyl (S)	%.	66	17-90		12/26/19 17:06	

LABORATORY CONTROL SAMPLE: 1827323

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C10-C28)	mg/L	1	0.80	80	43-107	
o-Terphenyl (S)	%.			81	17-90	

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.: 30341513

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: 376655

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
B	Analyte was detected in the associated method blank.
C8	Result may be biased high due to carryover from previously analyzed sample.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results 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.: 30341513

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30341513005	**CO26-PZM007**	EPA 3510C	376655	EPA 8015D	376838
30341513006	**CO26-PZM032**	EPA 3510C	376655	EPA 8015D	376838
30341513005	**CO26-PZM007**	EPA 5030/8015B	376764		
30341513006	**CO26-PZM032**	EPA 5030/8015B	376764		
30341513001	**Trip Blank**	EPA 8260B	377309		
30341513002	**CO62-PZM007**	EPA 8260B	377309		
30341513003	**CO61-PZM007**	EPA 8260B	377396		
30341513004	**CO64-PZM006**	EPA 8260B	377396		
30341513005	**CO26-PZM007**	EPA 8260B	377396		
30341513006	**CO26-PZM032**	EPA 8260B	377396		
30341513007	**CO63-PZM007**	EPA 8260B	377396		
30341513008	**CO67-PZM006**	EPA 8260B	377396		
30341513009	**CO70-PZM005**	EPA 8260B	377396		
30341513010	**CO71-PZM006**	EPA 8260B	377396		
30341513011	**CO65-PZM005**	EPA 8260B	377396		
30341513012	**CO72-PZM005**	EPA 8260B	377396		
30341513013	**CO68-PZM005**	EPA 8260B	377396		
30341513014	**CO66-PZM005**	EPA 8260B	377396		

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Page: 1 of 2

on A red 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
To:	jcalenda@enviroanalyticsgroup.com	Purchase Order No.:	EAG-SPT-6989	Pace Quote Reference:	
:	314-620-3056 Fax:	Project Name:	COA IM GW Sampling	Pace Project Manager:	Samantha Bayura
sted Due Date/TAT:	5 Day	Project Number:	190275M-1-2	Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: MD

WO#: 30341513

30341513

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	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	GRO	DRO	Resid	Pace Project No./ Lab I.D.
Trip Blank	WT			12-18-19		—		2				2						X				001
C062-PZM007	WT	G				1051		3				3						X				002
C061-PZM007	WT	G				1118		3				3						X				003
C064-PZM006	WT	G				1213		3				3						X				004
C026-PZM007	WT	G				0935		8	2			6						X	X	X		005
C026-PZM032	WT	G				1050		8	2			6						X	X	X		006
C063-PZM007	WT	G				1235		3				3						X				007
C067-PZM006	WT	G				1421		3				3						X				008
C070-PZM005	WT	G				1512		3				3						X				009
C071-PZM006	WT	G				1539		3				3						X				010
C065-PZM005	WT	G				1551		3				3						X				011
C072-PZM005	WT	G				1600		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] ARM	12-18-19	1640	David L Hillegan Pace	12/18/19	1645				
	David L Hillegan Pace	12/18/19	1985	RDS Pace	12-18-19	1940		Y		
	RDS Pace	12-18-19	2345	Ben Munton	12-18-19	2345	1.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Van Ness

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/18/19

*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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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
- 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: 190275M-1-2

Section C Invoice Information: #_30341513
- 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: 2 of 2

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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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 STAR DATE	COLLECTED COMPOSITE STAR 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.
C068-PZM005	WT	G		12-18-19		1616		3				3						X		013
C066-PZM005	WT	G			1	1627		3				3						X		014

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] ARM	12-18-19	1640	David L Hellegan/Pace	12/18/19	1645				
	David L Hellegan/Pace	12/18/19	1905	RDS Pace	12-18-19	1940		Y		
	RDS Pace	12/18/19	2345	[signature]	12-18-19	2345	1.6	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Tyler Van Ness
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 12/18/19

*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 # #-30341513

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label BLM
LIMS Login BLM

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 1.6 °C Correction Factor: 0 °C Final Temp: 1.6 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# 10D0341 / Date and Initials of person examining contents: BLM 12-19-19
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. No time on sample CO62-PZM007
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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:	✓			14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: (VOA) coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16. Sample CO-26-PZM007 organics have a pH > 10
All containers meet method preservation requirements. BM 12-19-19	✓	✓		Initial when completed BLM / Date/time of preservation: / Lot # of added preservative:
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad 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 30, 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.: 30341582

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on December 19, 2019. 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.: 30341582

Pace Analytical Services Pennsylvania
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
Florida: Cert E871149 SEKS WET
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.: 30341582

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30341582001	**Trip Blank**	Water	12/17/19 00:01	12/19/19 11:00
30341582002	**C043-PZM048**	Water	12/17/19 10:15	12/19/19 11:00
30341582003	**C044-PZM048**	Water	12/17/19 11:02	12/19/19 11:00
30341582004	**C045-PZM047**	Water	12/17/19 11:46	12/19/19 11:00
30341582005	**C046-PZM047**	Water	12/17/19 12:35	12/19/19 11:00
30341582006	**C047-PZM046**	Water	12/17/19 13:30	12/19/19 11:00
30341582007	**C048-PZM044**	Water	12/17/19 14:02	12/19/19 11:00

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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30341582

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30341582001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30341582002	**C043-PZM048**	EPA 8260B	LEL	53	PASI-PA
30341582003	**C044-PZM048**	EPA 8260B	LEL	53	PASI-PA
30341582004	**C045-PZM047**	EPA 8260B	LEL	53	PASI-PA
30341582005	**C046-PZM047**	EPA 8260B	LEL	53	PASI-PA
30341582006	**C047-PZM046**	EPA 8260B	LEL	53	PASI-PA
30341582007	**C048-PZM044**	EPA 8260B	LEL	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.: 30341582

Sample: Trip Blank **Lab ID: 30341582001** Collected: 12/17/19 00:01 Received: 12/19/19 11:00 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	0.55	1		12/27/19 13:49	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 13:49	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/27/19 13:49	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 13:49	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 13:49	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 13:49	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/27/19 13:49	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/27/19 13:49	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 13:49	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 13:49	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 13:49	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/27/19 13:49	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 13:49	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/27/19 13:49	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/27/19 13:49	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/27/19 13:49	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/27/19 13:49	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/27/19 13:49	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		12/27/19 13:49	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 13:49	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/27/19 13:49	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/27/19 13:49	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		12/27/19 13:49	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 13:49	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 13:49	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/27/19 13:49	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 13:49	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 13:49	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/19 13:49	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/27/19 13:49	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/19 13:49	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/27/19 13:49	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/27/19 13:49	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/27/19 13:49	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 13:49	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/27/19 13:49	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 13:49	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 13:49	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 13:49	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 13:49	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/27/19 13:49	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/27/19 13:49	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 13:49	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		12/27/19 13:49	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 13:49	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 13:49	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341582

Sample: Trip Blank **Lab ID: 30341582001** Collected: 12/17/19 00:01 Received: 12/19/19 11:00 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	0.28	1		12/27/19 13:49	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 13:49	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/27/19 13:49	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		12/27/19 13:49	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		1		12/27/19 13:49	17060-07-0	
Toluene-d8 (S)	92	%.	80-120		1		12/27/19 13:49	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		1		12/27/19 13:49	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341582

Sample: C043-PZM048 **Lab ID: 30341582002** Collected: 12/17/19 10:15 Received: 12/19/19 11:00 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	0.55	1		12/27/19 16:48	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 16:48	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/27/19 16:48	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 16:48	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 16:48	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 16:48	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/27/19 16:48	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/27/19 16:48	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 16:48	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 16:48	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 16:48	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/27/19 16:48	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 16:48	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/27/19 16:48	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/27/19 16:48	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/27/19 16:48	108-10-1	
Acetone	**8.0J**	ug/L	10.0	5.6	1		12/27/19 16:48	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/27/19 16:48	107-13-1	
Benzene	**9850**	ug/L	100	33.8	100		12/27/19 23:23	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 16:48	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/27/19 16:48	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/27/19 16:48	75-25-2	
Bromomethane	**0.82J**	ug/L	1.0	0.73	1		12/27/19 16:48	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 16:48	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 16:48	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/27/19 16:48	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 16:48	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 16:48	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/19 16:48	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/27/19 16:48	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/19 16:48	74-95-3	
Ethylbenzene	**18.2**	ug/L	1.0	0.40	1		12/27/19 16:48	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/27/19 16:48	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/27/19 16:48	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 16:48	75-09-2	
Naphthalene	**141**	ug/L	2.0	0.82	1		12/27/19 16:48	91-20-3	
Styrene	**1.5**	ug/L	1.0	0.33	1		12/27/19 16:48	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 16:48	127-18-4	
Toluene	**53.4**	ug/L	1.0	0.32	1		12/27/19 16:48	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 16:48	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/27/19 16:48	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/27/19 16:48	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 16:48	75-01-4	
Xylene (Total)	**146**	ug/L	3.0	1.4	1		12/27/19 16:48	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 16:48	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 16:48	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341582

Sample: C043-PZM048 **Lab ID: 30341582002** Collected: 12/17/19 10:15 Received: 12/19/19 11:00 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	0.28	1		12/27/19 16:48	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 16:48	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/27/19 16:48	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		12/27/19 16:48	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%.	80-120		1		12/27/19 16:48	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		12/27/19 16:48	2037-26-5	
Dibromofluoromethane (S)	90	%.	80-120		1		12/27/19 16:48	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341582

Sample: C044-PZM048 **Lab ID: 30341582003** Collected: 12/17/19 11:02 Received: 12/19/19 11:00 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	0.55	1		12/27/19 15:06	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 15:06	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/27/19 15:06	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 15:06	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 15:06	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 15:06	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/27/19 15:06	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/27/19 15:06	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 15:06	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 15:06	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 15:06	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/27/19 15:06	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 15:06	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/27/19 15:06	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/27/19 15:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/27/19 15:06	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/27/19 15:06	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/27/19 15:06	107-13-1	
Benzene	**4960**	ug/L	100	33.8	100		12/27/19 21:03	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 15:06	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/27/19 15:06	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/27/19 15:06	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		12/27/19 15:06	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 15:06	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 15:06	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/27/19 15:06	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 15:06	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 15:06	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/19 15:06	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/27/19 15:06	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/19 15:06	74-95-3	
Ethylbenzene	**20.3**	ug/L	1.0	0.40	1		12/27/19 15:06	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/27/19 15:06	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/27/19 15:06	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 15:06	75-09-2	
Naphthalene	**182**	ug/L	2.0	0.82	1		12/27/19 15:06	91-20-3	
Styrene	**3.7**	ug/L	1.0	0.33	1		12/27/19 15:06	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 15:06	127-18-4	
Toluene	**85.9**	ug/L	1.0	0.32	1		12/27/19 15:06	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 15:06	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/27/19 15:06	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/27/19 15:06	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 15:06	75-01-4	
Xylene (Total)	**149**	ug/L	3.0	1.4	1		12/27/19 15:06	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 15:06	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 15:06	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341582

Sample: C044-PZM048 **Lab ID: 30341582003** Collected: 12/17/19 11:02 Received: 12/19/19 11:00 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	0.28	1		12/27/19 15:06	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 15:06	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/27/19 15:06	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	78-122		1		12/27/19 15:06	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	80-120		1		12/27/19 15:06	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		12/27/19 15:06	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		1		12/27/19 15:06	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341582

Sample: C045-PZM047 **Lab ID: 30341582004** Collected: 12/17/19 11:46 Received: 12/19/19 11:00 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	0.55	1		12/27/19 17:14	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 17:14	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/27/19 17:14	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 17:14	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 17:14	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 17:14	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/27/19 17:14	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/27/19 17:14	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 17:14	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 17:14	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 17:14	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/27/19 17:14	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 17:14	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/27/19 17:14	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/27/19 17:14	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/27/19 17:14	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/27/19 17:14	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/27/19 17:14	107-13-1	
Benzene	**201**	ug/L	1.0	0.34	1		12/27/19 17:14	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 17:14	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/27/19 17:14	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/27/19 17:14	75-25-2	
Bromomethane	**1.0**	ug/L	1.0	0.73	1		12/27/19 17:14	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 17:14	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 17:14	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/27/19 17:14	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 17:14	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 17:14	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/19 17:14	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/27/19 17:14	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/19 17:14	74-95-3	
Ethylbenzene	**1.1**	ug/L	1.0	0.40	1		12/27/19 17:14	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/27/19 17:14	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/27/19 17:14	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 17:14	75-09-2	
Naphthalene	**7.2**	ug/L	2.0	0.82	1		12/27/19 17:14	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 17:14	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 17:14	127-18-4	
Toluene	**0.49J**	ug/L	1.0	0.32	1		12/27/19 17:14	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 17:14	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/27/19 17:14	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/27/19 17:14	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 17:14	75-01-4	
Xylene (Total)	**1.7J**	ug/L	3.0	1.4	1		12/27/19 17:14	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 17:14	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 17:14	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341582

Sample: C045-PZM047 **Lab ID: 30341582004** Collected: 12/17/19 11:46 Received: 12/19/19 11:00 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	0.28	1		12/27/19 17:14	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 17:14	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/27/19 17:14	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		12/27/19 17:14	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		1		12/27/19 17:14	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		12/27/19 17:14	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		1		12/27/19 17:14	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341582

Sample: C046-PZM047 **Lab ID: 30341582005** Collected: 12/17/19 12:35 Received: 12/19/19 11:00 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	2.7	5		12/27/19 20:11	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 20:11	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 20:11	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 20:11	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 20:11	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 20:11	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/27/19 20:11	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/27/19 20:11	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/27/19 20:11	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 20:11	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 20:11	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 20:11	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 20:11	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/27/19 20:11	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/27/19 20:11	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/27/19 20:11	108-10-1	
Acetone	**39.7J**	ug/L	50.0	28.0	5		12/27/19 20:11	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/27/19 20:11	107-13-1	
Benzene	**192000**	ug/L	1000	338	1000		12/27/19 22:06	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 20:11	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 20:11	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/27/19 20:11	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		12/27/19 20:11	74-83-9	B
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 20:11	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/27/19 20:11	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/27/19 20:11	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/27/19 20:11	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 20:11	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 20:11	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/27/19 20:11	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 20:11	74-95-3	
Ethylbenzene	**734**	ug/L	5.0	2.0	5		12/27/19 20:11	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/27/19 20:11	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 20:11	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/27/19 20:11	75-09-2	
Naphthalene	**2530**	ug/L	2000	819	1000		12/27/19 22:06	91-20-3	
Styrene	**135**	ug/L	5.0	1.6	5		12/27/19 20:11	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 20:11	127-18-4	
Toluene	**27000**	ug/L	1000	317	1000		12/27/19 22:06	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/27/19 20:11	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/27/19 20:11	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/27/19 20:11	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 20:11	75-01-4	
Xylene (Total)	**6870**	ug/L	3000	1350	1000		12/27/19 22:06	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 20:11	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 20:11	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341582

Sample: C046-PZM047 **Lab ID: 30341582005** Collected: 12/17/19 12:35 Received: 12/19/19 11:00 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	1.4	5		12/27/19 20:11	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 20:11	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/27/19 20:11	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		5		12/27/19 20:11	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	80-120		5		12/27/19 20:11	17060-07-0	
Toluene-d8 (S)	105	%.	80-120		5		12/27/19 20:11	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		5		12/27/19 20:11	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341582

Sample: C047-PZM046 **Lab ID: 30341582006** Collected: 12/17/19 13:30 Received: 12/19/19 11:00 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	2.7	5		12/27/19 18:05	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 18:05	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 18:05	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 18:05	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 18:05	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 18:05	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/27/19 18:05	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/27/19 18:05	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/27/19 18:05	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 18:05	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 18:05	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 18:05	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 18:05	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/27/19 18:05	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/27/19 18:05	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/27/19 18:05	108-10-1	
Acetone	**71.8**	ug/L	50.0	28.0	5		12/27/19 18:05	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/27/19 18:05	107-13-1	
Benzene	**28900**	ug/L	200	67.6	200		12/29/19 22:55	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 18:05	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 18:05	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/27/19 18:05	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		12/27/19 18:05	74-83-9	B
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 18:05	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/27/19 18:05	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/27/19 18:05	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/27/19 18:05	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 18:05	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 18:05	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/27/19 18:05	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 18:05	74-95-3	
Ethylbenzene	**315**	ug/L	5.0	2.0	5		12/27/19 18:05	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/27/19 18:05	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 18:05	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/27/19 18:05	75-09-2	
Naphthalene	**1180**	ug/L	10.0	4.1	5		12/27/19 18:05	91-20-3	
Styrene	**243**	ug/L	5.0	1.6	5		12/27/19 18:05	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 18:05	127-18-4	
Toluene	**7800**	ug/L	50.0	15.8	50		12/27/19 19:59	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/27/19 18:05	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/27/19 18:05	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/27/19 18:05	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 18:05	75-01-4	
Xylene (Total)	**2730**	ug/L	15.0	6.8	5		12/27/19 18:05	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 18:05	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 18:05	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341582

Sample: C047-PZM046 **Lab ID: 30341582006** Collected: 12/17/19 13:30 Received: 12/19/19 11:00 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	1.4	5		12/27/19 18:05	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 18:05	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/27/19 18:05	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		12/27/19 18:05	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%.	80-120		5		12/27/19 18:05	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		12/27/19 18:05	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		5		12/27/19 18:05	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.: 30341582

Sample: C048-PZM044 **Lab ID: 30341582007** Collected: 12/17/19 14:02 Received: 12/19/19 11:00 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	2.7	5		12/27/19 19:46	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 19:46	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 19:46	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 19:46	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 19:46	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 19:46	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/27/19 19:46	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/27/19 19:46	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/27/19 19:46	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 19:46	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 19:46	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 19:46	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 19:46	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/27/19 19:46	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/27/19 19:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/27/19 19:46	108-10-1	
Acetone	**67.8**	ug/L	50.0	28.0	5		12/27/19 19:46	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/27/19 19:46	107-13-1	
Benzene	**13200**	ug/L	500	169	500		12/27/19 21:40	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/19 19:46	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 19:46	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/27/19 19:46	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		12/27/19 19:46	74-83-9	B
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 19:46	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/27/19 19:46	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/27/19 19:46	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/27/19 19:46	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 19:46	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 19:46	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/27/19 19:46	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/19 19:46	74-95-3	
Ethylbenzene	**298**	ug/L	5.0	2.0	5		12/27/19 19:46	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/27/19 19:46	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/27/19 19:46	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/27/19 19:46	75-09-2	
Naphthalene	**1440**	ug/L	10.0	4.1	5		12/27/19 19:46	91-20-3	
Styrene	**442**	ug/L	5.0	1.6	5		12/27/19 19:46	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/27/19 19:46	127-18-4	
Toluene	**7770**	ug/L	500	158	500		12/27/19 21:40	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/27/19 19:46	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/27/19 19:46	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/27/19 19:46	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 19:46	75-01-4	
Xylene (Total)	**2330**	ug/L	15.0	6.8	5		12/27/19 19:46	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/27/19 19:46	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/27/19 19:46	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341582

Sample: C048-PZM044 **Lab ID: 30341582007** Collected: 12/17/19 14:02 Received: 12/19/19 11:00 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	1.4	5		12/27/19 19:46	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/27/19 19:46	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/27/19 19:46	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		5		12/27/19 19:46	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%.	80-120		5		12/27/19 19:46	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		12/27/19 19:46	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		12/27/19 19:46	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341582

QC Batch: 377309 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30341582001, 30341582002, 30341582003, 30341582004, 30341582005, 30341582006, 30341582007

METHOD BLANK: 1830007 Matrix: Water
Associated Lab Samples: 30341582001, 30341582002, 30341582003, 30341582004, 30341582005, 30341582006, 30341582007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	12/27/19 12:57	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	12/27/19 12:57	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	12/27/19 12:57	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	12/27/19 12:57	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	12/27/19 12:57	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	12/27/19 12:57	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	12/27/19 12:57	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	12/27/19 12:57	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	12/27/19 12:57	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	12/27/19 12:57	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	12/27/19 12:57	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	12/27/19 12:57	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	12/27/19 12:57	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	12/27/19 12:57	
2-Hexanone	ug/L	10.0 U	10.0	0.58	12/27/19 12:57	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	12/27/19 12:57	
Acetone	ug/L	10.0 U	10.0	5.6	12/27/19 12:57	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	12/27/19 12:57	
Benzene	ug/L	1.0 U	1.0	0.34	12/27/19 12:57	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	12/27/19 12:57	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	12/27/19 12:57	
Bromoform	ug/L	1.0 U	1.0	0.56	12/27/19 12:57	
Bromomethane	ug/L	1.2	1.0	0.73	12/27/19 12:57	B
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/27/19 12:57	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	12/27/19 12:57	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	12/27/19 12:57	
Chloroethane	ug/L	1.0 U	1.0	0.64	12/27/19 12:57	
Chloroform	ug/L	1.0 U	1.0	0.39	12/27/19 12:57	
Chloromethane	ug/L	1.0 U	1.0	0.40	12/27/19 12:57	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	12/27/19 12:57	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	12/27/19 12:57	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	12/27/19 12:57	
Dibromomethane	ug/L	1.0 U	1.0	0.34	12/27/19 12:57	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	12/27/19 12:57	
Iodomethane	ug/L	50.0 U	50.0	0.52	12/27/19 12:57	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	12/27/19 12:57	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	12/27/19 12:57	
Naphthalene	ug/L	2.0 U	2.0	0.82	12/27/19 12:57	
Styrene	ug/L	1.0 U	1.0	0.33	12/27/19 12:57	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	12/27/19 12:57	
Toluene	ug/L	1.0 U	1.0	0.32	12/27/19 12:57	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341582

METHOD BLANK: 1830007 Matrix: Water
Associated Lab Samples: 30341582001, 30341582002, 30341582003, 30341582004, 30341582005, 30341582006, 30341582007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	12/27/19 12:57	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	12/27/19 12:57	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	12/27/19 12:57	
Trichloroethene	ug/L	1.0 U	1.0	0.29	12/27/19 12:57	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	12/27/19 12:57	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	12/27/19 12:57	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	12/27/19 12:57	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	12/27/19 12:57	
1,2-Dichloroethane-d4 (S)	%.	101	80-120		12/27/19 12:57	
4-Bromofluorobenzene (S)	%.	101	78-122		12/27/19 12:57	
Dibromofluoromethane (S)	%.	101	80-120		12/27/19 12:57	
Toluene-d8 (S)	%.	92	80-120		12/27/19 12:57	

LABORATORY CONTROL SAMPLE: 1830008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.7	113	70-130	
1,1,1-Trichloroethane	ug/L	20	21.5	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	24.4	122	70-130	
1,1,2-Trichloroethane	ug/L	20	21.6	108	70-130	
1,1-Dichloroethane	ug/L	20	22.2	111	68-121	
1,1-Dichloroethene	ug/L	20	17.1	85	63-129	
1,2,3-Trichloropropane	ug/L	20	22.2	111	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.9	89	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	22.4	112	70-130	
1,2-Dichlorobenzene	ug/L	20	23.3	116	70-130	
1,2-Dichloroethane	ug/L	20	20.8	104	67-117	
1,2-Dichloropropane	ug/L	20	23.6	118	69-121	
1,4-Dichlorobenzene	ug/L	20	23.2	116	70-130	
2-Butanone (MEK)	ug/L	20	18.1	90	59-128	
2-Hexanone	ug/L	20	24.0	120	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	24.8	124	63-126	
Acetone	ug/L	20	26.5	133	37-150	
Acrylonitrile	ug/L	20	20.4	102	62-128	
Benzene	ug/L	20	20.8	104	70-130	
Bromochloromethane	ug/L	20	21.2	106	59-137	
Bromodichloromethane	ug/L	20	20.7	104	70-130	
Bromoform	ug/L	20	16.5	82	65-130	
Bromomethane	ug/L	20	12.7	63	45-148	B
Carbon disulfide	ug/L	20	14.7	74	55-123	
Carbon tetrachloride	ug/L	20	20.6	103	69-126	
Chlorobenzene	ug/L	20	23.9	119	70-130	
Chloroethane	ug/L	20	19.2	96	68-146	
Chloroform	ug/L	20	19.4	97	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341582

LABORATORY CONTROL SAMPLE: 1830008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	20.4	102	56-129	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	66-118	
cis-1,3-Dichloropropene	ug/L	20	18.7	93	70-130	
Dibromochloromethane	ug/L	20	18.9	94	70-130	
Dibromomethane	ug/L	20	19.6	98	70-130	
Ethylbenzene	ug/L	20	23.7	119	70-130	
Iodomethane	ug/L	20	15.7J	78	10-175	
Methyl-tert-butyl ether	ug/L	20	18.8	94	70-130	
Methylene Chloride	ug/L	20	23.7	118	65-124	
Naphthalene	ug/L	20	22.7	114	69-135	
Styrene	ug/L	20	24.1	121	70-130	
Tetrachloroethene	ug/L	20	22.9	115	70-130	
Toluene	ug/L	20	22.4	112	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.2	111	64-123	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	16.2	81	37-119	
Trichloroethene	ug/L	20	22.8	114	70-130	
Trichlorofluoromethane	ug/L	20	22.3	111	64-163	
Vinyl acetate	ug/L	20	20.5	102	45-129	
Vinyl chloride	ug/L	20	20.3	101	70-130	
Xylene (Total)	ug/L	60	69.0	115	70-130	
1,2-Dichloroethane-d4 (S)	%.			98	80-120	
4-Bromofluorobenzene (S)	%.			97	78-122	
Dibromofluoromethane (S)	%.			103	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1830328 1830329

Parameter	Units	30340800006 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	18.1	18.9	91	94	52-123	4	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	19.6	18.8	98	94	67-127	4	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.6	20.2	93	101	55-118	9	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.2	19.1	96	96	60-117	0	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	19.5	18.9	98	95	68-118	3	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	18.8	17.6	94	88	62-126	6	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	17.9	18.1	89	90	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	12.4	13.2	62	66	46-130	6	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.0	18.0	90	90	69-124	0	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	18.6	19.3	93	97	66-116	4	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	16.7	16.7	84	84	67-117	0	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	20.7	20.4	104	102	61-128	2	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	19.1	19.8	95	99	68-116	4	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	13.9	18.9	69	95	63-175	31	30	R1

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341582

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1830328 1830329

Parameter	Units	30340800006 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	18.6	95	93	65-151	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	20.8	19.5	104	97	66-149	7	30	
Acetone	ug/L	10.0 U	20	20	19.4	19.3	93	92	10-175	0	30	
Acrylonitrile	ug/L	4.0 U	20	20	21.0	19.8	105	99	42-165	6	30	
Benzene	ug/L	0.54J	20	20	20.7	18.7	101	91	67-119	10	30	
Bromochloromethane	ug/L	1.0 U	20	20	19.9	18.0	100	90	64-124	10	30	
Bromodichloromethane	ug/L	1.0 U	20	20	16.1	15.7	80	79	67-126	2	30	
Bromoform	ug/L	1.0 U	20	20	11.7	12.1	58	60	43-114	3	30	
Bromomethane	ug/L	0.88J	20	20	2.3	3.0	7	11	10-164	26	30	B,ML
Carbon disulfide	ug/L	1.0 U	20	20	15.9	14.9	80	74	37-135	7	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	18.2	17.2	91	86	60-137	5	30	
Chlorobenzene	ug/L	1.0 U	20	20	20.7	20.7	103	104	68-119	0	30	
Chloroethane	ug/L	1.0 U	20	20	25.2	22.7	126	113	54-169	11	30	
Chloroform	ug/L	1.0 U	20	20	17.8	17.0	89	85	69-113	5	30	
Chloromethane	ug/L	1.0 U	20	20	14.0	14.6	70	73	43-159	4	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.8	18.4	99	92	65-121	7	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.5	15.5	82	77	61-120	6	30	
Dibromochloromethane	ug/L	1.0 U	20	20	14.7	13.6	73	68	56-121	7	30	
Dibromomethane	ug/L	1.0 U	20	20	17.6	17.2	88	86	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	20.5	20.0	103	100	69-127	3	30	
Iodomethane	ug/L	50.0 U	20	20	2.5J	8.3J	13	41	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	17.3	16.8	86	84	70-130	3	30	
Methylene Chloride	ug/L	1.0 U	20	20	20.2	18.8	101	94	49-144	7	30	
Naphthalene	ug/L	30.5	20	20	18.6	19.8	-59	-54	60-136	6	30	ML
Styrene	ug/L	1.0 U	20	20	20.3	20.3	101	102	65-120	0	30	
Tetrachloroethene	ug/L	1.0 U	20	20	19.8	19.6	99	98	64-123	1	30	
Toluene	ug/L	0.33J	20	20	20.0	19.8	98	97	70-130	1	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.2	18.6	96	93	66-119	3	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.3	14.8	82	74	52-117	10	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	7.3	7.8	36	39	13-100	7	30	
Trichloroethene	ug/L	1.0 U	20	20	20.6	19.9	103	99	63-125	4	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	23.5	23.2	117	116	43-186	1	30	
Vinyl acetate	ug/L	1.0 U	20	20	15.6	15.3	78	76	35-150	2	30	
Vinyl chloride	ug/L	1.0 U	20	20	17.6	17.5	88	87	60-133	1	30	
Xylene (Total)	ug/L	1.4J	60	60	61.2	60.7	100	99	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%.						95	91	80-120			
4-Bromofluorobenzene (S)	%.						97	102	78-122			
Dibromofluoromethane (S)	%.						100	97	80-120			
Toluene-d8 (S)	%.						98	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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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30341582

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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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30341582

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30341582001	**Trip Blank**	EPA 8260B	377309		
30341582002	**C043-PZM048**	EPA 8260B	377309		
30341582003	**C044-PZM048**	EPA 8260B	377309		
30341582004	**C045-PZM047**	EPA 8260B	377309		
30341582005	**C046-PZM047**	EPA 8260B	377309		
30341582006	**C047-PZM046**	EPA 8260B	377309		
30341582007	**C048-PZM044**	EPA 8260B	377309		

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

Page: 1 of 1

on A red 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
To:	jcalenda@enviroanalyticsgroup.com	Purchase Order No.:	EAG-SPT-6989	Pace Quote Reference:	
:	314-620-3056 Fax:	Project Name:	COA IM GW Sampling	Pace Project Manager:	Samantha Bayura
sted Due Date/TAT:	5 Day	Project Number:	190275M-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)

WO#: 30341582

30341582

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	Resid	Pace Project No./ Lab I.D.
Trip Blank	WT			12-17-19		—		2				2						X		CC1
C043-PZM048	WT	G				1015		3				3						X		CC2
C044-PZM048	WT	G				1102		3				3						X		CC3
C045-PZM047	WT	G				1146		3				3						X		CC4
C046-PZM047	WT	G				1235		3				3						X		CC5
C047-PZM046	WT	G				1320		3				3						X		CC6
C048-PZM044	WT	G				1402		3				3						X		CC7

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)
	Tyler Van Ness ARM	12-17-19	1550	Daniel L Hillegeman/Pace	12/17/19	1659				
	Daniel L Hillegeman/Pace	12/17/19	1530	[signature]	12-19-19	11:00	3.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Van Ness

SIGNATURE of SAMPLER: Tyler Van Ness

DATE Signed (MM/DD/YY): 12/17/19

*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 # 30341582

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Label DL

LIMS Login DM

Tracking #: 7790 3890 7254

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 11 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 3.3 °C Correction Factor: 0 °C Final Temp: 3.3 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: DM 12-19-19

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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: (VOA) coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.
All containers meet method preservation requirements.	✓			Initial when completed DM Date/time of preservation Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad Samples Screened < 0.5 mrem/hr			✓	Initial when completed: DM 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, 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.: 30341834

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on December 19, 2019. 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.: 30341834

Pace Analytical Services Pennsylvania
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
Florida: Cert E871149 SEKS WET
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.: 30341834

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30341834001	**Trip Blank**	Water	12/19/19 00:01	12/19/19 22:45
30341834002	**C069-PZM005**	Water	12/19/19 07:46	12/19/19 22:45
30341834003	**C028-PZM048**	Water	12/19/19 10:37	12/19/19 22:45
30341834004	**C028-PZM010**	Water	12/19/19 11:26	12/19/19 22:45
30341834005	**C027-PZM012**	Water	12/19/19 12:25	12/19/19 22:45
30341834006	**C027-PZM046**	Water	12/19/19 13:14	12/19/19 22:45
30341834007	**C029-PZM010**	Water	12/19/19 14:20	12/19/19 22:45
30341834008	**C029-PZM051**	Water	12/19/19 15:35	12/19/19 22:45

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30341834

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30341834001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30341834002	**C069-PZM005**	EPA 8260B	LEL	53	PASI-PA
30341834003	**C028-PZM048**	EPA 8015D	SEL	2	PASI-PA
		EPA 5030/8015B	LEL	3	PASI-PA
		EPA 8260B	LEL	53	PASI-PA
30341834004	**C028-PZM010**	EPA 8015D	SEL	2	PASI-PA
		EPA 5030/8015B	LEL	3	PASI-PA
		EPA 8260B	LEL	53	PASI-PA
30341834005	**C027-PZM012**	EPA 8015D	SEL	2	PASI-PA
		EPA 5030/8015B	LEL	3	PASI-PA
		EPA 8260B	LEL	53	PASI-PA
30341834006	**C027-PZM046**	EPA 8015D	SEL	2	PASI-PA
		EPA 5030/8015B	LEL	3	PASI-PA
		EPA 8260B	LEL	53	PASI-PA
30341834007	**C029-PZM010**	EPA 8015D	SEL	2	PASI-PA
		EPA 5030/8015B	LEL	3	PASI-PA
		EPA 8260B	LEL	53	PASI-PA
30341834008	**C029-PZM051**	EPA 8015D	SEL	2	PASI-PA
		EPA 5030/8015B	LEL	3	PASI-PA
		EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341834

Sample: Trip Blank **Lab ID: 30341834001** Collected: 12/19/19 00:01 Received: 12/19/19 22:45 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	0.55	1		12/27/19 14:40	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 14:40	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/27/19 14:40	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 14:40	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 14:40	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/27/19 14:40	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/27/19 14:40	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.55	1		12/27/19 14:40	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 14:40	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 14:40	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 14:40	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/27/19 14:40	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 14:40	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1.5	1		12/27/19 14:40	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.58	1		12/27/19 14:40	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.42	1		12/27/19 14:40	108-10-1	
Acetone	ND	ug/L	10.0	5.6	1		12/27/19 14:40	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/27/19 14:40	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		12/27/19 14:40	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/27/19 14:40	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/27/19 14:40	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/27/19 14:40	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		12/27/19 14:40	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 14:40	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/27/19 14:40	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/27/19 14:40	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 14:40	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 14:40	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/19 14:40	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/27/19 14:40	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/19 14:40	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/27/19 14:40	100-41-4	
Iodomethane	ND	ug/L	1.0	0.52	1		12/27/19 14:40	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/27/19 14:40	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/27/19 14:40	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/27/19 14:40	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/27/19 14:40	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/19 14:40	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 14:40	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 14:40	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/27/19 14:40	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.57	1		12/27/19 14:40	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 14:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		12/27/19 14:40	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/27/19 14:40	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/27/19 14:40	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341834

Sample: Trip Blank **Lab ID: 30341834001** Collected: 12/19/19 00:01 Received: 12/19/19 22:45 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	0.28	1		12/27/19 14:40	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/27/19 14:40	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.58	1		12/27/19 14:40	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		12/27/19 14:40	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		1		12/27/19 14:40	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		12/27/19 14:40	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		12/27/19 14:40	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341834

Sample: C069-PZM005 **Lab ID: 30341834002** Collected: 12/19/19 07:46 Received: 12/19/19 22:45 Matrix: Water

Comments: • Unpreserved sample volume has basic pH

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	0.55	1		12/30/19 02:10	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 02:10	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/30/19 02:10	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/30/19 02:10	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/30/19 02:10	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/30/19 02:10	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/30/19 02:10	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/30/19 02:10	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/30/19 02:10	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 02:10	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/30/19 02:10	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/30/19 02:10	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/30/19 02:10	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/30/19 02:10	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/30/19 02:10	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/30/19 02:10	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/30/19 02:10	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/30/19 02:10	107-13-1	
Benzene	**256**	ug/L	1.0	0.34	1		12/30/19 02:10	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/30/19 02:10	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/30/19 02:10	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/30/19 02:10	75-25-2	
Bromomethane	**0.96J**	ug/L	1.0	0.73	1		12/30/19 02:10	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/30/19 02:10	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/30/19 02:10	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/30/19 02:10	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/30/19 02:10	75-00-3	CH
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/30/19 02:10	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/30/19 02:10	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/30/19 02:10	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/30/19 02:10	74-95-3	
Ethylbenzene	**10.8**	ug/L	1.0	0.40	1		12/30/19 02:10	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/30/19 02:10	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/30/19 02:10	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/30/19 02:10	75-09-2	
Naphthalene	**2080**	ug/L	20.0	8.2	10		12/30/19 23:30	91-20-3	
Styrene	**63.2**	ug/L	1.0	0.33	1		12/30/19 02:10	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/30/19 02:10	127-18-4	
Toluene	**107**	ug/L	1.0	0.32	1		12/30/19 02:10	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 02:10	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/30/19 02:10	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/30/19 02:10	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 02:10	75-01-4	
Xylene (Total)	**227**	ug/L	3.0	1.4	1		12/30/19 02:10	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 02:10	156-59-2	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341834

Sample: C069-PZM005 **Lab ID: 30341834002** Collected: 12/19/19 07:46 Received: 12/19/19 22:45 Matrix: Water

Comments: • Unpreserved sample volume has basic pH

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	0.29	1		12/30/19 02:10	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		12/30/19 02:10	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/30/19 02:10	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/30/19 02:10	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		1		12/30/19 02:10	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%.	80-120		1		12/30/19 02:10	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		12/30/19 02:10	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		1		12/30/19 02:10	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341834

Sample: C028-PZM048 **Lab ID: 30341834003** Collected: 12/19/19 10:37 Received: 12/19/19 22:45 Matrix: Water
Comments: • Unpreserved sample volume has basic pH

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D TPH	Analytical Method: EPA 8015D Preparation Method: EPA 3510C								
TPH (C10-C28)	**5.2**	mg/L	1.0	0.58	10	12/23/19 11:03	12/27/19 17:17		1c
Surrogates									
o-Terphenyl (S)	85	%.	17-90		10	12/23/19 11:03	12/27/19 17:17	84-15-1	
Gasoline Range Organics	Analytical Method: EPA 5030/8015B								
TPH (C06-C10)	**283000**	ug/L	20000	9800	100		12/24/19 11:36		
Surrogates									
a,a,a-Trifluorotoluene (S)	75	%.	48-131		100		12/24/19 11:36	98-08-8	
4-Bromofluorobenzene (S)	95	%.	80-120		100		12/24/19 11:36	460-00-4	
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.7	5		12/30/19 06:00	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 06:00	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 06:00	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 06:00	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 06:00	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 06:00	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/30/19 06:00	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/30/19 06:00	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/30/19 06:00	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 06:00	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 06:00	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 06:00	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 06:00	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/30/19 06:00	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/30/19 06:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/30/19 06:00	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		12/30/19 06:00	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/30/19 06:00	107-13-1	
Benzene	**169000**	ug/L	1000	338	1000		12/30/19 03:13	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 06:00	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 06:00	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/30/19 06:00	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		12/30/19 06:00	74-83-9	B
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 06:00	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/30/19 06:00	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/30/19 06:00	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/30/19 06:00	75-00-3	CH
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 06:00	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 06:00	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/30/19 06:00	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 06:00	74-95-3	
Ethylbenzene	**474**	ug/L	5.0	2.0	5		12/30/19 06:00	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/30/19 06:00	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 06:00	1634-04-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341834

Sample: C028-PZM048 **Lab ID: 30341834003** Collected: 12/19/19 10:37 Received: 12/19/19 22:45 Matrix: Water
Comments: • Unpreserved sample volume has basic pH

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/30/19 06:00	75-09-2	
Naphthalene	**12900**	ug/L	2000	819	1000		12/30/19 03:13	91-20-3	
Styrene	**166**	ug/L	5.0	1.6	5		12/30/19 06:00	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 06:00	127-18-4	
Toluene	**10700**	ug/L	1000	317	1000		12/30/19 03:13	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/30/19 06:00	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/30/19 06:00	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/30/19 06:00	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 06:00	75-01-4	
Xylene (Total)	**7160**	ug/L	3000	1350	1000		12/30/19 03:13	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 06:00	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 06:00	10061-01-5	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 06:00	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 06:00	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/30/19 06:00	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	78-122		5		12/30/19 06:00	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	80-120		5		12/30/19 06:00	17060-07-0	
Toluene-d8 (S)	103	%.	80-120		5		12/30/19 06:00	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		12/30/19 06:00	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341834

Sample: C028-PZM010 **Lab ID: 30341834004** Collected: 12/19/19 11:26 Received: 12/19/19 22:45 Matrix: Water
Comments: • Unpreserved sample volume has basic pH

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D TPH	Analytical Method: EPA 8015D Preparation Method: EPA 3510C								
TPH (C10-C28)	**0.093J**	mg/L	0.10	0.057	1	12/23/19 11:03	12/26/19 18:48		1c
Surrogates									
o-Terphenyl (S)	59	%.	17-90		1	12/23/19 11:03	12/26/19 18:48	84-15-1	
Gasoline Range Organics	Analytical Method: EPA 5030/8015B								
TPH (C06-C10)	**200 U**	ug/L	200	98.0	1		12/23/19 18:13		
Surrogates									
a,a,a-Trifluorotoluene (S)	65	%.	48-131		1		12/23/19 18:13	98-08-8	
4-Bromofluorobenzene (S)	94	%.	80-120		1		12/23/19 18:13	460-00-4	
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/30/19 00:00	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 00:00	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/30/19 00:00	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/30/19 00:00	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/30/19 00:00	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/30/19 00:00	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/30/19 00:00	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/30/19 00:00	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/30/19 00:00	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 00:00	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/30/19 00:00	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/30/19 00:00	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/30/19 00:00	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/30/19 00:00	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/30/19 00:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/30/19 00:00	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/30/19 00:00	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/30/19 00:00	107-13-1	
Benzene	**37.1**	ug/L	1.0	0.34	1		12/30/19 00:00	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/30/19 00:00	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/30/19 00:00	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/30/19 00:00	75-25-2	
Bromomethane	**1.7**	ug/L	1.0	0.73	1		12/30/19 00:00	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/30/19 00:00	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/30/19 00:00	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/30/19 00:00	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/30/19 00:00	75-00-3	CH
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/30/19 00:00	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/30/19 00:00	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/30/19 00:00	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/30/19 00:00	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/30/19 00:00	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/30/19 00:00	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/30/19 00:00	1634-04-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341834

Sample: C028-PZM010 **Lab ID: 30341834004** Collected: 12/19/19 11:26 Received: 12/19/19 22:45 Matrix: Water

Comments: • Unpreserved sample volume has basic pH

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/30/19 00:00	75-09-2	
Naphthalene	**10.4**	ug/L	2.0	0.82	1		12/30/19 00:00	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/30/19 00:00	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/30/19 00:00	127-18-4	
Toluene	**2.2**	ug/L	1.0	0.32	1		12/30/19 00:00	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 00:00	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/30/19 00:00	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/30/19 00:00	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 00:00	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		12/30/19 00:00	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 00:00	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 00:00	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		12/30/19 00:00	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/30/19 00:00	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/30/19 00:00	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	78-122		1		12/30/19 00:00	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		1		12/30/19 00:00	17060-07-0	
Toluene-d8 (S)	101	%.	80-120		1		12/30/19 00:00	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		12/30/19 00:00	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341834

Sample: C027-PZM012 **Lab ID: 30341834005** Collected: 12/19/19 12:25 Received: 12/19/19 22:45 Matrix: Water

Comments: • Unpreserved sample volume has basic pH

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D TPH	Analytical Method: EPA 8015D Preparation Method: EPA 3510C								
TPH (C10-C28)	**3.6**	mg/L	0.99	0.55	10	12/23/19 11:03	12/27/19 17:23		1c
Surrogates									
o-Terphenyl (S)	59	%.	17-90		10	12/23/19 11:03	12/27/19 17:23	84-15-1	
Gasoline Range Organics	Analytical Method: EPA 5030/8015B								
TPH (C06-C10)	**29800**	ug/L	2000	980	10		12/24/19 11:55		
Surrogates									
a,a,a-Trifluorotoluene (S)	76	%.	48-131		10		12/24/19 11:55	98-08-8	
4-Bromofluorobenzene (S)	95	%.	80-120		10		12/24/19 11:55	460-00-4	
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.7	5		12/30/19 05:34	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 05:34	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 05:34	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 05:34	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 05:34	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 05:34	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/30/19 05:34	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/30/19 05:34	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/30/19 05:34	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 05:34	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 05:34	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 05:34	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 05:34	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/30/19 05:34	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/30/19 05:34	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/30/19 05:34	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	28.0	5		12/30/19 05:34	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/30/19 05:34	107-13-1	
Benzene	**11600**	ug/L	100	33.8	100		12/30/19 02:48	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/30/19 05:34	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 05:34	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/30/19 05:34	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	3.6	5		12/30/19 05:34	74-83-9	B
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 05:34	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/30/19 05:34	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/30/19 05:34	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/30/19 05:34	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 05:34	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 05:34	74-87-3	CH
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/30/19 05:34	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/30/19 05:34	74-95-3	
Ethylbenzene	**162**	ug/L	5.0	2.0	5		12/30/19 05:34	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/30/19 05:34	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/30/19 05:34	1634-04-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341834

Sample: C027-PZM012 **Lab ID: 30341834005** Collected: 12/19/19 12:25 Received: 12/19/19 22:45 Matrix: Water

Comments: • Unpreserved sample volume has basic pH

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/30/19 05:34	75-09-2	
Naphthalene	**1140**	ug/L	10.0	4.1	5		12/30/19 05:34	91-20-3	
Styrene	**176**	ug/L	5.0	1.6	5		12/30/19 05:34	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/30/19 05:34	127-18-4	
Toluene	**4240**	ug/L	100	31.7	100		12/30/19 02:48	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/30/19 05:34	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/30/19 05:34	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/30/19 05:34	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 05:34	75-01-4	
Xylene (Total)	**1390**	ug/L	15.0	6.8	5		12/30/19 05:34	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/30/19 05:34	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 05:34	10061-01-5	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.4	5		12/30/19 05:34	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/30/19 05:34	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/30/19 05:34	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		5		12/30/19 05:34	460-00-4	
1,2-Dichloroethane-d4 (S)	76	%.	80-120		5		12/30/19 05:34	17060-07-0	SR
Toluene-d8 (S)	96	%.	80-120		5		12/30/19 05:34	2037-26-5	
Dibromofluoromethane (S)	75	%.	80-120		5		12/30/19 05:34	1868-53-7	SR

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341834

Sample: C027-PZM046 **Lab ID: 30341834006** Collected: 12/19/19 13:14 Received: 12/19/19 22:45 Matrix: Water

Comments: • Unpreserved sample volume has basic pH

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D TPH	Analytical Method: EPA 8015D Preparation Method: EPA 3510C								
TPH (C10-C28)	**4.8**	mg/L	1.0	0.56	10	12/23/19 11:03	12/27/19 17:29		1c
Surrogates									
o-Terphenyl (S)	61	%.	17-90		10	12/23/19 11:03	12/27/19 17:29	84-15-1	
Gasoline Range Organics	Analytical Method: EPA 5030/8015B								
TPH (C06-C10)	**65400**	ug/L	4000	1960	20		12/23/19 18:50		
Surrogates									
a,a,a-Trifluorotoluene (S)	70	%.	48-131		20		12/23/19 18:50	98-08-8	
4-Bromofluorobenzene (S)	94	%.	80-120		20		12/23/19 18:50	460-00-4	
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1000 U**	ug/L	1000	546	1000		12/30/19 03:39	630-20-6	
1,1,1-Trichloroethane	**1000 U**	ug/L	1000	375	1000		12/30/19 03:39	71-55-6	
1,1,2,2-Tetrachloroethane	**1000 U**	ug/L	1000	471	1000		12/30/19 03:39	79-34-5	
1,1,2-Trichloroethane	**1000 U**	ug/L	1000	332	1000		12/30/19 03:39	79-00-5	
1,1-Dichloroethane	**1000 U**	ug/L	1000	239	1000		12/30/19 03:39	75-34-3	
1,1-Dichloroethene	**1000 U**	ug/L	1000	239	1000		12/30/19 03:39	75-35-4	
1,2,3-Trichloropropane	**1000 U**	ug/L	1000	585	1000		12/30/19 03:39	96-18-4	
1,2-Dibromo-3-chloropropane	**5000 U**	ug/L	5000	547	1000		12/30/19 03:39	96-12-8	
1,2-Dibromoethane (EDB)	**1000 U**	ug/L	1000	438	1000		12/30/19 03:39	106-93-4	
1,2-Dichlorobenzene	**1000 U**	ug/L	1000	383	1000		12/30/19 03:39	95-50-1	
1,2-Dichloroethane	**1000 U**	ug/L	1000	328	1000		12/30/19 03:39	107-06-2	
1,2-Dichloropropane	**1000 U**	ug/L	1000	281	1000		12/30/19 03:39	78-87-5	
1,4-Dichlorobenzene	**1000 U**	ug/L	1000	478	1000		12/30/19 03:39	106-46-7	
2-Butanone (MEK)	**10000 U**	ug/L	10000	1520	1000		12/30/19 03:39	78-93-3	
2-Hexanone	**10000 U**	ug/L	10000	581	1000		12/30/19 03:39	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10000 U**	ug/L	10000	421	1000		12/30/19 03:39	108-10-1	
Acetone	**10000 U**	ug/L	10000	5610	1000		12/30/19 03:39	67-64-1	
Acrylonitrile	**4000 U**	ug/L	4000	552	1000		12/30/19 03:39	107-13-1	
Benzene	**29800**	ug/L	1000	338	1000		12/30/19 03:39	71-43-2	
Bromochloromethane	**1000 U**	ug/L	1000	479	1000		12/30/19 03:39	74-97-5	
Bromodichloromethane	**1000 U**	ug/L	1000	347	1000		12/30/19 03:39	75-27-4	
Bromoform	**1000 U**	ug/L	1000	563	1000		12/30/19 03:39	75-25-2	
Bromomethane	**1000 U**	ug/L	1000	727	1000		12/30/19 03:39	74-83-9	B
Carbon disulfide	**1000 U**	ug/L	1000	325	1000		12/30/19 03:39	75-15-0	
Carbon tetrachloride	**1000 U**	ug/L	1000	436	1000		12/30/19 03:39	56-23-5	
Chlorobenzene	**1000 U**	ug/L	1000	262	1000		12/30/19 03:39	108-90-7	
Chloroethane	**1000 U**	ug/L	1000	642	1000		12/30/19 03:39	75-00-3	CH
Chloroform	**1000 U**	ug/L	1000	392	1000		12/30/19 03:39	67-66-3	
Chloromethane	**1000 U**	ug/L	1000	405	1000		12/30/19 03:39	74-87-3	
Dibromochloromethane	**1000 U**	ug/L	1000	426	1000		12/30/19 03:39	124-48-1	
Dibromomethane	**1000 U**	ug/L	1000	345	1000		12/30/19 03:39	74-95-3	
Ethylbenzene	**1000 U**	ug/L	1000	398	1000		12/30/19 03:39	100-41-4	
Iodomethane	**50000 U**	ug/L	50000	521	1000		12/30/19 03:39	74-88-4	
Methyl-tert-butyl ether	**1000 U**	ug/L	1000	248	1000		12/30/19 03:39	1634-04-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341834

Sample: C027-PZM046 **Lab ID: 30341834006** Collected: 12/19/19 13:14 Received: 12/19/19 22:45 Matrix: Water

Comments: • Unpreserved sample volume has basic pH

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Methylene Chloride	**1000 U**	ug/L	1000	638	1000		12/30/19 03:39	75-09-2	
Naphthalene	**11200**	ug/L	2000	819	1000		12/30/19 03:39	91-20-3	
Styrene	**1000 U**	ug/L	1000	330	1000		12/30/19 03:39	100-42-5	
Tetrachloroethene	**1000 U**	ug/L	1000	392	1000		12/30/19 03:39	127-18-4	
Toluene	**4850**	ug/L	1000	317	1000		12/30/19 03:39	108-88-3	
Trichloroethene	**1000 U**	ug/L	1000	291	1000		12/30/19 03:39	79-01-6	
Trichlorofluoromethane	**1000 U**	ug/L	1000	506	1000		12/30/19 03:39	75-69-4	
Vinyl acetate	**1000 U**	ug/L	1000	573	1000		12/30/19 03:39	108-05-4	
Vinyl chloride	**1000 U**	ug/L	1000	288	1000		12/30/19 03:39	75-01-4	
Xylene (Total)	**2200J**	ug/L	3000	1350	1000		12/30/19 03:39	1330-20-7	
cis-1,2-Dichloroethene	**1000 U**	ug/L	1000	381	1000		12/30/19 03:39	156-59-2	
cis-1,3-Dichloropropene	**1000 U**	ug/L	1000	289	1000		12/30/19 03:39	10061-01-5	
trans-1,2-Dichloroethene	**1000 U**	ug/L	1000	282	1000		12/30/19 03:39	156-60-5	
trans-1,3-Dichloropropene	**1000 U**	ug/L	1000	322	1000		12/30/19 03:39	10061-02-6	
trans-1,4-Dichloro-2-butene	**5000 U**	ug/L	5000	584	1000		12/30/19 03:39	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	78-122		1000		12/30/19 03:39	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%.	80-120		1000		12/30/19 03:39	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1000		12/30/19 03:39	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		1000		12/30/19 03:39	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.: 30341834

Sample: C029-PZM010 **Lab ID: 30341834007** Collected: 12/19/19 14:20 Received: 12/19/19 22:45 Matrix: Water

Comments: • Unpreserved sample volume has basic pH

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D TPH	Analytical Method: EPA 8015D Preparation Method: EPA 3510C								
TPH (C10-C28)	**0.75**	mg/L	0.099	0.055	1	12/23/19 11:03	12/26/19 19:46		1c
Surrogates									
o-Terphenyl (S)	40	%.	17-90		1	12/23/19 11:03	12/26/19 19:46	84-15-1	
Gasoline Range Organics	Analytical Method: EPA 5030/8015B								
TPH (C06-C10)	**112J**	ug/L	200	98.0	1		12/23/19 19:09		
Surrogates									
a,a,a-Trifluorotoluene (S)	85	%.	48-131		1		12/23/19 19:09	98-08-8	
4-Bromofluorobenzene (S)	95	%.	80-120		1		12/23/19 19:09	460-00-4	
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/30/19 03:52	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 03:52	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/30/19 03:52	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/30/19 03:52	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/30/19 03:52	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/30/19 03:52	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/30/19 03:52	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/30/19 03:52	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/30/19 03:52	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 03:52	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/30/19 03:52	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/30/19 03:52	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/30/19 03:52	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/30/19 03:52	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/30/19 03:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/30/19 03:52	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/30/19 03:52	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/30/19 03:52	107-13-1	
Benzene	**13.8**	ug/L	1.0	0.34	1		12/30/19 03:52	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/30/19 03:52	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/30/19 03:52	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/30/19 03:52	75-25-2	
Bromomethane	**1.1**	ug/L	1.0	0.73	1		12/30/19 03:52	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/30/19 03:52	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/30/19 03:52	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/30/19 03:52	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/30/19 03:52	75-00-3	CH
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/30/19 03:52	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/30/19 03:52	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/30/19 03:52	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/30/19 03:52	74-95-3	
Ethylbenzene	**1.9**	ug/L	1.0	0.40	1		12/30/19 03:52	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/30/19 03:52	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/30/19 03:52	1634-04-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341834

Sample: C029-PZM010 **Lab ID: 30341834007** Collected: 12/19/19 14:20 Received: 12/19/19 22:45 Matrix: Water

Comments: • Unpreserved sample volume has basic pH

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/30/19 03:52	75-09-2	
Naphthalene	**573**	ug/L	40.0	16.4	20		12/30/19 01:05	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/30/19 03:52	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/30/19 03:52	127-18-4	
Toluene	**5.2**	ug/L	1.0	0.32	1		12/30/19 03:52	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 03:52	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/30/19 03:52	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/30/19 03:52	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 03:52	75-01-4	
Xylene (Total)	**14.7**	ug/L	3.0	1.4	1		12/30/19 03:52	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/30/19 03:52	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/30/19 03:52	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		12/30/19 03:52	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/30/19 03:52	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/30/19 03:52	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	78-122		1		12/30/19 03:52	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	80-120		1		12/30/19 03:52	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		12/30/19 03:52	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		12/30/19 03:52	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341834

Sample: C029-PZM051 **Lab ID: 30341834008** Collected: 12/19/19 15:35 Received: 12/19/19 22:45 Matrix: Water
Comments: • Unpreserved sample volume has basic pH

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D TPH	Analytical Method: EPA 8015D Preparation Method: EPA 3510C								
TPH (C10-C28)	**0.38**	mg/L	0.099	0.055	1	12/23/19 11:03	12/26/19 20:05		1c
Surrogates									
o-Terphenyl (S)	55	%.	17-90		1	12/23/19 11:03	12/26/19 20:05	84-15-1	
Gasoline Range Organics	Analytical Method: EPA 5030/8015B								
TPH (C06-C10)	**200 U**	ug/L	200	98.0	1		12/23/19 19:28		
Surrogates									
a,a,a-Trifluorotoluene (S)	74	%.	48-131		1		12/23/19 19:28	98-08-8	
4-Bromofluorobenzene (S)	95	%.	80-120		1		12/23/19 19:28	460-00-4	
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/29/19 22:43	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/29/19 22:43	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/29/19 22:43	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/29/19 22:43	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/29/19 22:43	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/29/19 22:43	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/29/19 22:43	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/29/19 22:43	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/29/19 22:43	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/29/19 22:43	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/29/19 22:43	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/29/19 22:43	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/29/19 22:43	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/29/19 22:43	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/29/19 22:43	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/29/19 22:43	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/29/19 22:43	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/29/19 22:43	107-13-1	
Benzene	**1.8**	ug/L	1.0	0.34	1		12/29/19 22:43	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/29/19 22:43	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/29/19 22:43	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/29/19 22:43	75-25-2	
Bromomethane	**0.98J**	ug/L	1.0	0.73	1		12/29/19 22:43	74-83-9	B
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/29/19 22:43	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/29/19 22:43	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/29/19 22:43	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/29/19 22:43	75-00-3	CH
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/29/19 22:43	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/29/19 22:43	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/29/19 22:43	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/29/19 22:43	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/29/19 22:43	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/29/19 22:43	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/29/19 22:43	1634-04-4	ML

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341834

Sample: C029-PZM051 **Lab ID: 30341834008** Collected: 12/19/19 15:35 Received: 12/19/19 22:45 Matrix: Water

Comments: • Unpreserved sample volume has basic pH

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/29/19 22:43	75-09-2	
Naphthalene	**14.2**	ug/L	2.0	0.82	1		12/29/19 22:43	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/29/19 22:43	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/29/19 22:43	127-18-4	
Toluene	**0.39J**	ug/L	1.0	0.32	1		12/29/19 22:43	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/29/19 22:43	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/29/19 22:43	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/29/19 22:43	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/29/19 22:43	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		12/29/19 22:43	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/29/19 22:43	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/29/19 22:43	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		12/29/19 22:43	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/29/19 22:43	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/29/19 22:43	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		12/29/19 22:43	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	80-120		1		12/29/19 22:43	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		12/29/19 22:43	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		12/29/19 22:43	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341834

QC Batch: 376764 Analysis Method: EPA 5030/8015B
QC Batch Method: EPA 5030/8015B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 30341834003, 30341834004, 30341834005, 30341834006, 30341834007, 30341834008

METHOD BLANK: 1827695 Matrix: Water
Associated Lab Samples: 30341834003, 30341834004, 30341834005, 30341834006, 30341834007, 30341834008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C10)	ug/L	200 U	200	98.0	12/23/19 16:38	
4-Bromofluorobenzene (S)	%.	94	80-120		12/23/19 16:38	
a,a,a-Trifluorotoluene (S)	%.	74	48-131		12/23/19 16:38	

LABORATORY CONTROL SAMPLE: 1827696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C10)	ug/L	1000	853	85	66-129	
4-Bromofluorobenzene (S)	%.			94	80-120	
a,a,a-Trifluorotoluene (S)	%.			89	48-131	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1827697 1827698

Parameter	Units	30341986003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C06-C10)	ug/L	109J	1000	1000	1170	958	106	85	51-126	20	25	
4-Bromofluorobenzene (S)	%.						95	95	80-120			
a,a,a-Trifluorotoluene (S)	%.						118	91	48-131			

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.: 30341834

QC Batch: 377309 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30341834001

METHOD BLANK: 1830007 Matrix: Water
Associated Lab Samples: 30341834001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	12/27/19 12:57	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	12/27/19 12:57	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	12/27/19 12:57	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	12/27/19 12:57	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	12/27/19 12:57	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	12/27/19 12:57	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	12/27/19 12:57	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	12/27/19 12:57	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	12/27/19 12:57	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	12/27/19 12:57	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	12/27/19 12:57	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	12/27/19 12:57	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	12/27/19 12:57	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	12/27/19 12:57	
2-Hexanone	ug/L	10.0 U	10.0	0.58	12/27/19 12:57	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	12/27/19 12:57	
Acetone	ug/L	10.0 U	10.0	5.6	12/27/19 12:57	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	12/27/19 12:57	
Benzene	ug/L	1.0 U	1.0	0.34	12/27/19 12:57	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	12/27/19 12:57	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	12/27/19 12:57	
Bromoform	ug/L	1.0 U	1.0	0.56	12/27/19 12:57	
Bromomethane	ug/L	1.2	1.0	0.73	12/27/19 12:57	B
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/27/19 12:57	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	12/27/19 12:57	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	12/27/19 12:57	
Chloroethane	ug/L	1.0 U	1.0	0.64	12/27/19 12:57	
Chloroform	ug/L	1.0 U	1.0	0.39	12/27/19 12:57	
Chloromethane	ug/L	1.0 U	1.0	0.40	12/27/19 12:57	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	12/27/19 12:57	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	12/27/19 12:57	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	12/27/19 12:57	
Dibromomethane	ug/L	1.0 U	1.0	0.34	12/27/19 12:57	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	12/27/19 12:57	
Iodomethane	ug/L	50.0 U	50.0	0.52	12/27/19 12:57	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	12/27/19 12:57	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	12/27/19 12:57	
Naphthalene	ug/L	2.0 U	2.0	0.82	12/27/19 12:57	
Styrene	ug/L	1.0 U	1.0	0.33	12/27/19 12:57	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	12/27/19 12:57	
Toluene	ug/L	1.0 U	1.0	0.32	12/27/19 12:57	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341834

METHOD BLANK: 1830007 Matrix: Water
Associated Lab Samples: 30341834001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	12/27/19 12:57	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	12/27/19 12:57	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	12/27/19 12:57	
Trichloroethene	ug/L	1.0 U	1.0	0.29	12/27/19 12:57	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	12/27/19 12:57	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	12/27/19 12:57	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	12/27/19 12:57	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	12/27/19 12:57	
1,2-Dichloroethane-d4 (S)	%.	101	80-120		12/27/19 12:57	
4-Bromofluorobenzene (S)	%.	101	78-122		12/27/19 12:57	
Dibromofluoromethane (S)	%.	101	80-120		12/27/19 12:57	
Toluene-d8 (S)	%.	92	80-120		12/27/19 12:57	

LABORATORY CONTROL SAMPLE: 1830008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.7	113	70-130	
1,1,1-Trichloroethane	ug/L	20	21.5	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	24.4	122	70-130	
1,1,2-Trichloroethane	ug/L	20	21.6	108	70-130	
1,1-Dichloroethane	ug/L	20	22.2	111	68-121	
1,1-Dichloroethene	ug/L	20	17.1	85	63-129	
1,2,3-Trichloropropane	ug/L	20	22.2	111	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.9	89	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	22.4	112	70-130	
1,2-Dichlorobenzene	ug/L	20	23.3	116	70-130	
1,2-Dichloroethane	ug/L	20	20.8	104	67-117	
1,2-Dichloropropane	ug/L	20	23.6	118	69-121	
1,4-Dichlorobenzene	ug/L	20	23.2	116	70-130	
2-Butanone (MEK)	ug/L	20	18.1	90	59-128	
2-Hexanone	ug/L	20	24.0	120	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	24.8	124	63-126	
Acetone	ug/L	20	26.5	133	37-150	
Acrylonitrile	ug/L	20	20.4	102	62-128	
Benzene	ug/L	20	20.8	104	70-130	
Bromochloromethane	ug/L	20	21.2	106	59-137	
Bromodichloromethane	ug/L	20	20.7	104	70-130	
Bromoform	ug/L	20	16.5	82	65-130	
Bromomethane	ug/L	20	12.7	63	45-148	B
Carbon disulfide	ug/L	20	14.7	74	55-123	
Carbon tetrachloride	ug/L	20	20.6	103	69-126	
Chlorobenzene	ug/L	20	23.9	119	70-130	
Chloroethane	ug/L	20	19.2	96	68-146	
Chloroform	ug/L	20	19.4	97	69-116	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341834

LABORATORY CONTROL SAMPLE: 1830008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	20.4	102	56-129	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	66-118	
cis-1,3-Dichloropropene	ug/L	20	18.7	93	70-130	
Dibromochloromethane	ug/L	20	18.9	94	70-130	
Dibromomethane	ug/L	20	19.6	98	70-130	
Ethylbenzene	ug/L	20	23.7	119	70-130	
Iodomethane	ug/L	20	15.7J	78	10-175	
Methyl-tert-butyl ether	ug/L	20	18.8	94	70-130	
Methylene Chloride	ug/L	20	23.7	118	65-124	
Naphthalene	ug/L	20	22.7	114	69-135	
Styrene	ug/L	20	24.1	121	70-130	
Tetrachloroethene	ug/L	20	22.9	115	70-130	
Toluene	ug/L	20	22.4	112	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.2	111	64-123	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	16.2	81	37-119	
Trichloroethene	ug/L	20	22.8	114	70-130	
Trichlorofluoromethane	ug/L	20	22.3	111	64-163	
Vinyl acetate	ug/L	20	20.5	102	45-129	
Vinyl chloride	ug/L	20	20.3	101	70-130	
Xylene (Total)	ug/L	60	69.0	115	70-130	
1,2-Dichloroethane-d4 (S)	%.			98	80-120	
4-Bromofluorobenzene (S)	%.			97	78-122	
Dibromofluoromethane (S)	%.			103	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1830328 1830329

Parameter	Units	30340800006 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	18.1	18.9	91	94	52-123	4	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	19.6	18.8	98	94	67-127	4	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.6	20.2	93	101	55-118	9	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.2	19.1	96	96	60-117	0	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	19.5	18.9	98	95	68-118	3	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	18.8	17.6	94	88	62-126	6	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	17.9	18.1	89	90	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	12.4	13.2	62	66	46-130	6	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.0	18.0	90	90	69-124	0	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	18.6	19.3	93	97	66-116	4	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	16.7	16.7	84	84	67-117	0	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	20.7	20.4	104	102	61-128	2	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	19.1	19.8	95	99	68-116	4	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	13.9	18.9	69	95	63-175	31	30	R1

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341834

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1830328 1830329

Parameter	Units	30340800006 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	18.6	95	93	65-151	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	20.8	19.5	104	97	66-149	7	30	
Acetone	ug/L	10.0 U	20	20	19.4	19.3	93	92	10-175	0	30	
Acrylonitrile	ug/L	4.0 U	20	20	21.0	19.8	105	99	42-165	6	30	
Benzene	ug/L	0.54J	20	20	20.7	18.7	101	91	67-119	10	30	
Bromochloromethane	ug/L	1.0 U	20	20	19.9	18.0	100	90	64-124	10	30	
Bromodichloromethane	ug/L	1.0 U	20	20	16.1	15.7	80	79	67-126	2	30	
Bromoform	ug/L	1.0 U	20	20	11.7	12.1	58	60	43-114	3	30	
Bromomethane	ug/L	0.88J	20	20	2.3	3.0	7	11	10-164	26	30	B,ML
Carbon disulfide	ug/L	1.0 U	20	20	15.9	14.9	80	74	37-135	7	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	18.2	17.2	91	86	60-137	5	30	
Chlorobenzene	ug/L	1.0 U	20	20	20.7	20.7	103	104	68-119	0	30	
Chloroethane	ug/L	1.0 U	20	20	25.2	22.7	126	113	54-169	11	30	
Chloroform	ug/L	1.0 U	20	20	17.8	17.0	89	85	69-113	5	30	
Chloromethane	ug/L	1.0 U	20	20	14.0	14.6	70	73	43-159	4	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.8	18.4	99	92	65-121	7	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.5	15.5	82	77	61-120	6	30	
Dibromochloromethane	ug/L	1.0 U	20	20	14.7	13.6	73	68	56-121	7	30	
Dibromomethane	ug/L	1.0 U	20	20	17.6	17.2	88	86	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	20.5	20.0	103	100	69-127	3	30	
Iodomethane	ug/L	50.0 U	20	20	2.5J	8.3J	13	41	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	17.3	16.8	86	84	70-130	3	30	
Methylene Chloride	ug/L	1.0 U	20	20	20.2	18.8	101	94	49-144	7	30	
Naphthalene	ug/L	30.5	20	20	18.6	19.8	-59	-54	60-136	6	30	ML
Styrene	ug/L	1.0 U	20	20	20.3	20.3	101	102	65-120	0	30	
Tetrachloroethene	ug/L	1.0 U	20	20	19.8	19.6	99	98	64-123	1	30	
Toluene	ug/L	0.33J	20	20	20.0	19.8	98	97	70-130	1	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.2	18.6	96	93	66-119	3	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.3	14.8	82	74	52-117	10	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	7.3	7.8	36	39	13-100	7	30	
Trichloroethene	ug/L	1.0 U	20	20	20.6	19.9	103	99	63-125	4	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	23.5	23.2	117	116	43-186	1	30	
Vinyl acetate	ug/L	1.0 U	20	20	15.6	15.3	78	76	35-150	2	30	
Vinyl chloride	ug/L	1.0 U	20	20	17.6	17.5	88	87	60-133	1	30	
Xylene (Total)	ug/L	1.4J	60	60	61.2	60.7	100	99	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%.						95	91	80-120			
4-Bromofluorobenzene (S)	%.						97	102	78-122			
Dibromofluoromethane (S)	%.						100	97	80-120			
Toluene-d8 (S)	%.						98	96	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341834

QC Batch: 377396 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30341834002, 30341834003, 30341834004, 30341834005, 30341834006, 30341834007, 30341834008

METHOD BLANK: 1830530 Matrix: Water
Associated Lab Samples: 30341834002, 30341834003, 30341834004, 30341834005, 30341834006, 30341834007, 30341834008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	12/29/19 22:17	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	12/29/19 22:17	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	12/29/19 22:17	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	12/29/19 22:17	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	12/29/19 22:17	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	12/29/19 22:17	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	12/29/19 22:17	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	12/29/19 22:17	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	12/29/19 22:17	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	12/29/19 22:17	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	12/29/19 22:17	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	12/29/19 22:17	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	12/29/19 22:17	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	12/29/19 22:17	
2-Hexanone	ug/L	10.0 U	10.0	0.58	12/29/19 22:17	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	12/29/19 22:17	
Acetone	ug/L	10.0 U	10.0	5.6	12/29/19 22:17	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	12/29/19 22:17	
Benzene	ug/L	1.0 U	1.0	0.34	12/29/19 22:17	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	12/29/19 22:17	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	12/29/19 22:17	
Bromoform	ug/L	1.0 U	1.0	0.56	12/29/19 22:17	
Bromomethane	ug/L	1.5	1.0	0.73	12/29/19 22:17	B
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/29/19 22:17	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	12/29/19 22:17	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	12/29/19 22:17	
Chloroethane	ug/L	1.0 U	1.0	0.64	12/29/19 22:17	CH
Chloroform	ug/L	1.0 U	1.0	0.39	12/29/19 22:17	
Chloromethane	ug/L	1.0 U	1.0	0.40	12/29/19 22:17	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	12/29/19 22:17	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	12/29/19 22:17	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	12/29/19 22:17	
Dibromomethane	ug/L	1.0 U	1.0	0.34	12/29/19 22:17	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	12/29/19 22:17	
Iodomethane	ug/L	50.0 U	50.0	0.52	12/29/19 22:17	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	12/29/19 22:17	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	12/29/19 22:17	
Naphthalene	ug/L	2.0 U	2.0	0.82	12/29/19 22:17	
Styrene	ug/L	1.0 U	1.0	0.33	12/29/19 22:17	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	12/29/19 22:17	
Toluene	ug/L	1.0 U	1.0	0.32	12/29/19 22:17	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341834

METHOD BLANK: 1830530 Matrix: Water
Associated Lab Samples: 30341834002, 30341834003, 30341834004, 30341834005, 30341834006, 30341834007, 30341834008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	12/29/19 22:17	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	12/29/19 22:17	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	12/29/19 22:17	
Trichloroethene	ug/L	1.0 U	1.0	0.29	12/29/19 22:17	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	12/29/19 22:17	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	12/29/19 22:17	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	12/29/19 22:17	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	12/29/19 22:17	
1,2-Dichloroethane-d4 (S)	%.	88	80-120		12/29/19 22:17	
4-Bromofluorobenzene (S)	%.	97	78-122		12/29/19 22:17	
Dibromofluoromethane (S)	%.	98	80-120		12/29/19 22:17	
Toluene-d8 (S)	%.	93	80-120		12/29/19 22:17	

LABORATORY CONTROL SAMPLE: 1830531

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	18.4	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.5	108	70-130	
1,1,2-Trichloroethane	ug/L	20	20.1	101	70-130	
1,1-Dichloroethane	ug/L	20	19.3	96	68-121	
1,1-Dichloroethene	ug/L	20	13.6	68	63-129	
1,2,3-Trichloropropane	ug/L	20	19.6	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	16.4	82	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	19.5	98	70-130	
1,2-Dichlorobenzene	ug/L	20	21.3	106	70-130	
1,2-Dichloroethane	ug/L	20	17.2	86	67-117	
1,2-Dichloropropane	ug/L	20	20.2	101	69-121	
1,4-Dichlorobenzene	ug/L	20	21.2	106	70-130	
2-Butanone (MEK)	ug/L	20	17.4	87	59-128	
2-Hexanone	ug/L	20	22.2	111	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	22.5	113	63-126	
Acetone	ug/L	20	19.5	98	37-150	
Acrylonitrile	ug/L	20	20.5	102	62-128	
Benzene	ug/L	20	18.4	92	70-130	
Bromochloromethane	ug/L	20	19.6	98	59-137	
Bromodichloromethane	ug/L	20	18.2	91	70-130	
Bromoform	ug/L	20	16.5	82	65-130	
Bromomethane	ug/L	20	18.3	91	45-148	B
Carbon disulfide	ug/L	20	13.6	68	55-123	
Carbon tetrachloride	ug/L	20	17.1	86	69-126	
Chlorobenzene	ug/L	20	20.5	102	70-130	
Chloroethane	ug/L	20	25.9	130	68-146	CH
Chloroform	ug/L	20	18.0	90	69-116	

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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.: 30341834

LABORATORY CONTROL SAMPLE: 1830531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	17.3	86	56-129	
cis-1,2-Dichloroethene	ug/L	20	18.9	94	66-118	
cis-1,3-Dichloropropene	ug/L	20	17.8	89	70-130	
Dibromochloromethane	ug/L	20	17.6	88	70-130	
Dibromomethane	ug/L	20	18.7	93	70-130	
Ethylbenzene	ug/L	20	20.9	104	70-130	
Iodomethane	ug/L	20	9.5J	47	10-175	
Methyl-tert-butyl ether	ug/L	20	18.6	93	70-130	
Methylene Chloride	ug/L	20	19.7	99	65-124	
Naphthalene	ug/L	20	21.1	106	69-135	
Styrene	ug/L	20	21.8	109	70-130	
Tetrachloroethene	ug/L	20	19.3	97	70-130	
Toluene	ug/L	20	20.1	101	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	64-123	
trans-1,3-Dichloropropene	ug/L	20	17.2	86	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	18.8	94	37-119	
Trichloroethene	ug/L	20	19.9	99	70-130	
Trichlorofluoromethane	ug/L	20	23.1	116	64-163	
Vinyl acetate	ug/L	20	18.3	92	45-129	
Vinyl chloride	ug/L	20	17.5	88	70-130	
Xylene (Total)	ug/L	60	60.7	101	70-130	
1,2-Dichloroethane-d4 (S)	%.			85	80-120	
4-Bromofluorobenzene (S)	%.			94	78-122	
Dibromofluoromethane (S)	%.			101	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1830532 1830533

Parameter	Units	30341834008 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	17.5	81	88	52-123	8	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	17.2	17.7	86	88	67-127	3	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.4	18.5	87	92	55-118	6	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	17.5	18.3	88	92	60-117	4	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	17.1	18.1	86	90	68-118	5	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	12.4	12.9	62	64	62-126	4	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	15.9	16.5	79	83	56-129	4	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	10.7	11.6	54	58	46-130	7	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	16.6	17.3	83	86	69-124	4	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	16.4	18.0	82	90	66-116	9	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	15.1	16.1	75	81	67-117	7	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	17.6	18.9	88	94	61-128	7	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	16.7	18.1	84	90	68-116	8	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	15.2	16.1	76	81	63-175	6	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.: 30341834

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1830532 1830533

Parameter	Units	30341834008 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	17.6	18.3	88	91	65-151	4	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	17.9	18.3	89	92	66-149	2	30	
Acetone	ug/L	10.0 U	20	20	12.2	15.2	61	76	10-175	22	30	
Acrylonitrile	ug/L	4.0 U	20	20	18.7	17.7	93	88	42-165	6	30	
Benzene	ug/L	1.8	20	20	21.9	19.8	100	90	67-119	10	30	
Bromochloromethane	ug/L	1.0 U	20	20	18.4	18.7	92	93	64-124	1	30	
Bromodichloromethane	ug/L	1.0 U	20	20	14.0	14.3	70	71	67-126	2	30	
Bromoform	ug/L	1.0 U	20	20	10.4	11.5	52	58	43-114	10	30	
Bromomethane	ug/L	0.98J	20	20	4.1	4.7	16	19	10-164	12	30	B
Carbon disulfide	ug/L	1.0 U	20	20	10.1	10.4	50	52	37-135	4	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	15.6	16.5	78	82	60-137	6	30	
Chlorobenzene	ug/L	1.0 U	20	20	17.9	19.3	89	97	68-119	8	30	
Chloroethane	ug/L	1.0 U	20	20	24.4	30.3	122	151	54-169	21	30	CH
Chloroform	ug/L	1.0 U	20	20	15.8	16.7	79	83	69-113	5	30	
Chloromethane	ug/L	1.0 U	20	20	13.5	14.4	67	72	43-159	7	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.7	17.7	83	88	65-121	6	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	13.5	13.2	68	66	61-120	2	30	
Dibromochloromethane	ug/L	1.0 U	20	20	12.9	13.4	64	67	56-121	4	30	
Dibromomethane	ug/L	1.0 U	20	20	16.3	16.0	81	80	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	18.1	18.7	90	94	69-127	4	30	
Iodomethane	ug/L	50.0 U	20	20	6.1J	10.8J	30	54	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	13.3	15.6	66	78	70-130	16	30	ML
Methylene Chloride	ug/L	1.0 U	20	20	13.9	17.9	69	89	49-144	25	30	
Naphthalene	ug/L	14.2	20	20	39.0	34.6	124	102	60-136	12	30	
Styrene	ug/L	1.0 U	20	20	18.2	19.4	91	97	65-120	6	30	
Tetrachloroethene	ug/L	1.0 U	20	20	16.8	18.1	84	90	64-123	7	30	
Toluene	ug/L	0.39J	20	20	19.1	19.0	94	93	70-130	1	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	13.5	17.3	68	87	66-119	25	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.1	14.7	71	74	52-117	4	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	4.3J	4.1J	21	21	13-100		30	
Trichloroethene	ug/L	1.0 U	20	20	17.9	18.0	89	90	63-125	1	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	23.5	24.8	118	124	43-186	5	30	
Vinyl acetate	ug/L	1.0 U	20	20	13.8	13.4	69	67	35-150	3	30	
Vinyl chloride	ug/L	1.0 U	20	20	16.7	17.2	84	86	60-133	3	30	
Xylene (Total)	ug/L	3.0 U	60	60	53.6	56.6	89	94	69-128	5	30	
1,2-Dichloroethane-d4 (S)	%.						93	91	80-120			
4-Bromofluorobenzene (S)	%.						98	101	78-122			
Dibromofluoromethane (S)	%.						100	99	80-120			
Toluene-d8 (S)	%.						98	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

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341834

QC Batch: 376655 Analysis Method: EPA 8015D
QC Batch Method: EPA 3510C Analysis Description: EPA 8015D TPH
Associated Lab Samples: 30341834003, 30341834004, 30341834005, 30341834006, 30341834007, 30341834008

METHOD BLANK: 1827322 Matrix: Water
Associated Lab Samples: 30341834003, 30341834004, 30341834005, 30341834006, 30341834007, 30341834008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C10-C28)	mg/L	0.10 U	0.10	0.056	12/26/19 17:06	
o-Terphenyl (S)	%.	66	17-90		12/26/19 17:06	

LABORATORY CONTROL SAMPLE: 1827323

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C10-C28)	mg/L	1	0.80	80	43-107	
o-Terphenyl (S)	%.			81	17-90	

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30341834

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: 376655

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
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.
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.
SR	Surrogate recovery was below laboratory control limits. Results 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.: 30341834

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30341834003	**C028-PZM048**	EPA 3510C	376655	EPA 8015D	376838
30341834004	**C028-PZM010**	EPA 3510C	376655	EPA 8015D	376838
30341834005	**C027-PZM012**	EPA 3510C	376655	EPA 8015D	376838
30341834006	**C027-PZM046**	EPA 3510C	376655	EPA 8015D	376838
30341834007	**C029-PZM010**	EPA 3510C	376655	EPA 8015D	376838
30341834008	**C029-PZM051**	EPA 3510C	376655	EPA 8015D	376838
30341834003	**C028-PZM048**	EPA 5030/8015B	376764		
30341834004	**C028-PZM010**	EPA 5030/8015B	376764		
30341834005	**C027-PZM012**	EPA 5030/8015B	376764		
30341834006	**C027-PZM046**	EPA 5030/8015B	376764		
30341834007	**C029-PZM010**	EPA 5030/8015B	376764		
30341834008	**C029-PZM051**	EPA 5030/8015B	376764		
30341834001	**Trip Blank**	EPA 8260B	377309		
30341834002	**C069-PZM005**	EPA 8260B	377396		
30341834003	**C028-PZM048**	EPA 8260B	377396		
30341834004	**C028-PZM010**	EPA 8260B	377396		
30341834005	**C027-PZM012**	EPA 8260B	377396		
30341834006	**C027-PZM046**	EPA 8260B	377396		
30341834007	**C029-PZM010**	EPA 8260B	377396		
30341834008	**C029-PZM051**	EPA 8260B	377396		

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must be completed accurately.

on A red Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page: of
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	REGULATORY AGENCY
Sparrows Point, MD 21219		Address: 1650 Des Peres Road, Suite 303 St. Louis, MO 63131	☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
To: jcalenda@enviroanalyticsgroup.com	Purchase Order No.: EAG-SPT-6989	Pace Quote Reference:	☐ UST ☐ RCRA ☐ OTHER
: 314-620-3056 Fax:	Project Name: COA IM GW Sampling	Pace Project Manager: Samantha Bayura	Site Location STATE: MD
sted Due Date/TAT: 5 Day	Project Number: 190275M-1-2	Pace Profile #:	

WO#: 30341834

30341834

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

Requested Analysis Filtered (Y/N)

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	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	GRO	DRO	Residual Cl	Pace Project No./ Lab I.D.
Trip Blank	WT			12-19-19		–		2				2						X				CC1
C069-PZM005	WT	G				0746		3				3						X				CC2
C028-PZM048	WT	G				1037		8	2			6						X	X	X		CC3
C028-PZM010	WT	G				1126		8	2			6						X	X	X		CC4
C027-PZM012	WT	G				1225		8	2			6						X	X	X		CC5
C027-PZM046	WT	G				1314		8	2			6						X	X	X		CC6
C029-PZM010	WT	G				1420		8	2			6						X	X	X		CC7
C029-PZM051	WT	G				1535		8	2			6						X	X	X		CC8

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] ARM	12-19-19	1615	[signature] Pace	12/19/19	1649				
	[signature] Pace	12/19/19	1855	RDS TACS	12-19-19	1905		Y		
	RDS TACS	[illegible]	[illegible]	[signature]	12-19-19	22:45	SCAV	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Van Ness

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 12/19/19

*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 #: 30341834

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label: DK
LIMS Login: DK

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: 3.4, 5.1 °C Correction Factor: 0 °C Final Temp: 3.4, 5.1 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# 10M0391 / Date and Initials of person examining contents: DK 12-20-19
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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:	✓			14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16. All Organics received with basic pH
All containers meet method preservation requirements.		✓		Initial when completed: DK Date/time of preservation:
				Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓	✓	17. pH 12-20-19
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad Samples Screened < 0.5 mrem/hr	✓			Initial when completed: pH 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, 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.: 30341986

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2019. 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
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Project Manager

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1638 Roseytown Road - Suites 2,3,4
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CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30341986

Pace Analytical Services Pennsylvania
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
Florida: Cert E871149 SEKS WET
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.: 30341986

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30341986001	**Trip Blank**	Water	12/20/19 00:01	12/20/19 22:30
30341986002	**C0030-PZM015**	Water	12/20/19 10:25	12/20/19 22:30
30341986003	**C0030-PZM060**	Water	12/20/19 11:20	12/20/19 22:30

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30341986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30341986001	**Trip Blank**	EPA 5030/8015B	LEL	3	PASI-PA
		EPA 8260B	LEL	53	PASI-PA
30341986002	**C0030-PZM015**	EPA 8015D	SEL	2	PASI-PA
		EPA 5030/8015B	LEL	3	PASI-PA
		EPA 8260B	LEL	53	PASI-PA
30341986003	**C0030-PZM060**	EPA 8015D	SEL	2	PASI-PA
		EPA 5030/8015B	LEL	3	PASI-PA
		EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341986

Sample: Trip Blank **Lab ID: 30341986001** Collected: 12/20/19 00:01 Received: 12/20/19 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030/8015B								
TPH (C06-C10)	**200 U**	ug/L	200	98.0	1		12/23/19 20:06		
Surrogates									
a,a,a-Trifluorotoluene (S)	77	%.	48-131		1		12/23/19 20:06	98-08-8	
4-Bromofluorobenzene (S)	94	%.	80-120		1		12/23/19 20:06	460-00-4	
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/24/19 14:28	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 14:28	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/24/19 14:28	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 14:28	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 14:28	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 14:28	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/24/19 14:28	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/24/19 14:28	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 14:28	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 14:28	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 14:28	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/24/19 14:28	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 14:28	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/24/19 14:28	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.58	1		12/24/19 14:28	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/24/19 14:28	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	5.6	1		12/24/19 14:28	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/24/19 14:28	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 14:28	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 14:28	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/24/19 14:28	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/24/19 14:28	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		12/24/19 14:28	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 14:28	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 14:28	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/24/19 14:28	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 14:28	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 14:28	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 14:28	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/24/19 14:28	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 14:28	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 14:28	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/24/19 14:28	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/24/19 14:28	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 14:28	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/24/19 14:28	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 14:28	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 14:28	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 14:28	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 14:28	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341986

Sample: Trip Blank **Lab ID: 30341986001** Collected: 12/20/19 00:01 Received: 12/20/19 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/24/19 14:28	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/24/19 14:28	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 14:28	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		12/24/19 14:28	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 14:28	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 14:28	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		12/24/19 14:28	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 14:28	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/24/19 14:28	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	78-122		1		12/24/19 14:28	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		12/24/19 14:28	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		12/24/19 14:28	2037-26-5	
Dibromofluoromethane (S)	104	%.	80-120		1		12/24/19 14:28	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341986

Sample: C0030-PZM015 **Lab ID: 30341986002** Collected: 12/20/19 10:25 Received: 12/20/19 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D TPH	Analytical Method: EPA 8015D Preparation Method: EPA 3510C								
TPH (C10-C28)	**4.2**	mg/L	0.99	0.55	10	12/27/19 08:24	12/30/19 19:26		1c
Surrogates									
o-Terphenyl (S)	80	%.	17-90		10	12/27/19 08:24	12/30/19 19:26	84-15-1	
Gasoline Range Organics	Analytical Method: EPA 5030/8015B								
TPH (C06-C10)	**116000**	ug/L	20000	9800	100		12/24/19 12:13		
Surrogates									
a,a,a-Trifluorotoluene (S)	66	%.	48-131		100		12/24/19 12:13	98-08-8	
4-Bromofluorobenzene (S)	96	%.	80-120		100		12/24/19 12:13	460-00-4	
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.7	5		12/24/19 20:29	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 20:29	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 20:29	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 20:29	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 20:29	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 20:29	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.9	5		12/24/19 20:29	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	2.7	5		12/24/19 20:29	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	2.2	5		12/24/19 20:29	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 20:29	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 20:29	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 20:29	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 20:29	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	7.6	5		12/24/19 20:29	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	2.9	5		12/24/19 20:29	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	2.1	5		12/24/19 20:29	108-10-1	
Acetone	**32.8J**	ug/L	50.0	28.0	5		12/24/19 20:29	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	2.8	5		12/24/19 20:29	107-13-1	
Benzene	**56300**	ug/L	500	169	500		12/24/19 18:58	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	2.4	5		12/24/19 20:29	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 20:29	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	2.8	5		12/24/19 20:29	75-25-2	
Bromomethane	**7.4**	ug/L	5.0	3.6	5		12/24/19 20:29	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 20:29	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	2.2	5		12/24/19 20:29	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	1.3	5		12/24/19 20:29	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	3.2	5		12/24/19 20:29	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 20:29	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 20:29	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	2.1	5		12/24/19 20:29	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	1.7	5		12/24/19 20:29	74-95-3	
Ethylbenzene	**133**	ug/L	5.0	2.0	5		12/24/19 20:29	100-41-4	
Iodomethane	**250 U**	ug/L	250	2.6	5		12/24/19 20:29	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/24/19 20:29	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.2	5		12/24/19 20:29	75-09-2	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341986

Sample: C0030-PZM015 **Lab ID: 30341986002** Collected: 12/20/19 10:25 Received: 12/20/19 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Naphthalene	**5540**	ug/L	1000	410	500		12/24/19 18:58	91-20-3	
Styrene	**17.7**	ug/L	5.0	1.6	5		12/24/19 20:29	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/24/19 20:29	127-18-4	
Toluene	**4240**	ug/L	500	158	500		12/24/19 18:58	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	1.5	5		12/24/19 20:29	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	2.5	5		12/24/19 20:29	75-69-4	
Vinyl acetate	**5.0 U**	ug/L	5.0	2.9	5		12/24/19 20:29	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 20:29	75-01-4	
Xylene (Total)	**1840**	ug/L	15.0	6.8	5		12/24/19 20:29	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.9	5		12/24/19 20:29	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 20:29	10061-01-5	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.4	5		12/24/19 20:29	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.6	5		12/24/19 20:29	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	2.9	5		12/24/19 20:29	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	78-122		5		12/24/19 20:29	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		5		12/24/19 20:29	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		12/24/19 20:29	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		12/24/19 20:29	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341986

Sample: C0030-PZM060 **Lab ID: 30341986003** Collected: 12/20/19 11:20 Received: 12/20/19 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D TPH	Analytical Method: EPA 8015D Preparation Method: EPA 3510C								
TPH (C10-C28)	**0.22**	mg/L	0.10	0.056	1	12/27/19 08:24	12/30/19 19:45		1c
Surrogates									
o-Terphenyl (S)	60	%.	17-90		1	12/27/19 08:24	12/30/19 19:45	84-15-1	
Gasoline Range Organics	Analytical Method: EPA 5030/8015B								
TPH (C06-C10)	**109J**	ug/L	200	98.0	1		12/23/19 20:44		
Surrogates									
a,a,a-Trifluorotoluene (S)	78	%.	48-131		1		12/23/19 20:44	98-08-8	
4-Bromofluorobenzene (S)	95	%.	80-120		1		12/23/19 20:44	460-00-4	
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/24/19 14:54	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 14:54	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.47	1		12/24/19 14:54	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 14:54	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 14:54	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.24	1		12/24/19 14:54	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.58	1		12/24/19 14:54	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.55	1		12/24/19 14:54	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 14:54	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 14:54	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 14:54	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.28	1		12/24/19 14:54	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 14:54	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	1.5	1		12/24/19 14:54	78-93-3	
2-Hexanone	**1.3J**	ug/L	10.0	0.58	1		12/24/19 14:54	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.42	1		12/24/19 14:54	108-10-1	
Acetone	**5.8J**	ug/L	10.0	5.6	1		12/24/19 14:54	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.55	1		12/24/19 14:54	107-13-1	
Benzene	**49.8**	ug/L	1.0	0.34	1		12/24/19 14:54	71-43-2	MH
Bromochloromethane	**1.0 U**	ug/L	1.0	0.48	1		12/24/19 14:54	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.35	1		12/24/19 14:54	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.56	1		12/24/19 14:54	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.73	1		12/24/19 14:54	74-83-9	CL
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 14:54	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.44	1		12/24/19 14:54	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.26	1		12/24/19 14:54	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 14:54	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 14:54	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 14:54	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.43	1		12/24/19 14:54	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.34	1		12/24/19 14:54	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.40	1		12/24/19 14:54	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.52	1		12/24/19 14:54	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.25	1		12/24/19 14:54	1634-04-4	ML
Methylene Chloride	**1.0 U**	ug/L	1.0	0.64	1		12/24/19 14:54	75-09-2	

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30341986

Sample: C0030-PZM060 **Lab ID: 30341986003** Collected: 12/20/19 11:20 Received: 12/20/19 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/24/19 14:54	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.33	1		12/24/19 14:54	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/24/19 14:54	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 14:54	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 14:54	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.51	1		12/24/19 14:54	75-69-4	
Vinyl acetate	**1.0 U**	ug/L	1.0	0.57	1		12/24/19 14:54	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 14:54	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	1.4	1		12/24/19 14:54	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.38	1		12/24/19 14:54	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.29	1		12/24/19 14:54	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.28	1		12/24/19 14:54	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.32	1		12/24/19 14:54	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.58	1		12/24/19 14:54	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	78-122		1		12/24/19 14:54	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		1		12/24/19 14:54	17060-07-0	
Toluene-d8 (S)	92	%.	80-120		1		12/24/19 14:54	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		12/24/19 14:54	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341986

QC Batch: 376764 Analysis Method: EPA 5030/8015B
QC Batch Method: EPA 5030/8015B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 30341986001, 30341986002, 30341986003

METHOD BLANK: 1827695 Matrix: Water
Associated Lab Samples: 30341986001, 30341986002, 30341986003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C10)	ug/L	200 U	200	98.0	12/23/19 16:38	
4-Bromofluorobenzene (S)	%.	94	80-120		12/23/19 16:38	
a,a,a-Trifluorotoluene (S)	%.	74	48-131		12/23/19 16:38	

LABORATORY CONTROL SAMPLE: 1827696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C10)	ug/L	1000	853	85	66-129	
4-Bromofluorobenzene (S)	%.			94	80-120	
a,a,a-Trifluorotoluene (S)	%.			89	48-131	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1827697 1827698

Parameter	Units	30341986003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C06-C10)	ug/L	109J	1000	1000	1170	958	106	85	51-126	20	25	
4-Bromofluorobenzene (S)	%.						95	95	80-120			
a,a,a-Trifluorotoluene (S)	%.						118	91	48-131			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341986

QC Batch: 376984 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30341986001, 30341986002, 30341986003

METHOD BLANK: 1828772 Matrix: Water
Associated Lab Samples: 30341986001, 30341986002, 30341986003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.55	12/24/19 13:11	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	12/24/19 13:11	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	12/24/19 13:11	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	12/24/19 13:11	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	12/24/19 13:11	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	12/24/19 13:11	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.58	12/24/19 13:11	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	12/24/19 13:11	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	12/24/19 13:11	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	12/24/19 13:11	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	12/24/19 13:11	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	12/24/19 13:11	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	12/24/19 13:11	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	12/24/19 13:11	
2-Hexanone	ug/L	10.0 U	10.0	0.58	12/24/19 13:11	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	12/24/19 13:11	
Acetone	ug/L	6.2J	10.0	5.6	12/24/19 13:11	
Acrylonitrile	ug/L	4.0 U	4.0	0.55	12/24/19 13:11	
Benzene	ug/L	1.0 U	1.0	0.34	12/24/19 13:11	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	12/24/19 13:11	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	12/24/19 13:11	
Bromoform	ug/L	1.0 U	1.0	0.56	12/24/19 13:11	
Bromomethane	ug/L	1.0 U	1.0	0.73	12/24/19 13:11	CL
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/24/19 13:11	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	12/24/19 13:11	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	12/24/19 13:11	
Chloroethane	ug/L	1.0 U	1.0	0.64	12/24/19 13:11	
Chloroform	ug/L	1.0 U	1.0	0.39	12/24/19 13:11	
Chloromethane	ug/L	1.0 U	1.0	0.40	12/24/19 13:11	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	12/24/19 13:11	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	12/24/19 13:11	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	12/24/19 13:11	
Dibromomethane	ug/L	1.0 U	1.0	0.34	12/24/19 13:11	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	12/24/19 13:11	
Iodomethane	ug/L	50.0 U	50.0	0.52	12/24/19 13:11	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	12/24/19 13:11	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	12/24/19 13:11	
Naphthalene	ug/L	2.0 U	2.0	0.82	12/24/19 13:11	
Styrene	ug/L	1.0 U	1.0	0.33	12/24/19 13:11	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	12/24/19 13:11	
Toluene	ug/L	1.0 U	1.0	0.32	12/24/19 13:11	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341986

METHOD BLANK: 1828772 Matrix: Water
Associated Lab Samples: 30341986001, 30341986002, 30341986003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	12/24/19 13:11	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	12/24/19 13:11	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.58	12/24/19 13:11	
Trichloroethene	ug/L	1.0 U	1.0	0.29	12/24/19 13:11	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	12/24/19 13:11	
Vinyl acetate	ug/L	1.0 U	1.0	0.57	12/24/19 13:11	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	12/24/19 13:11	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	12/24/19 13:11	
1,2-Dichloroethane-d4 (S)	%.	102	80-120		12/24/19 13:11	
4-Bromofluorobenzene (S)	%.	98	78-122		12/24/19 13:11	
Dibromofluoromethane (S)	%.	99	80-120		12/24/19 13:11	
Toluene-d8 (S)	%.	98	80-120		12/24/19 13:11	

LABORATORY CONTROL SAMPLE: 1828773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.3	101	70-130	
1,1,1-Trichloroethane	ug/L	20	20.2	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	70-130	
1,1,2-Trichloroethane	ug/L	20	19.7	99	70-130	
1,1-Dichloroethane	ug/L	20	20.1	101	68-121	
1,1-Dichloroethene	ug/L	20	19.0	95	63-129	
1,2,3-Trichloropropane	ug/L	20	19.3	96	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	15.2	76	67-132	
1,2-Dibromoethane (EDB)	ug/L	20	19.7	99	70-130	
1,2-Dichlorobenzene	ug/L	20	20.9	105	70-130	
1,2-Dichloroethane	ug/L	20	19.3	96	67-117	
1,2-Dichloropropane	ug/L	20	21.8	109	69-121	
1,4-Dichlorobenzene	ug/L	20	20.6	103	70-130	
2-Butanone (MEK)	ug/L	20	21.0	105	59-128	
2-Hexanone	ug/L	20	22.6	113	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	22.0	110	63-126	
Acetone	ug/L	20	29.4	147	37-150	
Acrylonitrile	ug/L	20	23.7	118	62-128	
Benzene	ug/L	20	18.9	95	70-130	
Bromochloromethane	ug/L	20	18.8	94	59-137	
Bromodichloromethane	ug/L	20	17.9	90	70-130	
Bromoform	ug/L	20	14.7	74	65-130	
Bromomethane	ug/L	20	11.9	60	45-148	CL
Carbon disulfide	ug/L	20	16.1	81	55-123	
Carbon tetrachloride	ug/L	20	18.7	94	69-126	
Chlorobenzene	ug/L	20	21.1	105	70-130	
Chloroethane	ug/L	20	17.1	86	68-146	
Chloroform	ug/L	20	19.3	97	69-116	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341986

LABORATORY CONTROL SAMPLE: 1828773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	19.6	98	56-129	
cis-1,2-Dichloroethene	ug/L	20	20.5	102	66-118	
cis-1,3-Dichloropropene	ug/L	20	17.3	87	70-130	
Dibromochloromethane	ug/L	20	16.8	84	70-130	
Dibromomethane	ug/L	20	17.6	88	70-130	
Ethylbenzene	ug/L	20	21.3	107	70-130	
Iodomethane	ug/L	20	20.9J	104	10-175	
Methyl-tert-butyl ether	ug/L	20	18.3	92	70-130	
Methylene Chloride	ug/L	20	23.5	118	65-124	
Naphthalene	ug/L	20	19.9	100	69-135	
Styrene	ug/L	20	21.1	105	70-130	
Tetrachloroethene	ug/L	20	20.2	101	70-130	
Toluene	ug/L	20	20.1	101	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.2	101	64-123	
trans-1,3-Dichloropropene	ug/L	20	17.6	88	68-119	
trans-1,4-Dichloro-2-butene	ug/L	20	17.5	88	37-119	
Trichloroethene	ug/L	20	21.0	105	70-130	
Trichlorofluoromethane	ug/L	20	20.3	101	64-163	
Vinyl acetate	ug/L	20	20.1	100	45-129	
Vinyl chloride	ug/L	20	19.3	96	70-130	
Xylene (Total)	ug/L	60	61.1	102	70-130	
1,2-Dichloroethane-d4 (S)	%.			95	80-120	
4-Bromofluorobenzene (S)	%.			97	78-122	
Dibromofluoromethane (S)	%.			100	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1828774 1828775

Parameter	Units	30341986003 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	15.5	16.9	78	84	52-123	8	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.8	17.5	84	87	67-127	4	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.2	18.0	81	90	55-118	11	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	15.4	16.9	77	84	60-117	9	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	16.8	18.3	84	92	68-118	9	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	13.0	13.5	65	68	62-126	4	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	15.2	17.2	76	86	56-129	12	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	10.7	11.9	54	59	46-130	10	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	14.7	16.6	74	83	69-124	12	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	15.5	17.8	78	89	66-116	13	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	15.8	16.3	79	82	67-117	3	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	17.0	18.3	85	91	61-128	7	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	15.4	17.2	77	86	68-116	11	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	18.9	22.0	95	110	63-175	15	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30341986

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1828774 1828775

Parameter	Units	30341986003 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	1.3J	20	20	19.2	21.5	90	101	65-151	11	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	19.3	20.5	97	103	66-149	6	30	
Acetone	ug/L	5.8J	20	20	24.2	21.4	92	78	10-175	12	30	
Acrylonitrile	ug/L	4.0 U	20	20	17.3	21.4	86	107	42-165	21	30	
Benzene	ug/L	49.8	20	20	85.7	70.9	180	106	67-119	19	30	C8,MH
Bromochloromethane	ug/L	1.0 U	20	20	16.1	16.8	80	84	64-124	5	30	
Bromodichloromethane	ug/L	1.0 U	20	20	13.9	14.2	69	71	67-126	3	30	
Bromoform	ug/L	1.0 U	20	20	10.3	10.7	51	53	43-114	4	30	
Bromomethane	ug/L	1.0 U	20	20	3.6	3.4	18	17	10-164	7	30	CL
Carbon disulfide	ug/L	1.0 U	20	20	9.2	9.9	46	49	37-135	6	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	15.1	16.1	75	81	60-137	7	30	
Chlorobenzene	ug/L	1.0 U	20	20	17.0	18.1	85	90	68-119	6	30	
Chloroethane	ug/L	1.0 U	20	20	12.2	12.3	61	62	54-169	1	30	
Chloroform	ug/L	1.0 U	20	20	15.5	17.0	77	85	69-113	9	30	
Chloromethane	ug/L	1.0 U	20	20	14.8	15.0	74	75	43-159	1	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.9	17.3	84	87	65-121	3	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	13.0	13.7	65	68	61-120	5	30	
Dibromochloromethane	ug/L	1.0 U	20	20	11.8	12.9	59	65	56-121	9	30	
Dibromomethane	ug/L	1.0 U	20	20	14.4	15.5	72	78	56-133	8	30	
Ethylbenzene	ug/L	1.0 U	20	20	16.6	18.4	83	92	69-127	10	30	
Iodomethane	ug/L	50.0 U	20	20	3.9J	7.3J	20	36	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	15.0	13.9	75	69	70-130	8	30	ML
Methylene Chloride	ug/L	1.0 U	20	20	17.8	15.8	89	79	49-144	12	30	
Naphthalene	ug/L	2.0 U	20	20	17.6	18.1	88	91	60-136	3	30	
Styrene	ug/L	1.0 U	20	20	16.2	18.3	81	92	65-120	12	30	
Tetrachloroethene	ug/L	1.0 U	20	20	16.1	17.7	81	88	64-123	9	30	
Toluene	ug/L	1.0 U	20	20	18.7	18.3	94	91	70-130	2	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.0	14.6	85	73	66-119	15	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	12.9	14.5	65	73	52-117	11	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	7.9	8.5	40	43	13-100	7	30	
Trichloroethene	ug/L	1.0 U	20	20	16.9	18.3	84	91	63-125	8	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	19.0	17.6	95	88	43-186	8	30	
Vinyl acetate	ug/L	1.0 U	20	20	15.9	15.7	79	79	35-150	1	30	
Vinyl chloride	ug/L	1.0 U	20	20	16.0	15.8	80	79	60-133	2	30	
Xylene (Total)	ug/L	3.0 U	60	60	50.2	53.3	84	89	69-128	6	30	
1,2-Dichloroethane-d4 (S)	%.						103	98	80-120			
4-Bromofluorobenzene (S)	%.						96	99	78-122			
Dibromofluoromethane (S)	%.						104	101	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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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.: 30341986

QC Batch: 377256 Analysis Method: EPA 8015D
QC Batch Method: EPA 3510C Analysis Description: EPA 8015D TPH
Associated Lab Samples: 30341986002, 30341986003

METHOD BLANK: 1829793 Matrix: Water
Associated Lab Samples: 30341986002, 30341986003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C10-C28)	mg/L	0.10 U	0.10	0.056	12/30/19 19:07	
o-Terphenyl (S)	%.	65	17-90		12/30/19 19:07	

LABORATORY CONTROL SAMPLE: 1829794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C10-C28)	mg/L	1	0.69	69	43-107	
o-Terphenyl (S)	%.			73	17-90	

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 Sampling
Pace Project No.: 30341986

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: 377256

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
C8	Result may be biased high due to carryover from previously analyzed sample.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
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.: 30341986

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30341986002	**C0030-PZM015**	EPA 3510C	377256	EPA 8015D	377312
30341986003	**C0030-PZM060**	EPA 3510C	377256	EPA 8015D	377312
30341986001	**Trip Blank**	EPA 5030/8015B	376764		
30341986002	**C0030-PZM015**	EPA 5030/8015B	376764		
30341986003	**C0030-PZM060**	EPA 5030/8015B	376764		
30341986001	**Trip Blank**	EPA 8260B	376984		
30341986002	**C0030-PZM015**	EPA 8260B	376984		
30341986003	**C0030-PZM060**	EPA 8260B	376984		

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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
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:	

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)

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	GRO	DRO	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
Trip Blank	WT				12/20/19			2				2						X	X			001
CA030-PZM015	WT	G				1025		3	2			6						X	X	X		002
CA030-PZM060	WT	G				1120		3	2			6						X	X	X		003

WO# : 30341986

30341986

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] NKM	12/20/19	1230	David L Kellogg Pace	12/20/19	1651	
	David L Kellogg Pace	12/20/19	1900	RDS TACE	12/20-19	0910	Y
	RDS TACE	12-20-19	2230		12-20-19	2230	2.3 Y N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Leandra M Glumac

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 12/20/19

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: Envn Analytics Project # _____

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label NM
LIMS Login NM

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 °C Final Temp: 2.3 °C

Temp should be above freezing to 6°C

pH paper Lot# ICP0391 Date and Initials of person examining contents: pa 12-21-19

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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:	✓			14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16.
All containers meet method preservation requirements.	✓			Initial when completed NM Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad Samples Screened < 0.5 mrem/hr			✓	Initial when completed: NM 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.

APPENDIX C

System Operations/Shut-Down Summary

JANUARY 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1 •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 (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Sampled	4 •Cell 1 (On) - Sampled •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Sampled	5 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
6 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	7 •Cell 1 **(Off)** - VFD fault •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	8 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	9 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Separator pump off to allow effluent outlet tank to pump down	10 •Cell 1 (On) •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Sampled	11 •Cell 1 (On) •Cell 2 GW (On) - Winterize oxidizer blower •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	12 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**
13 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	14 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	15 •Cell 1 (On) •Cell 2 GW (On) - Temporary outage •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	16 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Carbon change	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 **(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 (On) •Cell 5 (On)	23 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) - Temporary outage, high eff discharge temp •Cell 5 (On)	24 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	25 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	26 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
27 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	28 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	29 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	30 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	31 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)		
		NOTES: **Cell 1 system off from 1/1 - 1/3, 1/7, 1/19 - 1/31 (17 Days)** **Cell 2 GW system off from 1/1 - 1/2, 1/18 - 1/31 (16 Days)** **Cell 2 SVE system off from 1/1 - 1/31 (31 Days)** **Cell 3 system off from 1/1 - 1/21, 1/26 - 1/31 (27 Days)** **Cell 5 system off from 1/1 - 1/2, 1/12 - 1/15 (6 Days)**				

FEBRUARY 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Cartridge filters	2 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
3 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	4 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	5 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	6 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	7 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Add acid	8 •Cell 1 (On) •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 **(Off)** •Cell 5 (On)
10 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	11 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Repair valve on carbon vessel	12 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	13 •Cell 1 **(Off)** •Cell 2 GW (On) - Inlet tank high alarm •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Fill antifoam	14 •Cell 1 **(Off)** •Cell 2 GW (On) - Fill antifoam, bag filters •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Fill antifoam	15 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	16 •Cell 1 **(Off)** •Cell 2 GW **(Off)** - Power outage •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**
17 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	18 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	19 •Cell 1 (On) •Cell 2 GW (On) - Inlet tank high level, sampled •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Check acid, fill antifoam	20 •Cell 1 **(Off)** •Cell 2 GW (On) - airstripper probe malfunction •Cell 2 SVE **(Off)** •Cell 3 (On) - High discharge temperature •Cell 5 (On) - Fill antifoam	21 •Cell 1 **(Off)** - Change sparge wells •Cell 2 GW (On) - Fill antifoam •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Add acid	22 •Cell 1 **(Off)** •Cell 2 GW (On) - Sampled, fill antifoam •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Change filters, fill antifoam	23 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
24 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	25 •Cell 1 **(Off)** •Cell 2 GW (On) - Fill antifoam •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Fill antifoam	26 •Cell 1 (On) •Cell 2 GW (On) - Fill antifoam •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Add acid	27 •Cell 1 **(Off)** •Cell 2 GW (On) - Fill antifoam •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Fill antifoam	28 •Cell 1 (On) •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)		
		NOTES: **Cell 1 system off from 2/1 - 2/5, 2/9 - 2/18, 2/20 - 2/25, 2/27 (22 Days)** **Cell 2 GW system off from 2/1 - 2/5, 2/16 - 2/17 (7 Days)** **Cell 2 SVE system off from 2/1 - 1/28 (28 Days)** **Cell 3 system off from 2/1 - 2/5, 2/9 - 2/18, 2/23 - 2/25, 2/27 (19 Days)** **Cell 5 system off from 2/6, 2/16 - 2/18 (4 Days)**				

MARCH 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1 •Cell 1 **(Off)** •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Fill antifoam, cartridge filters	2 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
3 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	4 •Cell 1 **(Off)** •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	5 •Cell 1 (On) - Change sparge wells •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Fill antifoam, add acid	6 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) - Sampled •Cell 5 (On) - Sampled	7 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Sampled	8 •Cell 1 **(Off)** •Cell 2 GW (On) - Sampled, fill antifoam •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Sampled	9 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
10 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	11 •Cell 1 (On) •Cell 2 GW (On) - Fill antifoam •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Fill antifoam	12 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Fill antifoam, add acid	13 •Cell 1 **(Off)** •Cell 2 GW (On) - Fill antifoam •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Fill antifoam	14 •Cell 1 (On) •Cell 2 GW (On) - Fill antifoam •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Fill antifoam	15 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Fill antifoam	16 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
17 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	18 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Fill antifoam	19 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	20 •Cell 1 **(Off)** •Cell 2 GW (On) - Fill antifoam •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Fill antifoam	21 •Cell 1 **(Off)** - Power outage •Cell 2 GW (On) - MS tank high level •Cell 2 SVE **(Off)** - Blower not operating correctly •Cell 3 **(Off)** - Power outage •Cell 5 **(Off)** - Power outage	22 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Cartridge filters	23 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
24 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	25 •Cell 1 (On) •Cell 2 GW (On) - AST high level alarm, bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) - Temporary outage •Cell 5 (On) - LRP leaking oil	26 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) - Temporary outage •Cell 5 (On) - Oil drained and added to LRP	27 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	28 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) - Separator tank drained •Cell 5 (On)	29 •Cell 1 (On) •Cell 2 GW (On) - Fill antifoam •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Fill antifoam	30 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •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 - 3/4, 3/8 - 3/10, 3/13, 3/15 - 3/18, 3/20 - 3/21, 3/23 - 3/24, 3/27, 3/30 - 3/31 (19 Days)** **Cell 2 GW system off from 3/26 (1 Days)** **Cell 2 SVE system off from 3/1 - 3/31 (31 Days)** **Cell 3 system off from 3/1 - 3/4, 3/9 - 3/10, 3/13, 3/16 - 3/18, 3/20 - 3/24, 3/27, 3/30 - 3/31 (18 Days)** **Cell 5 system off from 3/21 (1 Day)**				

APRIL 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 •Cell 1 **(Off)** •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Sampled	2 •Cell 1 (On) - Sampled •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** - Sampled •Cell 3 (On) •Cell 5 (On) - Sampled	3 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) - Discharge pressure alarm •Cell 5 (On)	4 •Cell 1 (On) - Temporary outage, sampled •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) - Sampled •Cell 5 (On) - Bag filters, cartridge filters	5 •Cell 1 **(Off)** - VFD fault •Cell 2 GW (On) •Cell 2 SVE **(Off)** - Sampled •Cell 3 (On) •Cell 5 (On) - Fill antifoam	6 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
7 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	8 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	9 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Fill antifoam	10 •Cell 1 (On) - MID carbon break through •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - High level alarm, Backwash LGAC, cartridge filters	11 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters	12 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Add acid	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) - AST high level alarm •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - High level alarm	16 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	17 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	18 •Cell 1 (On) - Temporary outage •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) - Temporary outage •Cell 5 (On) - Bag filters	19 •Cell 1 (On) •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 **(Off)** •Cell 5 (On)
21 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	22 •Cell 1 **(Off)** - VGAC carbon change-out •Cell 2 GW **(Off)** AST high level alarm, cleaned AST trays •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	23 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	24 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	25 •Cell 1 (On) •Cell 2 GW (On) - AST cleaned, bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	26 •Cell 1 (On) •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	27 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
28 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	29 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	30 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters				
		NOTES: **Cell 1 system off from 4/1, 4/5 - 4/8, 4/20 - 4/22, 4/27 - 4/29 (11 Days)** **Cell 2 GW system off on 4/22 - 4/24 (3 Day)** **Cell 2 SVE system off from 4/1 - 4/30 (30 Days)** **Cell 3 system off from 4/1, 4/6 - 4/8, 4/13 - 4/15, 4/20 - 4/22, 4/27 - 4/29 (13 Days)** **Cell 5 system off from 4/23 - 4/25 (3 Day)**				

MAY 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	2 •Cell 1 **(Off)** •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters, cartridge filters	3 •Cell 1 (On) •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Sampled	4 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
5 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •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) - Water in AS-25 leg dwyer gauge •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) - Temporary outage •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - LGAC vessels need changed, Sampled	10 •Cell 1 (On) •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	11 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
12 •Cell 1 (On) •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) - Sampled •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Backwashed LGAC vessels, change filters	16 •Cell 1 (On) •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	17 •Cell 1 (On) - Change AS and SVE legs •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	18 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
19 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	20 •Cell 1 (On) - Sampled •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - pH pump backflow into acid drum	21 •Cell 1 (On) •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 (On) - Sampled •Cell 5 (On) - Sampled	22 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)** - LGAC carbon hydration	23 •Cell 1 (On) •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Acid meter pump ordered, bag filters	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) •Cell 5 **(Off)**
26 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	27 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	28 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) - Installed new hose at bowlegs in AS lines •Cell 5 **(Off)** - High level alarm, cartridge filter leak	29 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	30 •Cell 1 (On) •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Antifoam pump cleaned	31 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	
		NOTES: **Cell 1 system off on 5/2, 5/4 - 5/5, 5/18 - 5/19 (5 Day)** **Cell 2 SVE system off from 5/1 - 5/31 (31 Days)** **Cell 3 system off from 5/4 - 5/5, 5/17 - 5/19, 5/31 (6 Days)** **Cell 5 system off from 5/22, 5/25 - 5/29 (6 Days)**				

JUNE 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** - Power failure •Cell 5 (On)
2 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	3 •Cell 1 (On) •Cell 2 GW (On) - AST high level alarm, sampled •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Antifoam empty, sampled	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) - Sampled	6 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters, cartridge filters	7 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Filled chemicals	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) - Change AS and SVE legs •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	12 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	13 •Cell 1 (On) •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •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 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	17 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	18 •Cell 1 (On) - Temporary outage •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) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Sampled, bag filters, cartridge filters	21 •Cell 1 (On) •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Sampled	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) - 3 well heads left open	25 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	26 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	27 •Cell 1 **(Off)** - Influent air line leak •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters, cartridge filters	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) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
30 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)		**NOTES:** **Cell 1 system off from 6/27 - 6/30 (4 Days)** **Cell 2 GW system off from 6/4 - 6/11 (8 Days)** **Cell 2 SVE system off from 6/1 - 6/30 (30 Days)** **Cell 3 system off from 6/1 - 6/2, 6/13 (3 Days)**				

JULY 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Sampled	2 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	3 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	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 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters, cartridge filters	9 •Cell 1 (On) - Temporary outage •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) - Sampled •Cell 5 (On) - Additional wells opened	10 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	11 •Cell 1 (On) - VGAC change out •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) - VGAC change out •Cell 5 (On)	12 •Cell 1 (On) - Water in air flow gauges •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 **(Off)**
14 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	15 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	16 •Cell 1 (On) - Temporary outage •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	17 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) - Temporary outage •Cell 5 **(Off)**	18 •Cell 1 (On) •Cell 2 GW (On) - Temporary outage, bag filters, sampled •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	19 •Cell 1 (On) - Temporary outage •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	20 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**
21 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	22 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	23 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	24 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	25 •Cell 1 (On) •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	26 •Cell 1 (On) •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	27 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**
28 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	29 •Cell 1 (On) •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	30 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	31 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**			
		NOTES: **Cell 1 system off from 7/1 - 7/7 (7 Days)** **Cell 2 GW system off from 7/1 - 7/7 (7 Days)** **Cell 2 SVE system off from 7/1 - 7/31 (31 Days)** **Cell 3 system off from 7/4 - 7/7, 7/27 - 7/29 (7 Days)** **Cell 5 system off from 7/4 - 7/8, 7/13 - 7/31 (23 Days)**				

AUGUST 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1 •Cell 1 (On) - Temporary outage •Cell 2 GW (On) - Temporary outage, bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	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 **(Off)**
4 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	5 •Cell 1 (On) •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	6 •Cell 1 (On) •Cell 2 GW (On) - Sampled •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) - Sampled	8 •Cell 1 (On) •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Sampled, bag filters, cartridge filters	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 (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	12 •Cell 1 (On) - Sampled •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	13 •Cell 1 (On) - Sampled •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	14 •Cell 1 (On) - Sampled •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 (On) •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters, cartridge filters	17 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
18 •Cell 1 **(Off)** •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 (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) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters, cartridge filters	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) •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) - Bag filters •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) - Bag filters, cartridge filters	30 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	31 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**
		NOTES: **Cell 1 system off from 8/17 - 8/18 (2 Days)** **Cell 2 SVE system off from 8/1 - 8/31 (31 Days)** **Cell 3 system off from 8/17 - 8/18, 8/31 (3 Days)** **Cell 5 system off from 8/1 - 8/4, 8/31 (5 Days)**				

SEPTEMBER 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	2 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	3 •Cell 1 (On) •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Sampled	4 •Cell 1 (On) - Sampled •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 (On) - Sampled •Cell 5 (On) - Sampled	5 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters, cartridge filters	6 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Back pressure on LGAC vessels	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 (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 (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	12 •Cell 1 (On) •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	13 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	14 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**
15 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	16 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	17 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	18 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters, cartridge filters	19 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	20 •Cell 1 (On) - Southern well system online •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters	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) •Cell 5 (On)	26 •Cell 1 (On) •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Temporary outage, bag filters clogged, changed filters	27 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Cartridge filters	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) - Cartridge filters					
		NOTES: **Cell 1 system off from 9/7 - 9/8 (2 Days)** **Cell 2 SVE system off from 9/1 - 9/30 (30 Days)** **Cell 3 system off from 9/1 - 9/2 (2 Days)** **Cell 5 system off from 9/1 - 9/2, 9/11 - 9/17 (9 Days)**				

OCTOBER 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	2 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Sampled, Potential LGAC vessel issues	3 •Cell 1 (On) •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters	4 •Cell 1 (On) •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Continued back pressure	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) - Change AS and SVE legs •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) - Change AS and SVE •Cell 5 (On) - Bag filters	10 •Cell 1 (On) •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) - Replaced check valve •Cell 5 (On)	11 •Cell 1 (On) •Cell 2 GW (On) - Temporary outage •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	12 •Cell 1 (On) •Cell 2 GW (On) •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 **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	16 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Sampled	17 •Cell 1 (On) - Temporary outage •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters, cartridge filters	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) - Fill antifoam, pump reprimed	22 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Carbon change prep	23 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)** - Carbon change out	24 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters, cartridged filters	25 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters, cartridge filters	26 •Cell 1 **(Off)** - Power alarms •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** - Power alarms •Cell 5 (On)
27 •Cell 1 **(Off)** •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 (On) •Cell 5 (On) - Bag filters, cartridge filters	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) - Temporary outage •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) - Temporary outage •Cell 5 (On) - Possible pH probe issues, changed filters		
		NOTES: **Cell 1 system off from 10/16, 10/26 - 10/27 (3 Days)** **Cell 2 GW system off from 10/15 - 10/31 (17 Days)** **Cell 2 SVE system off from 10/1 - 10/31 (31 Days)** **Cell 3 system off from 10/12 - 10/14, 10/16, 10/26 - 10/27 (6 Days)** **Cell 5 system off from 10/15, 10/23 (2 Days)**				

NOVEMBER 2019

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 **(Off)** - Tank high level •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
3 •Cell 1 **(Off)** •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) - Bag filters, cartridge filters	6 •Cell 1 (On) - Sampled •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) - Sampled •Cell 5 (On) - Sampled	7 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Sampled	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 **(Off)** •Cell 5 (On)
10 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	11 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Bag filters	12 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Bag filters, cartridge filters	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) - Bag filter •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters, cartridge filters	15 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	16 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
17 •Cell 1 (On) •Cell 2 GW (On) •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) - Bag filters, cartridge filters	19 •Cell 1 (On) - MS tank drained •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) - Cartridge filters	21 •Cell 1 (On) •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters	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) •Cell 5 (On) - Bag filters, cartridge filters	26 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	27 •Cell 1 (On) •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	28 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	29 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	30 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**
		NOTES: **Cell 1 system off from 11/2 - 11/3 (2 Days)** **Cell 2 GW system off from 11/1 - 11/7 (7 Days)** **Cell 2 SVE system off from 11/1 - 11/30 (30 Days)** **Cell 3 system off from 11/9 - 11/12, 11/28 - 11/30 (7 Days)** **Cell 5 system off from 11/26 - 11/30 (5 Days)**				

DECEMBER 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	2 •Cell 1 (On) •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Sampled, bag filters, cartridge filters	3 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Sampled	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) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Bag filters, cartridge filters	6 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Cartridge filters	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) - Cartridge filters, replaced MS pump valve	10 •Cell 1 (On) •Cell 2 GW (On) - Sampled •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Cartridge filters	11 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - bag filters, cartridge filters	12 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - VGAC drained from moisture build up	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 (On) - MS tank drained •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) - Low discharge pressure alarm •Cell 5 (On)	17 •Cell 1 **(Off)** •Cell 2 GW **(Off)** - Shut down during network sampling •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	18 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	19 •Cell 1 **(Off)** •Cell 2 GW (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Bag filters, cartridge filters	20 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Cartridge filters	21 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
22 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	23 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	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 (On) - Bag filters •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Bag filters, cartridge filters	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 (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	31 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**				
		NOTES: **Cell 1 system off from 12/17 - 12/31 (15 Days)** **Cell 2 GW system off from 12/17, 12/27 - 12/29, 12/31 (5 Days)** **Cell 2 SVE system off from 12/1 - 12/31 (31 Days)** **Cell 3 system off from 12/17 - 12/31 (15 Days)** **Cell 5 system off from 12/1, 12/17 - 12/18, 12/24 - 12/25, 12/27 - 12/29, 12/31 (9 Days)**				

APPENDIX D

Historical Data Summary

Coke Oven Historical Data - Cell 1 Groundwater Analytical Results

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
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	10 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	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	5 U	5 U	5 U	5 U	5 U	5 U	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	3.2 J	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	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	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	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	10.4 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	50 U	50 U	50 U	50 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	50 U	50 U	50 U	50 U
2-Methylnaphthalene	3.4 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	4.8 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	50 U	50 U	50 U	50 U

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	3.3 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	1.1 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	29.3 J	50 U	50 U	37 J
Anthracene	1.7 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	0.2 J2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	127,000	148,000	143,000	141,000
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	0.26 J2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	0.26 J2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	0.24 J2c	NS	NS	NS	NS	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	6.3 CL
Butylbenzylphthalate	1 U	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	5 U	1.8 J	5 U	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	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	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	2.6 J	5 U	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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-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
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	1 U	NS	NS	NS	NS	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	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	374	471	731	470	451 IS	367	267	367	225	271	335	261	202	134	283	252	293	257	350
Fluoranthene	2.9 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	5 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	11.9 L2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	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 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	4.3 J	5 U	5 U	5 U
Naphthalene	373	562	664	476	392 IS	511	273	360	210	276	370	314	164	119	187	231	218	244	318
Nitrobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	1.5 J2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	9.6 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenol	36.3 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	1.7 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine	0.27 J2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	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	3 J	3.2 J	3.8 J	9.2
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	156	951	15,400	2,690	2,500	1,070	243	122	136	43.5	104	32	33.3	13.7	77.7	86	144	144	155
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	753	1,180	4,310	1,630	1,590 ES	1,220	480	738	345	403	643	376	139	60.2	139	206	357	321	469

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO02-PZM041			ug/L															
1,1,1,2-Tetrachloroethane	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
1,1,1-Trichloroethane	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
1,1,2,2-Tetrachloroethane	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
1,1,2-Trichloroethane	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
1,1-Dichloroethane	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
1,1-Dichloroethene	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
1,2,4-Trichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	8 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	NS
1,2-Dibromoethane	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
1,2-Dichlorobenzene	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
1,2-Dichloroethane	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
1,2-Dichloropropane	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
1,3-Dichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
2,4,5-Trichlorophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	1.9 4c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	20 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	10 U	NS
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	20 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	10 U	NS
2-Methylnaphthalene	0.32 J4c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	0.28 J4c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	20 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	10 U	NS
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	25.2 4c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	100 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	10 U	NS
Anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Benzene	36.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	686	NS
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
Bromoform	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
Bromomethane	8 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.1 CLB	NS
Butylbenzylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	8 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
Carbon tetrachloride	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
Chlorobenzene	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.65 J	NS
Chloroethane	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
Chloroform	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
Chloromethane	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
Chrysene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
cis-1,3-Dichloropropene	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
Dibenz[a,h]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	3.7 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	17.6	NS
Fluoranthene	0.45 J4c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	0.7 J4c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
Methylene Chloride	36.3 L1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	NS
Naphthalene	376	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	327	NS
Nitrobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Phenanthrene	4.4 4c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	0.69 J4c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	0.26 J4c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	0.83 J	*NS*
Tetrachloroethene	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*
Toluene	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	35	*NS*
trans-1,2-Dichloroethene	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*
trans-1,3-Dichloropropene	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*
Trichloroethene	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*
Trichlorofluoromethane	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*
Vinyl chloride	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*
Xylenes	9.9	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	26.4	*NS*

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
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	10 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	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	5 U	5 U	5 U	5 U	5 U	5 U	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	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	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	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	25.9 1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	50 U	50 U	50 U	50 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	3.6 J	4.2 J	50 U	50 U
2-Methylnaphthalene	1.1 1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	1.9 1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	50 U	50 U	50 U	50 U
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	0.69 J1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	0.26 J1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	94	190	66	75.8

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Anthracene	0.63 J1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	0.96 J1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	338,000	670,000	596,000	241,000
Benzo[a]pyrene	0.7 J1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1.7 1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	0.24 J1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	0.64 J1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	2.8 1c2c	NS	NS	NS	NS	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	8.5 CL
Butylbenzylphthalate	1 U	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	5 U	8.1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.7 J	5 U	2.7 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 U	5 U	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	4.2 J	5 U	5 U
Chrysene	1.3 1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-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
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	1 U	NS	NS	NS	NS	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	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	63.5	73.8	89.5	94.3
Fluoranthene	5.1 1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	0.88 J1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	0.26 J1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	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	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Methylene Chloride	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*	4.8 J	*5 U*	*5 U*	*5 U*
Naphthalene	33.8	81.8	279	145	132	142	140	262	117	211	159	182	172	121	135	221	189	230	211
Nitrobenzene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	3.7 1c2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	8.6 1c2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	4.1 1c2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	1.6 1c2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	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	3.3 J	*5 U*	10.4	25.3
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*	*5 U*	*5 U*
Toluene	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	5,360	15,300	20,000	8,660
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	380	202	279	796	1,130	859	680	2,520	1,310	2,260	1,010	1,100	1,610	903	1,420	1,480	1,740	2,170	2,340

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
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	10 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	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	5 U	5 U	5 U	5 U	5 U	5 U	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	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	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	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	31.2 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	50 U	50 U	50 U	50 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	50 U	50 U	50 U	50 U
2-Methylnaphthalene	27.9 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	20.5 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	50 U	50 U	50 U	50 U
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	4.1 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	1.9 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	50 U	153	50 U	40.3 J

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Anthracene	3.7 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	1.9 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	162,000	247,000	184,000	148,000
Benzo[a]pyrene	1.8 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	3.2 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	0.26 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1.4 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	1 J1c	NS	NS	NS	NS	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	26.8	5 U	5 U	5 U	3.5 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.1 CL
Butylbenzylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	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	9.9	12.7	19.5	6.6
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	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	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	1.9 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-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
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	1 U	NS	NS	NS	NS	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	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	752	1,250	1,350	1,210
Fluoranthene	7.2 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	9.9 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	0.31 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	35.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	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	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Methylene Chloride	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*	4 J	*5 U*	*5 U*	*5 U*
Naphthalene	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	1,670	1,900	14,100	4,800
Nitrobenzene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	2.8 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	16.5 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	93.3 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	4.4 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	19.5 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	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	832	1,300	1,620	1,320
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	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	42,500	69,900	64,500	54,000
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*	1.7 J	*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	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	9,840	16,900	22,500	12,500

U: Non-Detect, *NS: Not Sampled*

Coke Oven Historical Data - Cell 2 Groundwater Analytical Results

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO27-PZM012			ug/L															
1,1,1,2-Tetrachloroethane	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	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	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	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	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	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	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	5 U	5 U	5 U	5 U
1,1-Dichloroethane	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	5 U	5 U	5 U	5 U
1,1-Dichloroethene	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	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	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	25 U	25 U	5 U	1 U	1 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
1,2-Dibromoethane	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	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	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	5 U	5 U	5 U	5 U
1,2-Dichloroethane	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	5 U	5 U	5 U	5 U
1,2-Dichloropropane	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	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	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	5 U	5 U	5 U	5 U
1,4-Dioxane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	3.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	50 U	50 U	50 U	50 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	50 U	50 U	50 U	50 U
2-Methylnaphthalene	12.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	4.4	NS	NS	NS	NS	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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	1 U	NS	NS	NS	NS	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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
4-Methyl-2-pentanone (MIBK)	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	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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	0.6 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	0.84 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	16.7 J	27.4 J	50 U	50 U
Anthracene	0.21 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	3,630	13,500	13,000	11,600
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	0.2 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	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	5 U	5 U	5 U	5 U
Bromoform	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	5 U	5 U	5 U	5 U
Bromomethane	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	5 U	5 U	5 U	5 U
Butylbenzylphthalate	1 U	NS	NS	NS	NS	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	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	5 U	5 U	5 U	5 U
Carbon tetrachloride	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	5 U	5 U	5 U	5 U
Chlorobenzene	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	5 U	5 U	5 U	5 U
Chloroethane	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	5 U	5 U	5 U	5 U
Chloroform	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	5 U	5 U	5 U	5 U
Chloromethane	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	5 U	5 U	5 U	5 U
Chrysene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	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	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	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	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diesel Range Organics	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3.6 1c
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	95.8	130	178	169	177	181	175	171	117	130	120	114	20.7	59.8	37.7	35.2	121	141	162
Fluoranthene	0.23 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Gasoline Range Organics	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	29,800
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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	5 U	5 U	5 U	5 U
Methylene Chloride	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	4.1 J	5 U	5 U	5 U
Naphthalene	937	1,720	4,030	3,080	756	1,230	1,330	5,670	1,910	1,280	863	913	176	482	293	316	667	905	1,140
Nitrobenzene	1 U	NS	NS	NS	NS	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	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	0.98 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenol	3.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine	0.26 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	110	167	231	199	215	212	216	213	135	134	136	120	16.3	54.7	32.8	32.8	126	138	176
Tetrachloroethene	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	5 U	5 U	5 U	5 U
Toluene	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	854	4,390	3,980	4,240
trans-1,2-Dichloroethene	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	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	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	5 U	5 U	5 U	5 U
Trichloroethene	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	5 U	5 U	5 U	5 U
Trichlorofluoromethane	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	5 U	5 U	5 U	5 U
Vinyl chloride	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	5 U	5 U	5 U	5 U
Xylenes	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	308	1,070	1,280	1,390

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO27-PZM046			ug/L															
1,1,1,2-Tetrachloroethane	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	1000 U
1,1,1-Trichloroethane	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	1000 U
1,1,2,2-Tetrachloroethane	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	1000 U
1,1,2-Trichloroethane	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	1000 U
1,1-Dichloroethane	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	5 U	5 U	5 U	1000 U
1,1-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	1000 U
1,2,4-Trichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	25 U	25 U	25 U	5,000 U
1,2-Dibromoethane	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	1000 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	1000 U
1,2-Dichloroethane	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	1000 U
1,2-Dichloropropane	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	1000 U
1,3-Dichlorobenzene	1 U	NS	NS	NS	NS	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	1000 U
1,4-Dioxane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	22.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	50 U	11.2 J	50 U	10,000 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	50 U	50 U	50 U	10,000 U
2-Methylnaphthalene	64.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	37.6	NS	NS	NS	NS	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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	1 U	NS	NS	NS	NS	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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	50 U	50 U	50 U	10,000 U
4-Nitroaniline	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	10.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Acenaphthylene	47.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	35.6 J	180	50 U	10,000 U
Anthracene	1.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	191,000	172,000	42,200	29,800
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	0.28 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	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	1000 U
Bromoform	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	1000 U
Bromomethane	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	1000 U
Butylbenzylphthalate	1 U	NS	NS	NS	NS	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	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	5 U	5 U	5 U	1000 U
Carbon tetrachloride	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	1000 U
Chlorobenzene	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	5 U	5 U	5 U	1000 U
Chloroethane	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	1000 U
Chloroform	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	1000 U
Chloromethane	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	1000 U
Chrysene	1 U	NS	NS	NS	NS	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	1000 U
cis-1,3-Dichloropropene	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	1000 U
Dibenz[a,h]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	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	1000 U
Dichlorodifluoromethane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diesel Range Organics	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4.8 1c
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	773	NS	1,240	1,120	979	464	633	35.4	474	505	375	611	703	932	789	552	443	272	1000 U
Fluoranthene	0.39 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	11.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Gasoline Range Organics	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	65,400
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	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	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
Methylene Chloride	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	5 U	5 U	5 U	1000 U
Naphthalene	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	14,100	1,400	1,330	11,200
Nitrobenzene	1 U	NS	NS	NS	NS	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	1.4 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	8.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenol	59.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine	24.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	347	NS	357	258	238	157	104	7.8	72.8	88.4	44.7	126	123	204	160	141	85.5	277	1000 U
Tetrachloroethene	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	1000 U
Toluene	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	35,100	30,900	9,880	4,850
trans-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	1000 U
trans-1,3-Dichloropropene	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	1000 U
Trichloroethene	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	5 U	5 U	5 U	1000 U
Trichlorofluoromethane	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	1000 U
Vinyl chloride	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	1000 U
Xylenes	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	7,360	7,110	2,020	2,200 J

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO36-PZM008			ug/L															
1,1,1,2-Tetrachloroethane	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	5 U	1 U	5 U	5 U
1,1,1-Trichloroethane	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	5 U	1 U	5 U	5 U
1,1,2,2-Tetrachloroethane	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	5 U	1 U	5 U	5 U
1,1,2-Trichloroethane	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	5 U	1 U	5 U	5 U
1,1-Dichloroethane	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	5 U	1 U	5 U	5 U
1,1-Dichloroethene	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	5 U	1 U	5 U	5 U
1,2,4-Trichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	25 U	5 U	25 U	25 U
1,2-Dibromoethane	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	5 U	1 U	5 U	5 U
1,2-Dichlorobenzene	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	5 U	1 U	5 U	5 U
1,2-Dichloroethane	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	5 U	1 U	5 U	5 U
1,2-Dichloropropane	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	5 U	1 U	5 U	5 U
1,3-Dichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	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	5 U	1 U	5 U	5 U
1,4-Dioxane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	8.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	50 U	10 U	50 U	50 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	50 U	10 U	50 U	50 U
2-Methylnaphthalene	6.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	50 U	10 U	50 U	50 U
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	0.85 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	3.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	25.2 J	193	50 U	42.9 J
Anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Benz[a]anthracene	0.22 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	5,380	11,200	9,710	6,780
Benzo[a]pyrene	0.32 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	0.45 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	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	5 U	1 U	5 U	5 U
Bromoform	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	5 U	1 U	5 U	5 U
Bromomethane	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	5 U	1 U	5 U	5 U
Butylbenzylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	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	5 U	1 U	5 U	5 U
Carbon tetrachloride	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	5 U	1 U	5 U	5 U
Chlorobenzene	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	5 U	1 U	5 U	5 U
Chloroethane	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	5 U	1 U	5 U	5 U
Chloroform	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	5 U	1 U	5 U	5 U
Chloromethane	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	5 U	1.9	5 U	5 U
Chrysene	0.23 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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	5 U	1 U	5 U	5 U
cis-1,3-Dichloropropene	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	5 U	1 U	5 U	5 U
Dibenz[a,h]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	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	5 U	1 U	5 U	5 U
Dichlorodifluoromethane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	15.3	44.6	47.4	30.4
Fluoranthene	0.56 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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	5 U	1 U	5 U	5 U
Methylene Chloride	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	4.4 J	1 U	5 U	5 U
Naphthalene	223	411	1,020	363	382	441	355	723	440	435	283	113	752	239	311	248	343	462	424

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Nitrobenzene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	1.3 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	0.89 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	9.1	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	0.4 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	0.82 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	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	5.3	12.5	11.6	9.1
Tetrachloroethene	*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*	*5 U*	*1 U*	*5 U*	*5 U*
Toluene	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	1,160	2,320	2,360	1,700
trans-1,2-Dichloroethene	*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*	*5 U*	*1 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	*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*	*5 U*	*1 U*	*5 U*	*5 U*
Trichloroethene	*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*	*5 U*	*1 U*	*5 U*	*5 U*
Trichlorofluoromethane	*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*	*5 U*	*1 U*	*5 U*	*5 U*
Vinyl chloride	*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*	*5 U*	*1 U*	*5 U*	*5 U*
Xylenes	1,630	1,340	2,160	917	1,210	990	682	1,370	1,150	1,040	631	392	1,610	520	642	536	763	802	816

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	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	5 U	5 U	5 U	5 U	5 U	5 U	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	799 IS	5 U	5 U	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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	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	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	3.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	50 U	50 U	50 U	50 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	50 U	50 U	50 U	50 U
2-Methylnaphthalene	9.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	4.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	50 U	50 U	50 U	50 U
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	2.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	4.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	14.9 J	196	50 U	50.5
Anthracene	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Benz[a]anthracene	0.35 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	22,200	22,400	20,200	16,400
Benzo[a]pyrene	0.27 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	0.56 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	0.56 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	0.51 J	NS	NS	NS	NS	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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	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	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	3.4 J	5 U	5 U
Chrysene	0.33 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-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
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	1 U	NS	NS	NS	NS	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	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	76.1	66	71.5	80.7
Fluoranthene	2.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	3.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	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 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	4.2 J	5 U	5 U	5 U
Naphthalene	690	655	642	995	562	583	766	7,980	538	742	812	655	414	836	766	745	517	792	750

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Nitrobenzene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	7.3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	5.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	1.4	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	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	19.6	15.3	16	19.7
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	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	4,210	3,550	3,620	3,160
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	1,120	1,240	860	1,900	1,040	847	626	836	553	704	675	740	380	739	735	1,150	985	1,100	1,190

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	*CO37-PZM003*			*ug/L*															
1,1,1,2-Tetrachloroethane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1,1-Trichloroethane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1,2,2-Tetrachloroethane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1,2-Trichloroethane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1-Dichloroethane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1-Dichloroethene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromoethane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dichloroethane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dichloropropane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dioxane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Benzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Bromodichloromethane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Bromoform	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Bromomethane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Carbon disulfide	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Carbon tetrachloride	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Chlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Chloroethane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Chloroform	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Chloromethane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
cis-1,2-Dichloroethene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
cis-1,3-Dichloropropene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Dibromochloromethane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Dichlorodifluoromethane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Ethylbenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Methyl tert-butyl ether (MTBE)	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Methylene Chloride	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Naphthalene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Tetrachloroethene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Toluene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
trans-1,2-Dichloroethene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
trans-1,3-Dichloropropene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Trichloroethene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Trichlorofluoromethane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Vinyl chloride	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Xylenes	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO37-PZM038			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	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	NS	5 U
1,1,1-Trichloroethane	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	5 U	5 U	NS	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	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	NS	5 U
1,1,2-Trichloroethane	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	5 U	5 U	NS	5 U
1,1-Dichloroethane	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	5 U	5 U	NS	5 U
1,1-Dichloroethene	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	5 U	5 U	NS	5 U
1,2,4-Trichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	25 U	25 U	NS	25 U
1,2-Dibromoethane	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	5 U	5 U	NS	5 U
1,2-Dichlorobenzene	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	5 U	5 U	NS	5 U
1,2-Dichloroethane	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	5 U	5 U	NS	5 U
1,2-Dichloropropane	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	5 U	5 U	NS	5 U
1,3-Dichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	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	5 U	5 U	NS	5 U
1,4-Dioxane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	6.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	50 U	50 U	NS	50 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	50 U	50 U	NS	50 U
2-Methylnaphthalene	58.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	10.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	50 U	50 U	NS	50 U
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	1.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	6.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	17.3 J	258	NS	39.7 J
Anthracene	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Benz[a]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	13,900	17,600	NS	10,800
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	0.26 J	NS	NS	NS	NS	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	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	NS	5 U
Bromoform	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	5 U	5 U	NS	5 U
Bromomethane	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	5 U	5 U	NS	5 U
Butylbenzylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	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	5 U	5 U	NS	5 U
Carbon tetrachloride	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	5 U	5 U	NS	5 U
Chlorobenzene	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	5 U	5 U	NS	5 U
Chloroethane	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	5 U	5 U	NS	5 U
Chloroform	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	5 U	5 U	NS	5 U
Chloromethane	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	5 U	5.1	NS	5 U
Chrysene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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	5 U	5 U	NS	5 U
cis-1,3-Dichloropropene	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	5 U	5 U	NS	5 U
Dibenz[a,h]anthracene	1 U	NS	NS	NS	NS	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	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	NS	5 U
Dichlorodifluoromethane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	423	442	399	372	322	286	236	244	5 U	238	270	263	263	248	243	244	313	NS	306
Fluoranthene	0.55 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	4.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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	5 U	5 U	NS	5 U
Methylene Chloride	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	4.5 J	5 U	NS	5 U
Naphthalene	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	1,370	1,390	NS	1,800

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Nitrobenzene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	1.7 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	5.6	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	17.3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	0.48 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	3.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	616	813	696	601	540	442	381	12.2	*5 U*	315	338	368	385	374	377	366	470	*NS*	481
Tetrachloroethene	*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*	*5 U*	*5 U*	*NS*	7
Toluene	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	8,190	9,520	*NS*	6,950
trans-1,2-Dichloroethene	*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*	*5 U*	*5 U*	*NS*	*5 U*
trans-1,3-Dichloropropene	*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*	*5 U*	*5 U*	*NS*	*5 U*
Trichloroethene	*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*	*5 U*	*5 U*	*NS*	*5 U*
Trichlorofluoromethane	*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*	*5 U*	*5 U*	*NS*	*5 U*
Vinyl chloride	*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*	*5 U*	*5 U*	*NS*	*5 U*
Xylenes	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	1,930	2,510	*NS*	2,450

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO38-PZM006			ug/L															
1,1,1,2-Tetrachloroethane	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	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	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	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	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	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	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	5 U	5 U	5 U	5 U
1,1-Dichloroethane	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	5 U	5 U	5 U	5 U
1,1-Dichloroethene	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	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	25 U	25 U	25 U	25 U
1,2-Dibromoethane	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	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	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	5 U	5 U	5 U	5 U
1,2-Dichloroethane	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	5 U	5 U	5 U	5 U
1,2-Dichloropropane	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	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	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	5 U	5 U	5 U	5 U
1,4-Dioxane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	50 U	50 U	50 U	50 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	50 U	50 U	50 U	50 U
2-Methylnaphthalene	8.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	3.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	50 U	50 U	50 U	50 U
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	0.61 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	0.58 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	50 U	117	50 U	50 U
Anthracene	0.43 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Benz[a]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	4,660	5,940	1,900	4,210
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	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	5 U	5 U	5 U	5 U
Bromoform	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	5 U	5 U	5 U	5 U
Bromomethane	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	5 U	5 U	5 U	5 U
Butylbenzylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	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	5 U	5 U	5 U	5 U
Carbon tetrachloride	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	5 U	5 U	5 U	5 U
Chlorobenzene	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	5 U	5 U	5 U	5 U
Chloroethane	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	5 U	5 U	5 U	5 U
Chloroform	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	5 U	5 U	5 U	5 U
Chloromethane	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	5 U	5 U	5 U	5 U
Chrysene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	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	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	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	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	127	150	148	134	104	67.4	107	269	76	94.9	72.2	66.8	60.1	50.8	60.7	59	65.2	34.4	74.3
Fluoranthene	0.76 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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	5 U	5 U	5 U	5 U
Methylene Chloride	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	5.3	5 U	5 U	5 U
Naphthalene	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	1,520	1,280	651	1,740

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Nitrobenzene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	2.9	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	3.1	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	0.5 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	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	48.1	35.1	5	51.2
Tetrachloroethene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	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	1,100	859	133	1,260
trans-1,2-Dichloroethene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl chloride	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	838	922	821	941	722	354	776	2,120	557	698	549	559	478	443	496	490	479	108	561

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO38-PZM043			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	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	1 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	1 U	1 U	1 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	1 U	1 U	1 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	1 U	1 U	1 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	1 U	1 U	1 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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 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	1 U	1 U	1 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	1 U	1 U	1 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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 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	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	0.27 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	10 U	2.4 J	10 U	10 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	10 U	10 U	10 U	10 U
2-Methylnaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	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	5 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	0.47 J	10 U	10 U
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	2.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	0.29 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	10 U	217	10 U	10 U
Anthracene	0.59 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Benz[a]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	0.4 J	3.4	19.2	0.54 J
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	0.24 J	NS	NS	NS	NS	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	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	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.88 JBML
Butylbenzylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	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	1 U	1 U	1 U	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	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	1 U	0.45 J	0.33 J	1 U
Chloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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	1 U	1 U	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3.8	1 U	1 U
Chrysene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-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	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	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	1 U	NS	NS	NS	NS	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	1 U	1 U	1 U	1 U
Fluoranthene	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	1.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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	1 U	1 U	1 U	1 U
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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Naphthalene	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	2 U	2 U	2.9	30.5 C8ML

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Nitrobenzene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	0.58 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*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*	*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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	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*	*1 U*	0.46 J	1.1	0.33 J
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*	*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*	*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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	0.34 JB	*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*	*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*	*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 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*	*3 U*	*3 U*	2.4 J	1.4 J

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO39-PZM007			ug/L															
1,1,1,2-Tetrachloroethane	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 U	1 U	1 U	5 U
1,1,1-Trichloroethane	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 U	1 U	1 U	5 U
1,1,2,2-Tetrachloroethane	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 U	1 U	1 U	5 U
1,1,2-Trichloroethane	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 U	1 U	1 U	5 U
1,1-Dichloroethane	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 U	1 U	1 U	5 U
1,1-Dichloroethene	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 U	1 U	1 U	5 U
1,2,4-Trichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	5 U	5 U	5 U	25 U
1,2-Dibromoethane	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 U	1 U	1 U	5 U
1,2-Dichlorobenzene	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 U	1 U	1 U	5 U
1,2-Dichloroethane	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 U	1 U	1 U	5 U
1,2-Dichloropropane	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 U	1 U	1 U	5 U
1,3-Dichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	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 U	1 U	1 U	5 U
1,4-Dioxane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	1.7 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	10 U	10 U	10 U	50 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	10 U	10 U	10 U	50 U
2-Methylnaphthalene	10.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	0.24 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	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	5 U	50 U	50 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	0.39 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	0.39 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	10 U	10.7	7.2 J	31.6 J
Anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Benz[a]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	336	26,800	9,350	396	8,760	13,900	11,400	386	1,490	972	1,970	370	355	664	381	282	767	8,990	1,350
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	1 U	NS	NS	NS	NS	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	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	5 U
Bromoform	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 U	1 U	1 U	5 U
Bromomethane	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	1 U	1 U	1 U	5 U
Butylbenzylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	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	1 U	1 U	1 U	5 U
Carbon tetrachloride	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 U	1 U	1 U	5 U
Chlorobenzene	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	1 U	1 U	1 U	5 U
Chloroethane	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 U	1 U	1 U	5 U
Chloroform	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 U	1 U	1 U	5 U
Chloromethane	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 U	1 U	1 U	5 U
Chrysene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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 U	1 U	1 U	5 U
cis-1,3-Dichloropropene	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 U	1 U	1 U	5 U
Dibenz[a,h]anthracene	1 U	NS	NS	NS	NS	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	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	5 U
Dichlorodifluoromethane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	0.99 J	4.7	52.9	12.6
Fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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 U	1 U	1 U	5 U
Methylene Chloride	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	1	1 U	1 U	5 U
Naphthalene	489	3,770	20,700	538	1,570	1,890	1,450	676	841	918	643	356	880	1,180	902	433	1,540	2,770	970

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Nitrobenzene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	0.84 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	0.33 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	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*	0.55 J	4.9	65.4	10.5
Tetrachloroethene	*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 U*	*1 U*	*1 U*	*5 U*
Toluene	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	9.9	126	1,980	295
trans-1,2-Dichloroethene	*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 U*	*1 U*	*1 U*	*5 U*
trans-1,3-Dichloropropene	*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 U*	*1 U*	*1 U*	*5 U*
Trichloroethene	*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 U*	*1 U*	*1 U*	*5 U*
Trichlorofluoromethane	*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 U*	*1 U*	*1 U*	*5 U*
Vinyl chloride	*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 U*	*1 U*	*1 U*	*5 U*
Xylenes	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	4.7	48	472	90.8

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
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	1 U	1 U	1 U	1 U	1 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	1 U	1 U	1 U	1 U	1 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	1 U	1 U	1 U	1 U	1 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	1 U	1 U	1 U	1 U	1 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	1 U	1 U	1 U	1 U	1 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	1 U	1 U	1 U	1 U	1 U	5 U
1,2,4-Trichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	5 U	5 U	5 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	1 U	1 U	1 U	1 U	1 U	5 U
1,2-Dichlorobenzene	5 U	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 U	1 U	1 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	1 U	1 U	1 U	1 U	1 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	1 U	1 U	1 U	1 U	1 U	5 U
1,3-Dichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	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 U	1 U	1 U	5 U
1,4-Dioxane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	42.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	10 U	10 U	10 U	50 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	10 U	10 U	10 U	50 U
2-Methylnaphthalene	49.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	53.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	10 U	10 U	10 U	50 U
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	1.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	5.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	10 U	64.4	10 U	46.4 J
Anthracene	0.87 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Benz[a]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	1,290	7,900	20,500	5,710
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	0.32 J	NS	NS	NS	NS	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	1 U	1 U	1 U	1 U	1 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	1 U	1 U	1 U	1 U	1 U	5 U
Bromomethane	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	1 U	1 U	1 U	5 U
Butylbenzylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5.2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.1	1 U	1 U	0.39 J	0.98 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	1 U	1 U	1 U	1 U	1 U	5 U
Chlorobenzene	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	1 U	1 U	1 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	1 U	1 U	1 U	1 U	1 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	1 U	1 U	1 U	1 U	1 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	1 U	1 U	1 U	1 U	1 U	5 U
Chrysene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-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	1 U	1 U	1 U	1 U	1 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	1 U	1 U	1 U	1 U	1 U	5 U
Dibenz[a,h]anthracene	1 U	NS	NS	NS	NS	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	1 U	1 U	1 U	1 U	1 U	5 U
Dichlorodifluoromethane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	466	133	428	369	276	298	227	63.3	111	223	140	14.7	7.6	70.7	37.7	12.3	55.9	165	64.7
Fluoranthene	0.59 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	5.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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	1 U	1 U	1 U	5 U
Methylene Chloride	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	0.86 J	1 U	1 U	5 U
Naphthalene	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	1,280	9,820	7,040	1,990

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Nitrobenzene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	4.6	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	95.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	0.27 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	13.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	701	207	710	544	464	442	338	97.9	170	338	203	19	10	98.9	55.3	16.4	81.4	215	97.7
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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*
Toluene	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	377	2,120	6,380	2,260
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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*
Xylenes	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	117	542	1,430	546

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO40-PZM008			ug/L															
1,1,1,2-Tetrachloroethane	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 U	1 U	1 U	1 U
1,1,1-Trichloroethane	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 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	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 U	1 U	1 U	1 U
1,1,2-Trichloroethane	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 U	1 U	1 U	1 U
1,1-Dichloroethane	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 U	1 U	1 U	1 U
1,1-Dichloroethene	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 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	5 U	5 U	5 U	5 U
1,2-Dibromoethane	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 U	1 U	1 U	1 U
1,2-Dichlorobenzene	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 U	1 U	1 U	1 U
1,2-Dichloroethane	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 U	1 U	1 U	1 U
1,2-Dichloropropane	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 U	1 U	1 U	1 U
1,3-Dichlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	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 U	1 U	1 U	1 U
1,4-Dioxane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	1.2 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	10 U	10 U	10 U	10 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	10 U	10 U	10 U	10 U
2-Methylnaphthalene	117 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	2.4 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	10 U	10 U	10 U	10 U
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	2.6 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	6.7 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	10 U	52.2 MLR1	10 U	10 U
Anthracene	0.55 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Benz[a]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	40.5	241 ML	3,900	137
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	0.24 J1c	NS	NS	NS	NS	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	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
Bromoform	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 U	1 U	1 U	1 U
Bromomethane	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 U	1 U	1 U	1 U
Butylbenzylphthalate	1 U	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	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	0.71 J	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	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 U	1 U	1 U	1 U
Chlorobenzene	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 U	1 U	1 U	1 U
Chloroethane	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 U	1 U	1 U	1 U
Chloroform	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 U	1 U	1 U	1 U
Chloromethane	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	1 U	1 U	1 U	1 U
Chrysene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	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 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	1 U	NS	NS	NS	NS	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	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
Dichlorodifluoromethane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	1 U	1.6	70.6	1.3
Fluoranthene	1.2 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	4.9 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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 U	1 U	1 U	1 U
Methylene Chloride	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	1 U	1 U	1 U	1 U
Naphthalene	8,380	17,900	13,800	9,670	376	1,130	89.2	287	8	354	32.6	27	160	2,190	1,720	16	61.3	3,340	68.2

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Nitrobenzene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	4 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	2.1 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	0.76 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	1 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	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	*1 U*	*1 U*	60.9	*1 U*
Tetrachloroethene	*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 U*	*1 U*	*1 U*	*1 U*
Toluene	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	4.7	19.8	1,230	19.6
trans-1,2-Dichloroethene	*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 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*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 U*	*1 U*	*1 U*	*1 U*
Trichloroethene	*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 U*	*1 U*	0.43 JB	*1 U*
Trichlorofluoromethane	*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 U*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*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 U*	*1 U*	*1 U*	*1 U*
Xylenes	849	851	*NS*	984	69.5	150	23	48.4	3.5	47.4	9.4	3.4	16.8	614	153	2.8 J	16.4	540	8.4

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
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	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
1,2,3-Trichlorobenzene	NS	NS	10 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	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	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-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
1,2-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	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	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
1,4-Dioxane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	3.2 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	10 U	6.7 J	10 U	10 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	10 U	10 U	10 U	10 U
2-Methylnaphthalene	8.3 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	5.5 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	10 U	10 U	10 U	10 U
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	0.92 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	0.91 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	10 U	24.1 B	8.2 J	10 U

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Anthracene	0.44 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	1.7	2,520	4,470	6,500
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	1 U	NS	NS	NS	NS	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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	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	1 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	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	0.95 J	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	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	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	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-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
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	1 U	NS	NS	NS	NS	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	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	990	1,020	129	312	66.9	112	130	314	23.2	59.5	392	4.8 J	1 U	20.5	22.2	1 U	137	144	257
Fluoranthene	0.48 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	2.3 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Methylene Chloride	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	1 U	1 U	1 U	1 U
Naphthalene	707	645	120	194	66.6	98.7	186	280	18.9	45.7	271	16	7.3	12	9.4	2 U	75.7	103	133
Nitrobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	2.3 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenol	13.4 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	0.28 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	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	1 U	1 U	4.7	1 U
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	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	0.6 J	1,520	2,110	3,930
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	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	3 U	850	1,200	1,890

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
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	10 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	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	5 U	5 U	5 U	5 U	5 U	5 U	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	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	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	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	8.8 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	50 U	50 U	50 U	50 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	50 U	50 U	50 U	50 U
2-Methylnaphthalene	4.2 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	16.6 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	50 U	50 U	50 U	50 U
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	0.55 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	1.3 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	50 U	76.9 B	50 U	50 U

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Anthracene	0.48 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	224,000	213,000	225,000	169,000
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	0.19 JIS1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	0.54 J1c	NS	NS	NS	NS	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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	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	1.8 J	1.9 J	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	5.3	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	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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-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
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	1 U	NS	NS	NS	NS	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	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	0.25 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	1,260	1,380	1,320	1,280	1,200	845	887	858	605	592	621	659	548	658	580	520	675	919	898
Fluoranthene	0.55 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	1.5 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	17.3 L2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	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	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Methylene Chloride	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*	4.9 J	4.6 JB	*5 U*	*5 U*
Naphthalene	282	330	327	328	190 IS	235	256	322	239	234	306	325	303	385	327	382	328	430	423
Nitrobenzene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	1.6 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	27.9 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	0.39 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	0.68 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	416	562	397	529	474 IS	389	418	420	263	264	287	314	275	362	319	308	362	459	462
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	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	71,800	67,800	81,800	65,700
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*	4 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	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	11,300	12,100	20,600	15,600

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO42-PZM004			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	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	1 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	1 U	1 U	1 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	1 U	1 U	1 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	1 U	1 U	1 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	1 U	1 U	1 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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 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	1 U	1 U	1 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	1 U	1 U	1 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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 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	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	2 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	10 U	2.3 J	10 U	10 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	10 U	10 U	10 U	10 U
2-Methylnaphthalene	6.5 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	4.3 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	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	5 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	0.24 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	0.88 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	10 U	163	6.7 J	10 U
Anthracene	0.34 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Benz[a]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	650	681	526	390	661	1,130	1,100	1 U	738	1,220	215	72.5	51.5	294	5.8	1.1	331	138	27.5
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	1 U	NS	NS	NS	NS	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	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	1 U	1 U	1 U	0.21 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	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	1 U	1 U	0.78 JB	1 U
Butylbenzylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	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	1 U	1 U	1 U	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	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	0.15 J	0.14 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
Chloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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	1 U	1 U	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	1 U	1 U	1 U	1 U	1.4	1 U	1 U	1 U	1 U	1 U	1 U	3.5	1 U	1 U
Chrysene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-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	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	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	1 U	NS	NS	NS	NS	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	0.21 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	103	57.6	149	137	176	164	171	1 U	50.3	52.4	23.2	7.6	6.8	56.2	5.1	1 U	62	23.6	5.9
Fluoranthene	0.26 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	0.88 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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 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	1 U	1 U	1 U	1 U
Naphthalene	94.8 1c	235	847	633	3,650	755	763	6.1	188	155	93.8	22.1	25	210	5.9	2 U	208	168	31.6

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Nitrobenzene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	1.5 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	0.2 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	0.35 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	100	64.3	154	115	89.9	156	154	*1 U*	47.6	49.6	21.6	12.4	4.8	53	4.2	*1 U*	51.6	24.3	3.9
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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	1,310	984	1,300	1,130	1,700	2,230	2,200	*1 U*	1,010	1,930	398	205	107	615	10	1.4	595	231	35.7
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*	*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*	*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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	0.3 JB	*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*	*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*	*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	908	534	1,370	1,330	1,930	1,630	1,730	*3 U*	562	464	356	219	72.3	409	39.5	1.4 J	627	318	121

U: Non-Detect, *NS: Not Sampled*

Coke Oven Historical Data - Cell 3 Groundwater Analytical Results

2019

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	*CO101-PZM*			*ug/L*															
1,1,1,2-Tetrachloroethane	*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 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	*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 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	*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 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	*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 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	*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 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	*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 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichlorobenzene	*NS*	*NS*	*10 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*1 U*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	*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 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	*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 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	*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 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	*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 U*	*1 U*	*1 U*	*1 U*
1,3-Dichlorobenzene	*1 U*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*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 U*	*1 U*	*1 U*	*1 U*
1,4-Dioxane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	3.9 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*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*	*10 U*	5.2 J	*10 U*	*10 U*
2-Chloronaphthalene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*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*	*10 U*	1.1 J	*10 U*	*10 U*
2-Methylnaphthalene	13.5 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	5 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*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 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*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*	*10 U*	*10 U*	*10 U*	*10 U*

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	3.2 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	10.5 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	12.8	377	10 U	7.4 J
Anthracene	2.4 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	0.33 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	9.6	5,580	1,800	4,810
Benzo[a]pyrene	0.25 JISH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	0.45 JISH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	0.3 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	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 U	1 U	1 U	1 U
Bromoform	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 U	1 U	1 U	1 U
Bromomethane	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	1 U	1 U	1 U	0.75 JCL
Butylbenzylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	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	1 U	1 U	1 U	1 U
Carbon tetrachloride	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 U	1 U	1 U	1 U
Chlorobenzene	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 U	1 U	1 U	1 U
Chloroethane	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 U	1 U	1 U	1 U
Chloroform	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	1 U	1 U	1 U	1 U
Chloromethane	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 U	3.7	1 U	1 U
Chrysene	0.35 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	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 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	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 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	1 U	3.5	2.7	5.8
Fluoranthene	3 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	11.3 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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 U	1 U	1 U	1 U
Methylene Chloride	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	1 U	1 U	1 U	1 U
Naphthalene	421 H21c	1,760	781	2,100	4,040	642	753	2,150	107	167	NS	NS	NS	6.2 J	2 U	2 U	103	105	186
Nitrobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	14.6 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenol	4.1 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	1.9 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine	0.26 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	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	1 U	0.6 J	0.75 J	1.5
Tetrachloroethene	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 U	1 U	1 U	1 U
Toluene	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	1 U	157	135	374
trans-1,2-Dichloroethene	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 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	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 U	1 U	1 U	1 U
Trichloroethene	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	1 U	1 U	1 U	1 U
Trichlorofluoromethane	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 U	1 U	1 U	1 U
Vinyl chloride	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 U	1 U	1 U	1 U
Xylenes	270	281	353	388	368 ES	237	174	249	41.5	63.7	NS	NS	NS	15 U	3 U	3 U	43.2	37.6	70.7

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	*CO102-PZM*			*ug/L*															
1,1,1,2-Tetrachloroethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichlorobenzene	*NS*	*NS*	*10 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*1 U*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*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*	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,3-Dichlorobenzene	*1 U*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dioxane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	4.4	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*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*	*50 U*	*50 U*	*50 U*	*50 U*
2-Chloronaphthalene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*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*	*50 U*	*50 U*	*50 U*	*50 U*
2-Methylnaphthalene	31.6	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	8.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*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 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*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*	*50 U*	*50 U*	*50 U*	*50 U*
4-Nitrophenol	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthene	5.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthylene	19.6	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	*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	39.8 J	196	*50 U*	47.6 J

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Anthracene	4.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	0.22 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	9,730	12,800	4,800	12,100
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	0.21 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	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	5 U	5 U	5 U	5 U
Bromoform	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	5 U	5 U	5 U	5 U
Bromomethane	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	5 U	5 U	5 U	12.3 CL
Butylbenzylphthalate	1 U	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	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
Carbon tetrachloride	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	5 U	5 U	5 U	5 U
Chlorobenzene	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	5 U	5 U	5 U	5 U
Chloroethane	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	5 U	5 U	5 U	5 U
Chloroform	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	5 U	5 U	5 U	5 U
Chloromethane	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	5 U	7	5 U	5 U
Chrysene	0.22 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	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	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	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	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	17.4	21.8	8.7	20.3
Fluoranthene	4.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	22.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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	5 U	5 U	5 U	5 U

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Methylene Chloride	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	*5 U*	*5 U*	*5 U*	*5 U*
Naphthalene	872	891	1,180	*NS*	9,900	1,090	1,080	875	874	1,070	970	987	980	*2 U*	917	888	941	422	974
Nitrobenzene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	32	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	5.5	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	2.8	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	0.24 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	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	5.6	6.2	2 J	5.7
Tetrachloroethene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	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	716	834	343	926
trans-1,2-Dichloroethene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl chloride	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	285	209	396	*NS*	372	278	301	238	240	287	292	293	228	*3 U*	249	202	236	96.8	222

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	*CO103-PZM*			*ug/L*															
1,1,1,2-Tetrachloroethane	*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*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	*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*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	*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*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	*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*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	*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*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	*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*	*1 U*	*1 U*	*1 U*
1,2,3-Trichlorobenzene	*NS*	*NS*	*10 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*1 U*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*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*	*25 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	*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*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	*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*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	*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*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	*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*	*1 U*	*1 U*	*1 U*
1,3-Dichlorobenzene	*1 U*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*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*	*1 U*	*1 U*	*1 U*
1,4-Dioxane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	10.8	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*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*	*50 U*	*10 U*	*10 U*	*10 U*
2-Chloronaphthalene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*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*	*50 U*	*10 U*	*10 U*	*10 U*
2-Methylnaphthalene	71.1	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	17.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*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 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*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*	*50 U*	*10 U*	*10 U*	*10 U*
4-Nitrophenol	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthene	3.8	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthylene	30	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	*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	60.4	30.6	*10 U*	10.7

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Anthracene	3.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	0.3 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	995	9,880	14,500	12,100
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	0.28 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	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	1 U	1 U	1 U
Bromoform	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	1 U	1 U	1 U
Bromomethane	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	1 U	1 U	2.5 CL
Butylbenzylphthalate	1 U	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	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	1 U	1 U
Carbon tetrachloride	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	1 U	1 U	1 U
Chlorobenzene	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	1 U	1 U	1 U
Chloroethane	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	1 U	1 U	1 U
Chloroform	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	5 U	1 U	1 U	1 U
Chloromethane	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	1.2	1 U	1 U
Chrysene	0.26 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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	5 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	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	1 U	1 U	1 U
Dibenz[a,h]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	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	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	2.5 J	3	23.6	29.8
Fluoranthene	4.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	8.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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	1 U	1 U	1 U

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Methylene Chloride	*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*	5 J	*1 U*	*1 U*	*1 U*
Naphthalene	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	70.5	98.5	1,810	1,370
Nitrobenzene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	15.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	13.3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	2.8	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	1.5	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	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*	*5 U*	*1 U*	2	2.3
Tetrachloroethene	*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*	*1 U*	*1 U*	*1 U*
Toluene	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	53.6	98.7	901	608
trans-1,2-Dichloroethene	*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*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*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*	*1 U*	*1 U*	*1 U*
Trichloroethene	*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*	*5 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	*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*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*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*	*1 U*	*1 U*	*1 U*
Xylenes	1,490	1,430	1,570	*NS*	1,330	926	887	960	769	520	813	499	*15 U*	27.8	28.2	31.1	47.9	367	453

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	*CO104-PZM*			*ug/L*															
1,1,1,2-Tetrachloroethane	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 U	1 U	1 U	1 U
1,1,1-Trichloroethane	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 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	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 U	1 U	1 U	1 U
1,1,2-Trichloroethane	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 U	1 U	1 U	1 U
1,1-Dichloroethane	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 U	1 U	1 U	1 U
1,1-Dichloroethene	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 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	NS	NS	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	5 U	5 U	5 U	5 U
1,2-Dibromoethane	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 U	1 U	1 U	1 U
1,2-Dichlorobenzene	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 U	1 U	1 U	1 U
1,2-Dichloroethane	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 U	1 U	1 U	1 U
1,2-Dichloropropane	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 U	1 U	1 U	1 U
1,3-Dichlorobenzene	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	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 U	1 U	1 U	1 U
1,4-Dioxane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	10 U	10 U	10 U	10 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	10 U	10 U	10 U	10 U
2-Methylnaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	10 U	10 U	10 U	10 U
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	4.9 J	224 ML	10 U	10 U

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	1.9	0.83 JML	1	3.9
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	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 U	1 U	1 U	1 U
Bromoform	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 U	1 U	1 U	1 U
Bromomethane	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	1 U	1 U	1 U	1 U
Butylbenzylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	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	1 U	1 U	1 U	1 U
Carbon tetrachloride	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 U	1 U	1 U	1 U
Chlorobenzene	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 U	1 U	1 U	1 U
Chloroethane	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 U	1 U	1 U	1 U
Chloroform	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 U	1 U	1 U	1 U
Chloromethane	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 U	8	1 U	1 U
Chrysene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	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 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	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 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	1 U	1 U	1 U	1 U
Fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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 U	1 U	1 U	1 U

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Methylene Chloride	*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 U*	*1 U*	*1 U*	*1 U*
Naphthalene	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*	1.9 J	*2 U*	1 J	1.5 J
Nitrobenzene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	0.38 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	0.42 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	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*	*1 U*	*1 U*	*1 U*	*1 U*
Tetrachloroethene	*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 U*	*1 U*	*1 U*	*1 U*
Toluene	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*	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,2-Dichloroethene	*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 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*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 U*	*1 U*	*1 U*	*1 U*
Trichloroethene	*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 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	*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 U*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*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 U*	*1 U*	*1 U*	*1 U*
Xylenes	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*	*3 U*	*3 U*	*3 U*	*3 U*

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO30-PZM015			ug/L															
1,1,1,2-Tetrachloroethane	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	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	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	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	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	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	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	5 U	5 U	5 U	5 U
1,1-Dichloroethane	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	5 U	5 U	5 U	5 U
1,1-Dichloroethene	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	5 U	5 U	5 U	5 U
1,2,3-Trichlorobenzene	NS	NS	10 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	25 U	25 U	25 U	25 U
1,2-Dibromoethane	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	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	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	5 U	5 U	5 U	5 U
1,2-Dichloroethane	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	5 U	5 U	5 U	5 U
1,2-Dichloropropane	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	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	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	5 U	5 U	5 U	5 U
1,4-Dioxane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	15 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	50 U	50 U	50 U	50 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	50 U	50 U	50 U	50 U
2-Methylnaphthalene	36.3 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	21.6 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	50 U	50 U	50 U	50 U
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	4.7 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	27.3 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	23.9 J	167	50 U	32.8 J

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Anthracene	1.6 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	51,000	69,900	53,300	56,300
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	0.28 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	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	5 U	5 U	5 U	5 U
Bromoform	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	5 U	5 U	5 U	5 U
Bromomethane	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	5 U	5 U	5 U	7.4 CL
Butylbenzylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	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	5 U	5 U	5 U	5 U
Carbon tetrachloride	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	5 U	5 U	5 U	5 U
Chlorobenzene	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	5 U	5 U	5 U	5 U
Chloroethane	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	5 U	5 U	5 U	5 U
Chloroform	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	5 U	5 U	5 U	5 U
Chloromethane	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	5 U	5.5	5 U	5 U
Chrysene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	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	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	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	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diesel Range Organics	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4.2 1c
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	107	85.4	115	124	101 IS	100	88.9	71.3	NS	118	102	84.5	95.4	39.9	111	87.3	117	84.8	133
Fluoranthene	1.7 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	10.2 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Gasoline Range Organics	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	116,000
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Isopropylbenzene	*NS*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Methyl tert-butyl ether (MTBE)	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Methylene Chloride	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*	*5 U*	*5 U*	*5 U*	*5 U*
Naphthalene	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	2,710	9,090	8,640	5,540
Nitrobenzene	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	8.7 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	10.8 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	0.98 JH21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	2 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	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	13.9	15.1	11.7	17.7
Tetrachloroethene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	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	3,890	5,110	4,560	4,240
trans-1,2-Dichloroethene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl chloride	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	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	1,190	1,590	1,230	1,840

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
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	NS	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	1 U	NS	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	1 U	NS	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	1 U	NS	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	1 U	NS	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	1 U	NS	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	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	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	NS	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	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
1,2-Dichloroethane	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 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	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	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 U	1 U	1 U	1 U
1,4-Dioxane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	0.69 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	10 U	10 U	10 U	10 U
2-Chloronaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	10 U	10 U	10 U	1.3 J
2-Methylnaphthalene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	0.2 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	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 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	10 U	10 U	10 U	10 U
4-Nitrophenol	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	4.7 J	187	10 U	5.8 J

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	4.2	85.5	321	49.8 MH
Benzo[a]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	1 U	NS	NS	NS	NS	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	NS	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	1 U	NS	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	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
Butylbenzylphthalate	1 U	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	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	0.38 J	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	1 U	NS	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	1 U	NS	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	1 U	NS	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	1 U	NS	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	1 U	NS	1 U	1.3	1 U	1 U	1 U	1 U	1 U	4.9	1 U	1 U
Chrysene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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 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	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	1 U	NS	NS	NS	NS	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	NS	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	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diesel Range Organics	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.22 1c
Diethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	1 U	1 U	0.62 J	1 U
Fluoranthene	0.23 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Gasoline Range Organics	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	109 J
Hexachlorobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2015	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Isopropylbenzene	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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 U	1 U	1 U	1 U
Methylene Chloride	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 U	1 U	1 U	1 U
Naphthalene	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	2 U	1.5 J	29	2 U
Nitrobenzene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	0.22 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenol	0.27 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	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	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	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	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	1 U	2	20.6	1 U
trans-1,2-Dichloroethene	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 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	NS	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	1 U	NS	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	1 U	NS	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	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	1 U	1 U	1 U	1 U
Xylenes	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	3 U	3 U	9.6	3 U

U: Non-Detect, *NS: Not Sampled*

Coke Oven Historical Data - Cell 5 Groundwater Analytical Results

2019

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	*CO23-PZM008*			*ug/L*															
1,1,1,2-Tetrachloroethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*	*2 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*NS*	*1 U*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*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*	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,3-Dichlorobenzene	*NS*	*1 U*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dioxane	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	*NS*	41.1 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*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*	*50 U*	*50 U*	*50 U*	*50 U*
2-Chloronaphthalene	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*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*	*50 U*	*50 U*	*50 U*	*50 U*
2-Methylnaphthalene	*NS*	27.5 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	*NS*	43.2 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chlorophenyl phenyl ether	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*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*	*50 U*	*50 U*	*50 U*	*50 U*

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
4-Nitrophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	2.4 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	11 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	27.9 J	28.9 JB	50 U	79
Anthracene	NS	1.6 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	0.32 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NS	531	428	727	636	NS	NS	NS	NS	564	657	600	403	163	264	460	404	152	599
Benzo[a]pyrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	0.3 JISH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	1.5 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	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	5 U	5 U	5 U	5 U
Bromoform	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	5 U	5 U	5 U	5 U
Bromomethane	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	5 U	5 U	5.1 R1	8.7 CL
Butylbenzylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	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	5 U	5 U	5 U	5 U
Carbon tetrachloride	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	5 U	5 U	5 U	5 U
Chlorobenzene	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	5 U	5 U	5 U	5 U
Chloroethane	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	5 U	5 U	5 U	5 U
Chloroform	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	5 U	5 U	5 U	5 U
Chloromethane	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	5 U	5 U	5 U	5 U
Chrysene	NS	0.33 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	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	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	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	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NS	22.2	17.3	54.4	31.6	NS	NS	NS	NS	23.2	34.2	25	16.8	10	100 U	22.5	19.6	8.9	27.8
Fluoranthene	NS	2.1 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	7.8 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	1 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	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Indeno[1,2,3-c,d]pyrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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	5 U	5 U	5 U	5 U
Methylene Chloride	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	5 U	4.2 JB	5 U	5 U
Naphthalene	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	2,760	1,720	1,620 MH	3,250
Nitrobenzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	NS	9.3 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenol	NS	41.8 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	NS	1.4 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine	NS	8.1 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	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	17.3	15.8	3.7 J	25.4
Tetrachloroethene	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	5 U	5 U	5 U	5 U
Toluene	NS	276	217	424	413	NS	NS	NS	NS	217	374	310	26.8	20.3	56.8 J	197	181	30.7	303
trans-1,2-Dichloroethene	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	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	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	5 U	5 U	5 U	5 U
Trichloroethene	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	5 U	5 U	5 U	5 U
Trichlorofluoromethane	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	5 U	5 U	5 U	5 U
Vinyl chloride	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	5 U	5 U	5 U	5 U
Xylenes	NS	383	300	855	474	NS	NS	NS	NS	373	543	392	265	152	150 J	332	314	140	431

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO24-PZM007			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	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	1 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	1 U	1 U	1 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	1 U	1 U	1 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	1 U	1 U	1 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	1 U	1 U	1 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	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 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	1 U	1 U	1 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	1 U	1 U	1 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	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 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	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	0.53 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	10 U	3.4 J	10 U	10 U
2-Chloronaphthalene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NS	86.8 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	10 U	10 U	10 U	10 U
4-Nitrophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	17.9 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	58.5 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	11.2	16.7 B	18.1	10 J

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Anthracene	NS	8.9 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	2.5 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	1.5 C8	1.3	160	1 U
Benzo[a]pyrene	NS	2 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	3.8 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	0.5 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	3.8 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	0.68 JH21c	NS	NS	NS	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	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	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	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	1 U	1 U	0.83 J	1 JCL
Butylbenzylphthalate	NS	1 U	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	1 U	1 U	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	1 U	1 U	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	1 U	1 U	1 U	1 U	1 U	0.27 J	1 U	1 U	0.35 J	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	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	1 U	1 U	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	1 U	1 U	1.4	1 U	1 U	0.84 J	1 U	1 U	1 U	1.1	1 U	1 U	1 U	1 U
Chrysene	NS	2.1 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-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	1 U	0.78 J	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	NS	1 U	NS	NS	NS	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	5.4	5.7	6	4.5
Fluoranthene	NS	18 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	27.6 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	0.58 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
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*	1.7	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Naphthalene	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	2,190	3,230	4,070	2,190
Nitrobenzene	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	86.9 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	10.3 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	22.7 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*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*	0.56 J	*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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	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	1.3	1.2	37.3	1.6
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*	*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*	*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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	0.49 J	*1 U*	*1 U*	1.5	*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*	*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*	*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	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	7.2	7.4	21.5	5.9

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO26-PZM007			ug/L															
1,1,1,2-Tetrachloroethane	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 U	1 U	NS	1 U
1,1,1-Trichloroethane	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 U	1 U	NS	1 U
1,1,2,2-Tetrachloroethane	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 U	1 U	NS	1 U
1,1,2-Trichloroethane	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 U	1 U	NS	1 U
1,1-Dichloroethane	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 U	1 U	NS	1 U
1,1-Dichloroethene	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 U	1 U	NS	1 U
1,2,3-Trichlorobenzene	NS	NS	NS	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	5 U	5 U	NS	5 U
1,2-Dibromoethane	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 U	1 U	NS	1 U
1,2-Dichlorobenzene	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 U	1 U	NS	1 U
1,2-Dichloroethane	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 U	1 U	NS	1 U
1,2-Dichloropropane	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 U	1 U	NS	1 U
1,3-Dichlorobenzene	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	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 U	1 U	NS	1 U
1,4-Dioxane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	0.28 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	0.23 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	41.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	10 U	10 U	NS	10 U
2-Chloronaphthalene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	10 U	10 U	NS	2.8 J
2-Methylnaphthalene	NS	80.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	31.6	NS	NS	NS	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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	1 U	NS	NS	NS	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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	10 U	10 U	NS	10 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	1 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	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Acenaphthene	NS	3.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	62.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	10 U	4.8 JB	NS	11.4
Anthracene	NS	3.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	1 U	406	231	129	365	288	324	410	1 U	351	366	218	281	205	276	98.2	201	NS	314
Benzo[a]pyrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	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 U	1 U	NS	1 U
Bromoform	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 U	1 U	NS	1 U
Bromomethane	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	1 U	2	NS	2.1 B
Butylbenzylphthalate	NS	1 U	NS	NS	NS	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	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	1 U	1 U	NS	1 U
Carbon tetrachloride	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 U	1 U	NS	1 U
Chlorobenzene	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	1 U	1 U	NS	0.78 J
Chloroethane	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 U	1 U	NS	1 U
Chloroform	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 U	1 U	NS	1 U
Chloromethane	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 U	1 U	NS	1 U
Chrysene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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	1 U	1 U	NS	1 U
cis-1,3-Dichloropropene	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 U	1 U	NS	1 U
Dibenz[a,h]anthracene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	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 U	1 U	NS	1 U
Dichlorodifluoromethane	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diesel Range Organics	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4.9 1c
Diethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	4.2	9.8	NS	14.1
Fluoranthene	NS	2.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Gasoline Range Organics	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1,720
Hexachlorobenzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Hexachlorocyclopentadiene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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 U	1 U	NS	1 U
Methylene Chloride	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	1 U	1 U	NS	1 U
Naphthalene	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	961	2,590	NS	3,390
Nitrobenzene	NS	1 U	NS	NS	NS	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	1.9 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	NS	28.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenol	NS	19.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	NS	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine	NS	38.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	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	18.6	29	NS	64.8
Tetrachloroethene	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 U	1 U	NS	1 U
Toluene	1 U	262	136	73.7	206	163	157	236	1 U	202	201	106	153	130	142	51.4	117	NS	179
trans-1,2-Dichloroethene	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 U	1 U	NS	1 U
trans-1,3-Dichloropropene	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 U	1 U	NS	1 U
Trichloroethene	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 U	1 U	NS	1 U
Trichlorofluoromethane	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 U	1 U	NS	1 U
Vinyl chloride	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 U	1 U	NS	1 U
Xylenes	3 U	312	195	110	344	221	220	337	1 U	242	281	170	205	236	259	84.5	207	NS	300

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO26-PZM032			ug/L															
1,1,1,2-Tetrachloroethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
1,1,1-Trichloroethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
1,1,2,2-Tetrachloroethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
1,1,2-Trichloroethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
1,1-Dichloroethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
1,1-Dichloroethene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
1,2,4-Trichlorobenzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	NS	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5 U	5 U
1,2-Dibromoethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
1,2-Dichlorobenzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
1,2-Dichloroethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
1,2-Dichloropropane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
1,3-Dichlorobenzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
2,4,5-Trichlorophenol	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	10 U	10 U
2-Chloronaphthalene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	10 U	10 U
2-Methylnaphthalene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	1 U	NS	NS	NS	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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	1 U	NS	NS	NS	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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	10 U	10 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	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	1 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	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Acetone	NS	25 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	10 U	10 U
Anthracene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3.9	0.5 J
Benzo[a]pyrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	0.21 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Bromoform	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Bromomethane	NS	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.5	1.9 B
Butylbenzylphthalate	NS	1 U	NS	NS	NS	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	NS	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Carbon tetrachloride	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Chlorobenzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Chloroethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Chloroform	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Chloromethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Chrysene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
cis-1,3-Dichloropropene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Dibenz[a,h]anthracene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Diesel Range Organics	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.092 J1c
Diethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Fluoranthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Gasoline Range Organics	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	200 U
Hexachlorobenzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	1 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	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Isophorone	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Methylene Chloride	NS	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Naphthalene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	38.5	48.6 C8
Nitrobenzene	NS	1 U	NS	NS	NS	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	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Tetrachloroethene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Toluene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.6	1 U
trans-1,2-Dichloroethene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
trans-1,3-Dichloropropene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Trichloroethene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Trichlorofluoromethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Vinyl chloride	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1 U	1 U
Xylenes	NS	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2 J	3 U

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO55-PZM000			ug/L															
1,1,1,2-Tetrachloroethane	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 U
1,1,1-Trichloroethane	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 U
1,1,2,2-Tetrachloroethane	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 U
1,1,2-Trichloroethane	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 U
1,1-Dichloroethane	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 U
1,1-Dichloroethene	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 U
1,2,3-Trichlorobenzene	NS	NS	NS	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	5 U	5 U	5 U	5 U
1,2-Dibromoethane	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 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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	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 U
1,2-Dichloropropane	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 U
1,3-Dichlorobenzene	NS	NS	NS	1 U	NS	NS	NS	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	10 U	2.6 J	10 U	10 U
2-Hexanone	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	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)	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	10 U	10 U	10 U	10 U
Acetone	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	8.7 J	320	15.4	10 U
Benzene	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	6	3.5	23.5	1 U
Bromodichloromethane	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 U
Bromoform	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 U
Bromomethane	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	1 U	5.2 B	4.2	1.2 CL
Carbon disulfide	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 U
Carbon tetrachloride	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 U
Chlorobenzene	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	1 U	1 U	1 U	1 U
Chloroethane	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 U
Chloroform	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 U
Chloromethane	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	1 U	1 U	1.9	1 U
cis-1,2-Dichloroethene	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	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	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 U
Dibromochloromethane	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 U
Dichlorodifluoromethane	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	1 U	1 U	0.63 J	1 U
Hexachlorobutadiene	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	1 U	NS	NS	NS	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	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 U
Naphthalene	77.7	NS	176	31.9	92.2	56	71	2 U	76.7	91.7	331	2 J	2 U	141	2 U	8.9	5.8	45.4	1.7 J

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Styrene	*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*	*1 U*	*1 U*	0.43 J	*1 U*
Tetrachloroethene	*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 U*
Toluene	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*	0.82 J	3.8	7.6	0.32 J
trans-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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*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 U*
Trichloroethene	*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 U*
Trichlorofluoromethane	*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 U*
Vinyl chloride	*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 U*
Xylenes	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*	*3 U*	4.2	10.6	*3 U*

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO56-PZP001			ug/L															
1,1,1,2-Tetrachloroethane	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	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	1 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	1 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	1 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	1 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	1 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	10 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	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	1 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	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	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	1 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	1 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	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	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	5 U	5 U	5 U	5 U
1,4-Dioxane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	38.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	50 U	50 U	50 U	50 U
2-Chloronaphthalene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	50 U	50 U	50 U	50 U
2-Methylnaphthalene	NS	43.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	28.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	50 U	50 U	50 U	50 U
4-Nitrophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	50 U	70.1 B	28.2 J	77.3

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Anthracene	NS	2.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	549	639	359	484	380	391	503	437	345	385	438	346	319	192	203	246	229	248	361
Benzo[a]pyrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	0.24 J	NS	NS	NS	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	1 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	1 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	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	11	12 CL
Butylbenzylphthalate	NS	1 U	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	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
Carbon tetrachloride	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	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	0.6 J	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	1 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	1.5 J	5 U	5 U	0.5 J	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	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chrysene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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	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	1 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	1 U	NS	NS	NS	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	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	9.4	8.2	8.6	10.5
Fluoranthene	NS	1.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	14.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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	5 U	5 U	5 U	5 U

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Methylene Chloride	*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*	*5 U*	4.4 JB	*5 U*	*5 U*
Naphthalene	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	2,400	1,930	2,200 MHML	2,790
Nitrobenzene	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	15.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	16.8	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	1.1	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	22.8	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	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	52.2	41.2	38.9	86
Tetrachloroethene	*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*	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	345	360	143	208	176	87.3	136	186	149	103	140	169	177	18.3	45.7	117	88.1	61.4	122
trans-1,2-Dichloroethene	*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*	*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*	*1 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*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	2.3 J	*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*	*1 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*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	401	432	317	405	281	256	295	313	196	282	289	219	266	190	182	200	186	190	258

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO57-PZP002			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	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	1 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	1 U	1 U	1 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	1 U	1 U	1 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	1 U	1 U	1 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	1 U	1 U	1 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	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 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	1 U	1 U	1 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	1 U	1 U	1 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	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 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	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	10 U	3.7 J	10 U	10 U
2-Chloronaphthalene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NS	0.3 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	10 U	10 U	10 U	10 U
4-Nitrophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	10 U	321	9.1 J	6 J

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Anthracene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	1 U	1 U	2.4	1 U
Benzo[a]pyrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	1 U	NS	NS	NS	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	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	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	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	0.86 JCL	2.5	0.92 J	2.3 CL
Butylbenzylphthalate	NS	1 U	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	1 U	1 U	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	1 U	1 U	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	1 U	1 U	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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	1 U	1 U	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	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	1 U	3.2	1 U	1 U
Chrysene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	NS	1 U	NS	NS	NS	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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	0.36 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Methylene Chloride	*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*	*1 U*	*1 U*	*1 U*
Naphthalene	*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*	*2 U*	10.6	4.6	1.2 J
Nitrobenzene	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	0.5 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	0.27 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*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	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*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	1.1	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*	*1 U*	0.45 J	0.74 J	*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*	*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*	*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*	*1 U*	*1 U*	*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*	*1 U*	*1 U*	*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*	*1 U*	0.33 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*
Xylenes	*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*	*3 U*	*3 U*	*3 U*	*3 U*

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	*CO58-PZM001*			*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*	*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*	*1 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*	*1 U*	*1 U*	*1 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*	*1 U*	*1 U*	*1 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*	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*	0.4 J	0.56 J	*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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*	*2 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*NS*	*1 U*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*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*	*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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 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*	*1 U*	*1 U*	*1 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*	*1 U*	*1 U*	*1 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*	*1 U*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 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*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	*NS*	16.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*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*	*10 U*	*10 U*	*10 U*	*10 U*
2-Chloronaphthalene	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*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*	*10 U*	*10 U*	*10 U*	*10 U*
2-Methylnaphthalene	*NS*	45.3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	*NS*	16.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chlorophenyl phenyl ether	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*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*	*10 U*	*10 U*	*10 U*	*10 U*
4-Nitrophenol	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthene	*NS*	4.4	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthylene	*NS*	25.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	*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	*10 U*	72.2	6.8 J	*10 U*

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Anthracene	NS	2.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	220	195	231	270	247	272	276	316	187	256	238	98.7	185	41.4	195	114	180	174	224
Benzo[a]pyrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	0.22 J	NS	NS	NS	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	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	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	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	1 U	0.62 J	1.1	1.7 CL
Butylbenzylphthalate	NS	1 U	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	1 U	1 U	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	1 U	1 U	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	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	1 U	1 U	1 U	1 U
Chloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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	1 U	1 U	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	1 U	1 U	3.8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.82 J	1 U	1 U
Chrysene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-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	1 U	0.26 J	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	NS	1 U	NS	NS	NS	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	5.2	7.9	9.4	10.9
Fluoranthene	NS	2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	10.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	0.48 JL2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Methylene Chloride	*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*	*1 U*	*1 U*	*1 U*	*1 U*
Naphthalene	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	701	1,320	1,870	1,250
Nitrobenzene	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	1.5 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	11.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	1.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	1.1	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	3.6	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	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	8.1	14.9	21.5	23
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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	68.2	56	85.6	108	93.2	138	128	146	63.3	106	93.9	34.5	59.9	13.3	41.5	30.3	51.7	75.4	92.5
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*	*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*	*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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	0.52 J	*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*	*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*	*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	190	182	201	239	218	245	199	249	102	213	207	83.5	155	42.4	149	76.6	123	156	180

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO59-PZP002			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	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	1 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	1 U	1 U	1 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	1 U	1 U	1 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	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	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	NS	NS	NS	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 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	1 U	1 U	1 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	1 U	1 U	1 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	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 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	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	30.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	10 U	3.1 J	10 U	10 U
2-Chloronaphthalene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NS	23.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	30.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	10 U	0.89 J	10 U	10 U
4-Nitrophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	3.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	10.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	6.2 J	304	6.2 J	10 U

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Anthracene	NS	1.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	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	1 U	2.4	4.6	7.4
Benzo[a]pyrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	0.24 J	NS	NS	NS	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	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	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	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	1 U	1.6	1.8	2.2 CL
Butylbenzylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	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	1 U	1 U	1 U	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	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	0.52 J	1 U	1 U	1 U	0.43 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	1 U	1 U	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	1 U	1 U	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	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	1 U	1.5	1.5	1 U
Chrysene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-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	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	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	1 U	NS	NS	NS	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	1 U	1 U	1 U	1 U
Fluoranthene	NS	0.86 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	6.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Methylene Chloride	*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*	*1 U*	*1 U*	*1 U*	*1 U*
Naphthalene	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	*2 U*	5.7	19.9	26.1
Nitrobenzene	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	6.8	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	13.6	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	0.51 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	15.3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	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	*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*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	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	*1 U*	1.3	1.5	2.8
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*	*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*	*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*	*1 U*	*1 U*	*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*	*1 U*	*1 U*	*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*	*1 U*	*1 U*	*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	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	*3 U*	1.3 J	3.1	5.2

U: Non-Detect, *NS: Not Sampled*

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Location ID:	CO60-PZP001			ug/L															
1,1,1,2-Tetrachloroethane	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 U	1 U	1 U	1 U
1,1,1-Trichloroethane	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 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	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 U	1 U	1 U	1 U
1,1,2-Trichloroethane	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 U	1 U	1 U	1 U
1,1-Dichloroethane	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 U	1 U	1 U	1 U
1,1-Dichloroethene	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 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	NS	NS	NS	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	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	5 U	5 U	5 U	5 U
1,2-Dibromoethane	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 U	1 U	1 U	1 U
1,2-Dichlorobenzene	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 U	1 U	1 U	1 U
1,2-Dichloroethane	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 U	1 U	1 U	1 U
1,2-Dichloropropane	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 U	1 U	1 U	1 U
1,3-Dichlorobenzene	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	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 U	1 U	1 U	1 U
1,4-Dioxane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	55.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	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	10 U	10 U	10 U	10 U
2-Chloronaphthalene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	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	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NS	62.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	55.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	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	10 U	10 U	10 U	10 U
4-Nitrophenol	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	44.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	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	10 U	10.7 B	12.8	10.9

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Anthracene	NS	1.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	500	467	186	371	189	189	28.3	151	133	260	310	166	400	172	218	197	147	181	254
Benzo[a]pyrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	2.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	0.26 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	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 U	1 U	1 U	1 U
Bromoform	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 U	1 U	1 U	1 U
Bromomethane	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	1 U	4.1	3.9	1.6 CL
Butylbenzylphthalate	NS	1 U	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	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 U	1 U	1 U	1 U
Carbon tetrachloride	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 U	1 U	1 U	1 U
Chlorobenzene	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	1 U	1 U	1 U	1 U
Chloroethane	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 U	1 U	1 U	1 U
Chloroform	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	1 U	1 U	1 U	1 U
Chloromethane	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	1 U	1 U	3.8	1 U
Chrysene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	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	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	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 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	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 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	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	6.5	5	5.8	8
Fluoranthene	NS	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	13.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	0.4 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	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 U	1 U	1 U	1 U

U: Non-Detect, NS: Not Sampled

Parameter	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	3/1/2019	6/1/2019	10/1/2019	12/1/2019
Methylene Chloride	*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*	*1 U*	*1 U*	*1 U*	*1 U*
Naphthalene	7,640	2,420	1,050	2,180	892	1,010	198	676	373	1000	2,020	446	1,620	1,700	2,470	1,540	1,310	2,100	1,590
Nitrobenzene	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	10	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	21.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	0.87 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	10.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	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	34.6	4.7	15	33.9
Tetrachloroethene	*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 U*	*1 U*	*1 U*	*1 U*
Toluene	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	53.8	16.2	13.4	20.8
trans-1,2-Dichloroethene	*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 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*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 U*	*1 U*	*1 U*	*1 U*
Trichloroethene	*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*	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	*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 U*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*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 U*	*1 U*	*1 U*	*1 U*
Xylenes	270	290	153	278	123	96.8	16.7	73.9	47.3	140	176	63.1	183	148	167	148	111	117	172

U: Non-Detect, NS: Not Sampled