From:	Anne.Burnham@parsons.com
To:	Spellman, John (DEC)
Cc:	tlblazicek@nyseg.com; ray.dhollander@parsons.com; Amy.Ruta@parsons.com; Peter.Scharfschwerdt@parsons.com
Subject:	Clark Street 2021 Memo
Date:	Monday, April 11, 2022 12:12:10 PM
Attachments:	image001.png image002.png Original Submittal for Facility #706008 (Ibderola Avingrid - Clark St.).msg

Mr. Spellman,

At the link below you will find the 2021 summary memo for the Clark Street site. The EDD for the GW portion was submitted separately last week. Should you have any questions/comments, please let us know!

Clark Street 2021 Report

Thank you,
Anne

Anne L. Burnham
Senior Scientist
1442 S Tryon Street, Suite 700
Charlotte, NC 28203
anne.burnham@parsons.com - Mobile +1 315.546.5318
PARSONS - Envision More
www.parsons.com | LinkedIn | Twitter | Facebook

PARSONS

Phone: 315.451.9560
301 Plainfield Road, Suite 350 | Syracuse, New York 13212

MEMORANDUM

April 11, 2022

To: John Spellman, P.E., New York State Department of Environmental Conservation

From: Anne Burnham, Parsons, on behalf of New York State Electric and Gas Corporation

Subject: Clark Street Former MGP Site – Quarterly Monitoring and Annual Sampling Update

The Clark Street Former Manufactured Gas Plant (MGP) Site (Site) is a 3-acre site in Auburn, New York that has been remediated to commercial-use criteria as per an Order on Consent entered by the New York State Electric and Gas Corporation (NYSEG) with the New York State Department of Environmental Conservation (NYSDEC). This memo serves as an update regarding monitoring and sampling activities in 2021 and early 2022 at the Clark Street Site.

1.0 Background and Monitoring in 2021

Following the completion of remedial activities at the Site, the Site Management Plan (SMP) was developed to detail long -term monitoring at the Site, which began in 2021. Monitoring consists of three main components:

- A network of non-aqueous phase liquid (NAPL) collection wells was installed at the Site in 2021, as stipulated in the March 2009 Record of Decision (ROD). The recovery wells were installed into bedrock with the goal of recovering residual NAPL, or free product, to the extent practical, and supporting the achievement of Site remedial goals. NAPL removal efforts will be conducted on a quarterly basis for a minimum of two years, continuing until negligible quantities (<0.01 gallons) of NAPL are recovered for three successive collection events (quarters) for each well.
- In accordance with the SMP), a network of six monitoring wells will be utilized for annual groundwater monitoring at the Site. Overburden monitoring well MW-01B is located at the southeastern border of the Site and serves as an upgradient monitoring well. Three bedrock wells north of the Owasco Outlet (MW-08D, MW-09D, and MW-10D) will also be monitored due to historic impacts. Two additional overburden monitoring wells (PAR-MW-01 and PAR-MW-02) were installed at the Site in 2021 to supplement the pre-existing well network. Details related to well installation are discussed in **Section 2.0**, below. Groundwater samples will be collected annually and analyzed for Site-specific contaminants of concern (COCs). Sampling conducted in 2021 marked the first post-remedy monitoring event. At the request of NYSDEC, groundwater analyses also included emergent contaminants, specifically per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane, for the initial annual sampling event.
- Vegetation monitoring to assess the status of invasive species at the Site and overall vegetative cover, as well as a site inspection was completed in 2021 in accordance with the SMP.

2.0 Well Installation

Two monitoring wells and 10 recovery wells were installed at the Site between March 29, 2021, and April 29, 2021.

2.1 Recovery Wells

Ten recovery wells, RW-01 through RW-10, were installed at the Site, as shown on **Figure 1**. Recovery wells were placed along the northern boundary of the Site, adjacent to the Owasco Outlet.

The recovery wells were installed with a CME-55 drilling rig using a combination of hollow-stem augers and rock core tooling. Overburden soils were collected using a 2-inch split-spoon. Recovered soils were logged, described, and screened for volatile organic compounds (VOCs) using a photoionization detector (PID). The bedrock interface was identified through a combination of observing shale fragments in the split-spoon and hollow-stem auger refusal. Bedrock coring was performed using HQ3-sized tooling. Rock cores were logged and described, and a rock quality designation (RQD) was calculated for each core run. The core hole was installed a minimum of 5 feet into competent rock, as dictated by RQD. Once total depth was achieved, the borehole diameter was increased via reaming from 3.7 inches (HQ3) to 5.9 inches.

Recovery wells were constructed using the following materials:

- 4-inch diameter schedule 40 (SCH40) PVC riser
- 4-inch diameter SCH40 PVC .050-slot screen
- 4-inch diameter SCH40 PVC sump

Boring and well construction logs are included in **Appendix A**. Well screen and sump intervals are shown in **Table 1**.

Following installation, recovery wells were developed to maximize flow formation water through the sand pack and well screen. Well development consisted of removing three to five well volumes from each well. Purge water and drill cuttings were containerized in unused New York State Department of Transportation (NYSDOT) approved 55-gallon stainless steel drums. Drums containing liquids were consolidated and staged within a secondary containment cell prior to off-site disposal.

Recovery well as-built locations and elevations were surveyed by Thew Associates, a New York state licensed professional land surveyor, in May 2021.

2.2 Monitoring Wells

Two monitoring wells, PAR-MW-01 and PAR-MW-02, were installed at the Site, as shown on **Figure 1**. The monitoring wells were drilled into the overburden using hollow-stem augers, and soils were collected using a 2-inch split-spoon. Recovered soils were logged, described, and screened for VOCs using a PID. The monitoring well was constructed using the following materials:

- 2-inch diameter SCH40 PVC riser
- 2-inch diameter SCH40 PVC .010-slot screen

Boring and well construction logs are included in **Appendix A**. Well screen and sump intervals are shown in **Table 1**.

Following installation, monitoring wells were developed until three to five well volumes were removed. The wells were allowed to recover prior to groundwater sample collection. Purge water and drill cuttings were containerized in unused NYSDOT-approved 55-gallon stainless steel drums. Drums containing liquids were consolidated and staged within a secondary containment cell prior to off-site disposal.

Monitoring well as-built locations and elevations were surveyed by Thew Associates, a New York state licensed professional land surveyor, in May 2021.

3.0 Groundwater Flow Direction

3.1 Overburden Well Gaging Results – 2021

Overburden wells, or wells with their entire screen length above bedrock, were gaged during the 2021 annual groundwater sampling event on September 30, 2021. The water depths for overburden wells are shown in **Table 1.**

3.2 Bedrock Well Gaging Results – 2021

Bedrock wells, or wells that are screened partially or completely within bedrock, were gaged during 2021 annual groundwater sampling event on September 30, 2021.The water depths of bedrock wells are shown in **Table 1**.

3.3 Hydraulic Gradient

Local topography and proximity of the Site to the Owasco Outlet suggests groundwater in the overburden likely flows in a northerly direction, where it discharges into the Owasco Outlet, as shown on **Figure 2a**. Contours were not generated for the overburden due to the presence of only two wells screened above bedrock.

Water level data collected in Fall 2021 was used to generate contours of the hydraulic gradient within bedrock at the Site. Groundwater in bedrock is predominantly controlled by fractures in the Onondaga Limestone and appears to be flowing in a northwesterly direction, as shown on **Figure 2b**.

4.0 Groundwater Sampling

Annual groundwater sampling will be conducted at the Site, as specified in the SMP. The 2021 annual groundwater sampling event was conducted on September 30, 2021. The next groundwater sampling event is expected to take place late in the third quarter, or early in the fourth quarter, of 2022.

As specified in the SMP, groundwater samples collected for annual monitoring will be analyzed for VOCs, specifically benzene, toluene, ethylbenzene, and xylenes (BTEX), and total polycyclic aromatic hydrocarbons (PAHs).

Groundwater samples collected during the 2021 annual monitoring event were analyzed for emergent contaminants, specifically PFAS and 1,4-dioxane, at the request of NYSDEC. This is expected to be a singular occurrence, with future groundwater samples being analyzed for parameters listed in the SMP and summarized above.

4.1 Groundwater Sampling Methods and Techniques

The 2021 annual groundwater monitoring event consists of samples being collected from MW-01B, MW-08D, MW-09D, MW-10D, PAR-MW-01, and PAR-MW-02. These monitoring wells were redeveloped one week prior to sampling. Wells were bailed until a total of three well volumes were removed, or the well went dry.

Groundwater samples were collected from using low-flow/low-stress techniques. The groundwater in each monitoring well was purged using a peristaltic pump and dedicated high-density polyethylene (HDPE) sample tubing, with purge water being monitored with a water quality meter. The water quality parameters were measured in 5-minute increments until the following stabilization criteria were met for three successive readings:

- Temperature ± 1°C
- Specific conductance ± 3%
- pH ± 0.1 units
- Dissolved oxygen ± 10%
- Turbidity ± 10%, or <10 NTU

Water quality parameter measurements and field observations during sampling were recorded on groundwater sampling forms, which are provided in **Appendix B-1**.

Groundwater samples were collected directly from dedicated sample tubing into laboratory-supplied sample bottles. For quality assurance/quality control (QA/QC) purposes, a field blank, a trip blank, a field duplicate sample, and a matrix spike/matrix spike duplicate pair sample were collected. The samples were submitted to Eurofins TestAmerica (Buffalo) for the following analyses:

- PFAS via method E537(M)
- 1,4-Dioxane via method SW8270D SIM
- VOCs via method SW8260C
- PAHs via method 8270D

4.2 Groundwater Analytical Results – 2021

Groundwater samples were collected from MW-01B, MW-08D, MW-09D, MW-10D, MW-PAR-01, and MW-PAR-02 on September 30, 2021. The laboratory analytical results are shown in **Table 2**. VOC and SVOC concentrations were compared to NYSDEC Class GA Ambient Water Quality Standards (AWQS), which are listed in the Division of Water Technical and Operational Guidance Series (1.1.1). PFAS and 1,4-dioxane concentrations were compared to the New York State Maximum Contaminant Levels (NYS MCLs) listed in the Subpart 5-1 of New York State Sanitary Code (10 CRR-NY 5-1). Both AWQS and NYS MCLs are referred to collectively as "criteria" in the following paragraphs.

Groundwater analytical results for target VOCs exceeded criteria in MW-08D, MW-09D, MW-10D, MW-PAR-01, and MW-PAR-02. The highest detection for a single analyte was 2,600 micrograms per liter (ug/L) of xylene in MW-10D.

The concentrations of BTEX were summed for each of the groundwater samples collected. Concentrations of BTEX ranged from 2 ug/L in MW-01B to 4,100 ug/L in MW-10D.

Groundwater analytical results for target PAHs exceeded criteria in MW-08D, MW-09D, MW-10D, MW-PAR-01, and MW-PAR-02. The highest detection for a single analyte was 12,000 ug/L of naphthalene in MW-10D.

PFOS and PFOA were not detected above criteria in any of the groundwater samples. PFAS detection values ranged from non-detect to 7.4 nanograms per liter (ng/L; perfluorobutanesulfonic acid [PFBS]), which was observed in MW-PAR-02.

1,4-dioxane was not detected above the laboratory detection limits in any of the groundwater samples collected.

Analytical results of BTEX, PAHs, PFOS and PFOA, and 1,4-dioxane for each monitoring well are shown on **Figure 3**.

4.3 Quality Control and Data Validation

Data validation was performed on the groundwater samples referenced above in accordance with the analytical methodologies, U.S. Environmental Protection Agency (USEPA) Standard Operating Procedures (SOPs), and *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs* (2021) guidance, as well as the project Quality Assurance Project Plan (QAPP) contained in the Appendix I of the SMP. All data were considered usable following data validation.

All validated analytical results are included in **Table 2**. A Data Usability and Summary Report (DUSR) has been prepared for this Site and is included as **Appendix C**. The final Level 2 laboratory analytical report from Eurofins TestAmerica is included as **Appendix D**.

5.0 NAPL Removal

NAPL removal at the Site will be performed using a combination of two methods. The first NAPL removal method (passive) consists of deploying 3-inch diameter by 5-foot-long hydrophobic absorbent socks ("absorbent socks") in the recovery wells and allowing them to sit and accumulate NAPL between quarterly removal events. The second NAPL removal method (active) consists of pumping out free product accumulated within a recovery well sump using a peristaltic pump. The appropriate method for each well will be determined by the amount of NAPL accumulated within the sump, either as measured via electronic interface probe (EIP) or observed as staining on an absorbent sock during replacement.

NAPL removal at the Site will be performed on a quarterly basis. However, an additional passive removal event was performed in the fourth quarter of 2022 to field-test removal methods and establish a consistent procedure.

The estimated cumulative volume of NAPL removed per well is shown in **Table 3**.

5.1 Passive Removal – Absorbent Socks

Passive NAPL removal is proposed for recovery wells that do not exhibit a discernable volume of free product accumulated in the sump, either as measured by an EIP, or visually determined during the removal and replacement of spent absorbent socks.

During the initial NAPL removal events in August 2021, October 2021, and November 2021 absorbent socks were deployed in all recovery wells (RW-01 through RW-10). The absorbent socks were deployed in the wells such that the top of the absorbent sock extends approximately 6 inches above the top of the sump.

When removing the spent socks in RW-03, RW-04, RW-05, and RW-06, NAPL was observed to be smeared across the sock exterior.

The mass of each sock is measured prior to deployment, and again following removal. The difference between the initial mass (m_i) and final mass (m_f) is assumed to be due to NAPL absorption because of the hydrophobic nature of the absorbent material. The difference in masses (Δm) is used to estimate the volume of NAPL removed from the subsurface, based on an assumed NAPL density of 3.82 kilogram per gallon (kg/gal)[1], as shown below:

$$V_{NAPL} = \frac{m_f - m_i}{p}$$

Where:
V_{NAPL} = volume of NAPL removed (in gallons)
m_i = initial mass of the absorbent sock (in kilograms)
m_f = final mass of the absorbent sock (in kilograms)
p_{NAPL} = assumed NAPL density of 3.82 kg/gal

When the absorbent socks were first deployed (August 2021) neither initial mass, nor final mass, was recorded for any of the absorbent socks. Additionally, only final masses were recorded for absorbent socks deployed in the October and November 2021 events. As a result, an average initial mass was used to calculate the removal volumes in October 2021 and November 2021, which are shown in **Table 3**.

5.2 Active Removal - Pumping

As noted in Section 5.1, absorbent socks were deployed in all recovery wells during the initial NAPL removal events. On January 5, 2022, the absorbent socks were removed from all recovery wells to allow NAPL to accumulate, if present. The recovery wells were then gauged with an EIP on January 28, 2022 (excepting RW-10, which was located under a snowbank and inaccessible), and significant NAPL was observed to have accumulated within RW-03 and RW-04,

The amount of free product within the sumps of RW-03 and RW-04 was measured to be 3.4 feet and 3.2 feet thick, respectively. These thickness measurements were used to calculate the volume of NAPL present within each well: 2.2 gallons of NAPL within RW-03, and 2.1 gallons of NAPL within RW-04.

NAPL was then removed from RW-03 and RW-04 using a peristaltic pump and HDPE tubing. The tubing was gently advanced to the bottom of the sump, with care being taken to avoid dispersing the accumulated NAPL. The flow rate of the peristaltic pump was set relatively low, 100 – 300 milliliters per minute (mL/min) or 0.03 – 0.08 gallons per minute (gpm), to avoid excessive mixing of water and NAPL, as well as to prevent the viscous product from clogging the tubing. Once the flow rate was established, a target pump duration was calculated based on the measured flow rates and NAPL volumes of each well. Both RW-03 and RW-04 were pumped longer

[1] The assumed density of coal tar was selected from *An Illustrated Handbook of DNAPL Transport and Fate in the Subsurface*, published by the Environment Agency in 2003, which was accessed through the United States Environmental Protection Agency's (USEPA) Contaminated Site Clean-Up Information (CLU-IN) website.

than the target pump duration; pumping was continued until the liquid removed from the well was observed to be predominantly water. Two and one-half (2.5) gallons of product was removed from each recovery well. The NAPL removal logs are included in **Appendix B-2**.

Upon completion of pumping, RW-03 and RW-04 were allowed to sit and recover while absorbent socks were deployed in the remaining recovery wells. After approximately one hour, RW-03 and RW-04 were regauged to determine if any NAPL remained or if additional NAPL had accumulated. No NAPL was observed in either RW-03 or RW-04.

Similarly, the buckets used to collect purged media from RW-03 and RW-04 were allowed to sit for one hour. No observable differentiation between NAPL and water was observed, therefore the liquid removed from each recovery well is assumed to have been predominantly NAPL.

Absorbent socks were not deployed in RW-03 and RW-04. Both recovery wells will be regauged during the Spring 2022 removal event. If significant NAPL is observed to have accumulated within RW-03 and RW-04, Parsons recommends NAPL removal in both wells be conducted using the approach detailed above.

6.0 Monitoring and Maintenance

6.1 Vegetation Monitoring and Invasive Species Treatment

Monitoring activities performed at the Site in 2021 included a comprehensive vegetation plot analysis, which indicated that the Site is currently meeting performance goals for perennial vegetative cover. Maintenance performed in 2021 included treatment of isolated stems of Japanese knotweed (*Reynoutria japonica*), an invasive species which was noted during monitoring activities. Specific efforts that were completed in 2021 are summarized below and are represented in a photographic log provided in **Appendix E**.

- July 15, 2021: Invasive species reconnaissance site visit. Very few stems of Japanese knotweed were noted.
- August 6, 2021: Invasive species treatment was performed. Rodeo® was applied at 2.5% concentration to very few isolated stems of Japanese knotweed.
- September 13, 2021: A comprehensive vegetation assessment was performed.

The second year of comprehensive vegetation monitoring was performed on September 13, 2021, to determine whether seeded and planted areas at the Site are on track to meet performance goals. Five 1-square-meter ($1m^{2)}$ plots were selected across the Site to represent the plant community as accurately as possible (**Figure 4**). Vegetation plots were generally dominated by perennial native grasses including Canada wildrye (*Elymus canadensis)* and switchgrass (*Panicum virgatum*). There was also an abundance of goldenrods (*Solidago canadensis, Euthamia graminifolia*). Overall percent cover of seeded areas was 100 percent, exceeding the performance goal of 85 percent cover.

Trees and shrubs that were planted in 2018 were also inventoried to determine survival rates. Overall, 34 percent of planted shrubs were found surviving onsite. Based on Site conditions and typical outcomes for small potted woody plantings, this rate of survival is consistent with expectations. Silky dogwood (*Cornus amomum*) had the highest rate of survival at 67 percent and willow live stakes (*Salix* sp.) had the lowest rate of survival at 21 percent. Overall, 3 percent of planted trees were found surviving onsite. Black willow (*Salix nigra)*

had the highest rate of survival at 8 percent and silver maple (*Acer saccharinum*) and Cottonwood (*Populus deltoides*) had the lowest rate of survival at 0 percent.

6.2 Erosion Inspection

In accordance with the SMP, a sitewide inspection was performed on July 15, 2021, to assess the general conditions of the Site, the condition and effectiveness of the engineering controls, and compliance with the institutional controls. The Site was observed to be in good condition, with only minor natural erosion of a portion of the bank of the Owasco Outlet noted. No maintenance or follow up actions are recommended. The inspection form is included as **Appendix F** of this document.

Enc: Figure 1 – Site Plan
Figure 2a – Groundwater Flow Direction (Overburden)
Figure 2b – Groundwater Flow Direction (Bedrock)
Figure 3 – Groundwater Sampling Results
Figure 4 – Vegetation Plots and Invasive Species Areas
Table 1 – Well Gaging Data (2021)
Table 2 – Groundwater and QC Analytical Result Summary (2021)
Table 3 – NAPL Removal Summary (2021)
Appendix A – Boring and Well Construction Logs
Appendix B-1 – Groundwater Sampling Logs
Appendix B-2 – NAPL Removal Logs
Appendix C – Data Usability Summary Report (2021)
Appendix D – Eurofins TestAmerica Level 2 Laboratory Analytical Report
Appendix E – Photographic Log
Appendix F – Site Management Form

cc: Anne Burnham (Parsons)
Heather Phillip (Parsons)
Zack Cornish (Parsons)

FIGURES

LEGEND:

- UTILITY POLE/LIGHT POLE
- UTILITY TOWER
- 635 EXISTING TOPOGRAPHIC CONTOUR
- PROPERTY BOUNDARY
- RECOVERY WELL
- OVERBURDEN MONITORING WELL
- BEDROCK MONITORING WELL

80 40 0 80 160

SCALE: 1"=80'

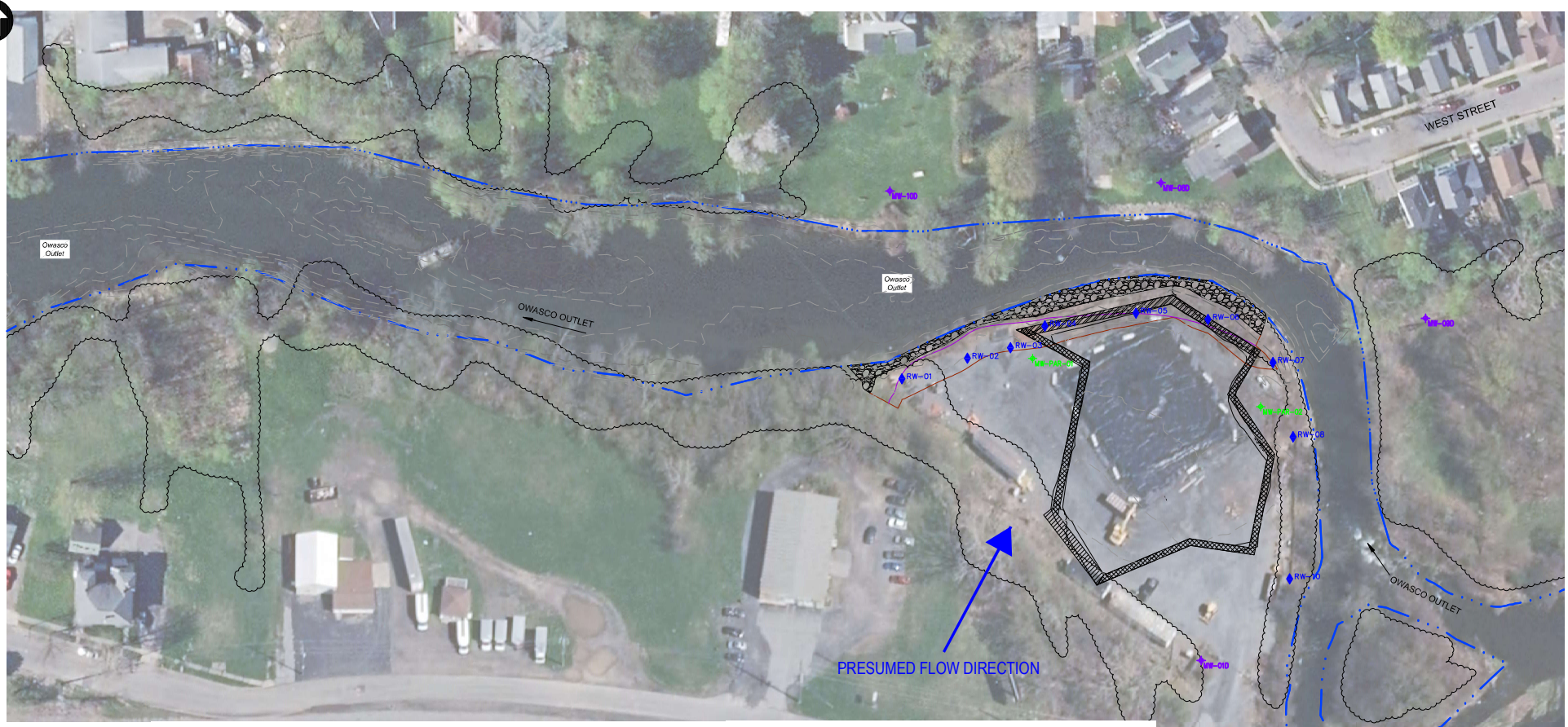
FIGURE 1

NYSEG
CLARK STREET FORMER MGP SITE

SITE LAYOUT

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

FILE NAME: P:\IBERDROLA_AVANGRID\452562 & 452563 AUBURN CLARK & MCMASTER STREETS\07 CAD\CLARK ST\O&M-2022\452562-OM-001.DWG
PLOT DATE: 1/27/2022 1:52 PM PLOTTED BY: RUSSO, JILL [US-US]



LEGEND:

- UTILITY POLE/LIGHT POLE
- UTILITY TOWER
- EXISTING TOPOGRAPHIC CONTOUR
- PROPERTY BOUNDARY
- RECOVERY WELL
- OVERBURDEN MONITORING WELL
- BEDROCK MONITORING WELL

80 40 0 80 160

SCALE: 1"=80'

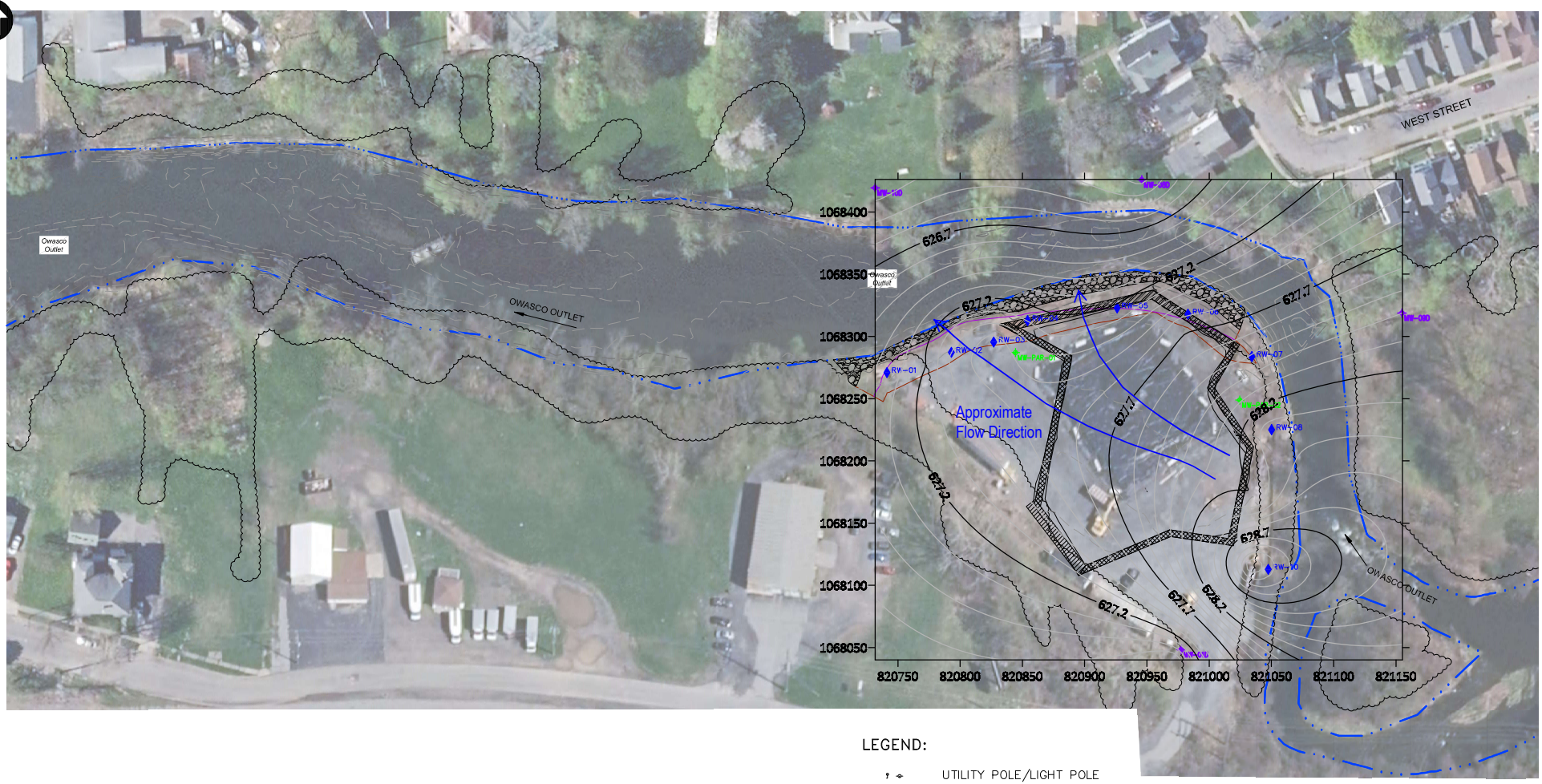
FIGURE 2a

NYSEG
CLARK STREET FORMER MGP SITE

Groundwater Flow Direction (Overburden)

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

FILE NAME: P:\IBERDROLA_AVANGRID\452562 & 452563 AUBURN CLARK & MCMASTER STREETS\07 CAD\CLARK ST\O&M-2022\452562-OM-001.DWG
PLOT DATE: 1/27/2022 1:52 PM PLOTTED BY: RUSSO, JILL [US-US]



LEGEND:

- UTILITY POLE/LIGHT POLE
- UTILITY TOWER
- KRIGED GROUNDWATER CONTOUR
- PROPERTY BOUNDARY
- RECOVERY WELL
- OVERBURDEN MONITORING WELL
- BEDROCK MONITORING WELL

80 40 0 80 160

SCALE: 1"=80'

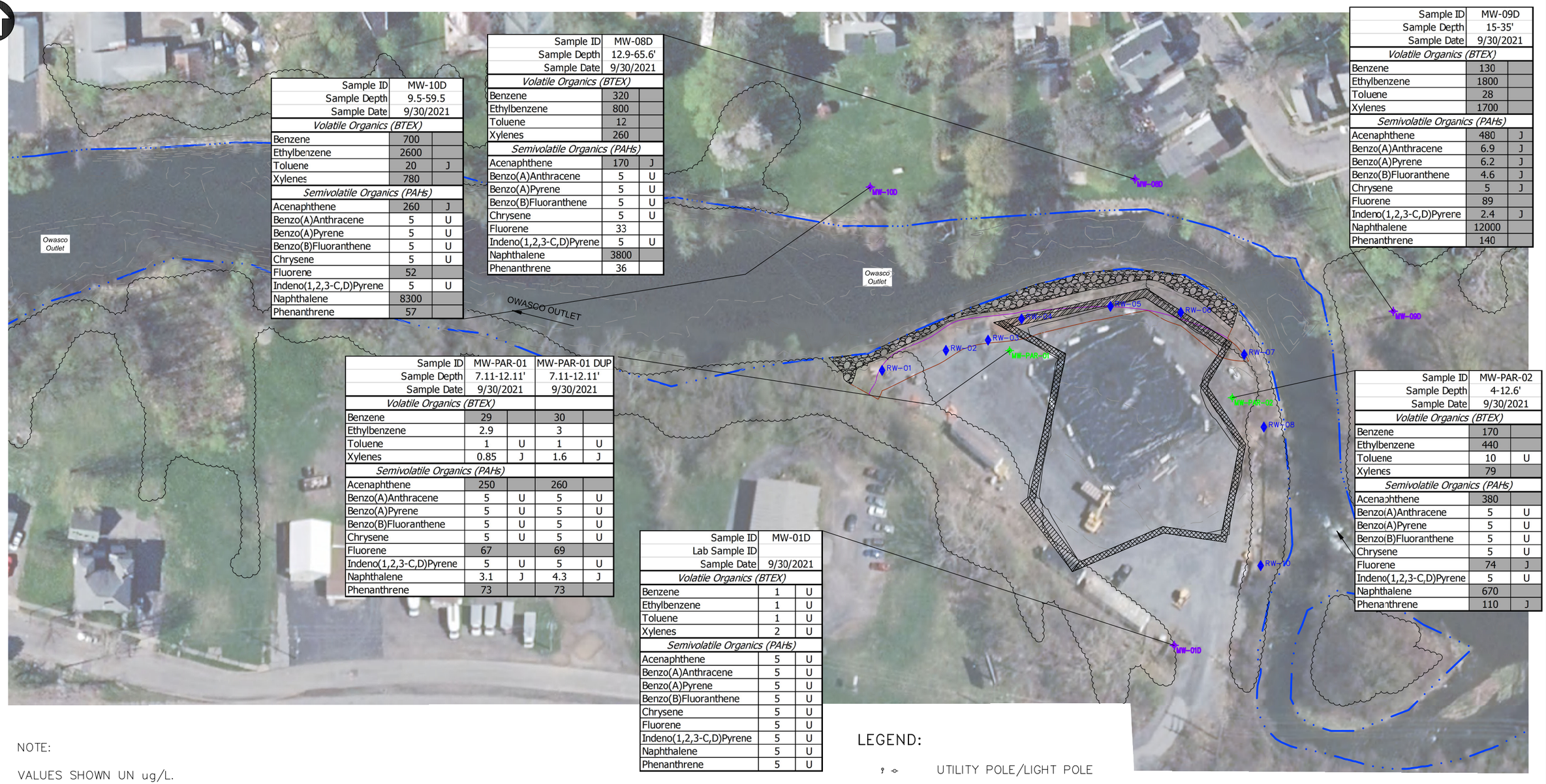
FIGURE 2b

NYSEG
CLARK STREET FORMER MGP SITE

GROUNDWATER FLOW DIRECTION (BEDROCK)

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 • 315-451-9560

FILE NAME: P:\IBERDROLA_AVANGRID\452562 & 452563 AUBURN CLARK & MCMASTER STREETS\07 CAD\CLARK ST\O&M-2022\452562-BR-001.DWG
PLOT DATE: 2/4/2022 4:20 PM PLOTTED BY: RUSSO, JILL [US-US]



Sample ID	MW-10D	
Sample Depth	9.5-59.5	
Sample Date	9/30/2021	
Volatile Organics (BTEX)		
Benzene	700	
Ethylbenzene	2600	
Toluene	20	J
Xylenes	780	
Semivolatile Organics (PAHs)		
Acenaphthene	260	J
Benzo(A)Anthracene	5	U
Benzo(A)Pyrene	5	U
Benzo(B)Fluoranthene	5	U
Chrysene	5	U
Fluorene	52	
Indeno(1,2,3-C,D)Pyrene	5	U
Naphthalene	8300	
Phenanthrene	57	

Sample ID	MW-08D	
Sample Depth	12.9-65.6'	
Sample Date	9/30/2021	
Volatile Organics (BTEX)		
Benzene	320	
Ethylbenzene	800	
Toluene	12	
Xylenes	260	
Semivolatile Organics (PAHs)		
Acenaphthene	170	J
Benzo(A)Anthracene	5	U
Benzo(A)Pyrene	5	U
Benzo(B)Fluoranthene	5	U
Chrysene	5	U
Fluorene	33	
Indeno(1,2,3-C,D)Pyrene	5	U
Naphthalene	3800	
Phenanthrene	36	

Sample ID	MW-09D	
Sample Depth	15-35'	
Sample Date	9/30/2021	
Volatile Organics (BTEX)		
Benzene	130	
Ethylbenzene	1800	
Toluene	28	
Xylenes	1700	
Semivolatile Organics (PAHs)		
Acenaphthene	480	J
Benzo(A)Anthracene	6.9	J
Benzo(A)Pyrene	6.2	J
Benzo(B)Fluoranthene	4.6	J
Chrysene	5	J
Fluorene	89	
Indeno(1,2,3-C,D)Pyrere	2.4	J
Naphthalene	12000	
Phenanthrene	140	

Sample ID	MW-PAR-01		MW-PAR-01 DUP	
Sample Depth	7.11-12.11'		7.11-12.11'	
Sample Date	9/30/2021		9/30/2021	
Volatile Organics (BTEX)				
Benzene	29		30	
Ethylbenzene	2.9		3	
Toluene	1	U	1	U
Xylenes	0.85	J	1.6	J
Semivolatile Organics (PAHs)				
Acenaphthene	250		260	
Benzo(A)Anthracene	5	U	5	U
Benzo(A)Pyrene	5	U	5	U
Benzo(B)Fluoranthene	5	U	5	U
Chrysene	5	U	5	U
Fluorene	67		69	
Indeno(1,2,3-C,D)Pyrene	5	U	5	U
Naphthalene	3.1	J	4.3	J
Phenanthrene	73		73	

Sample ID	MW-01D	
Lab Sample ID		
Sample Date	9/30/2021	
Volatile Organics (BTEX)		
Benzene	1	U
Ethylbenzene	1	U
Toluene	1	U
Xylenes	2	U
Semivolatile Organics (PAHs)		
Acenaphthene	5	U
Benzo(A)Anthracene	5	U
Benzo(A)Pyrene	5	U
Benzo(B)Fluoranthene	5	U
Chrysene	5	U
Fluorene	5	U
Indeno(1,2,3-C,D)Pyrene	5	U
Naphthalene	5	U
Phenanthrene	5	U

Sample ID	MW-PAR-02	
Sample Depth	4-12.6'	
Sample Date	9/30/2021	
Volatile Organics (BTEX)		
Benzene	170	
Ethylbenzene	440	
Toluene	10	U
Xylenes	79	
Semivolatile Organics (PAHs)		
Acenaphthene	380	
Benzo(A)Anthracene	5	U
Benzo(A)Pyrene	5	U
Benzo(B)Fluoranthene	5	U
Chrysene	5	U
Fluorene	74	J
Indeno(1,2,3-C,D)Pyrene	5	U
Naphthalene	670	
Phenanthrene	110	J

NOTE:

VALUES SHOWN UN ug/L.

80 40 0 80 160

SCALE: 1"=80'

LEGEND:

- UTILITY POLE/LIGHT POLE
- UTILITY TOWER
- 635 EXISTING TOPOGRAPHIC CONTOUR
- PROPERTY BOUNDARY
- RECOVERY WELL
- OVERBURDEN MONITORING WELL
- BEDROCK MONITORING WELL

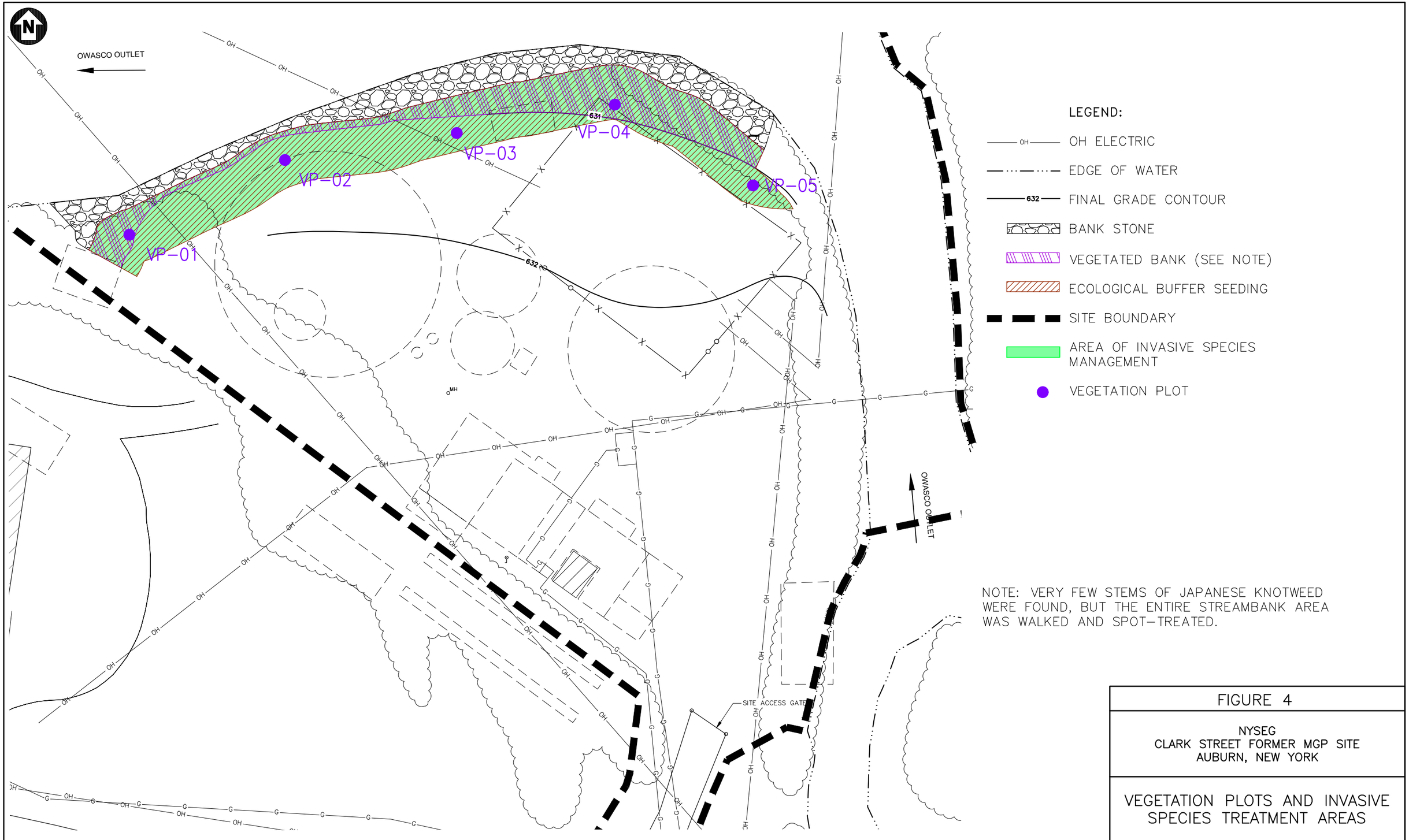
FIGURE 3

NYSEG
CLARK STREET FORMER MGP SITE

GROUNDWATER ANALYTICAL RESULTS SUMMARY

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

FILE NAME: P:\IBERDROLA_AVANGRID\452562 & 452563 AUBURN CLARK & MCMASTER STREETS\07 CAD\CLARK ST\O&M-2022\452562-OM-001.DWG
PLOT DATE: 2/9/2022 4:54 PM PLOTTED BY: RUSSO, JILL [US-US]



NOTE: VERY FEW STEMS OF JAPANESE KNOTWEED WERE FOUND, BUT THE ENTIRE STREAMBANK AREA WAS WALKED AND SPOT-TREATED.

FIGURE 4

NYSEG
CLARK STREET FORMER MGP SITE
AUBURN, NEW YORK

VEGETATION PLOTS AND INVASIVE SPECIES TREATMENT AREAS

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

FILE NAME: P:\IBERDROLA_AVANGRID\449523 AUBURN CLARK STREET 2018\06 BACKGROUND DATA AND REPORTS\07 CAD ASBUILT SURVEYS\CAD\CLARK-VEG-PLOT-2021.DWG
PLOT DATE: 3/24/2022 4:29 PM PLOTTED BY: RUSSO, JILL [US-US]

TABLES

Well ID	TOC Elevation (ft)[1]	Screened Interval (feet bgs)	Sump Interval (feet bgs)	Hydrologic Unit Code[3]	Water Depth (ft btoc) September 2021	Water Elevation (ft NAVD88) September 2021	Product Thickness (ft) September 2021	Water Depth (ft btoc) January 2022	Water Elevation (ft NAVD88) January 2022	Product Thickness (ft) January 2022
RW-01	630.19	8.1 - 23.1	23.1 - 28.2	BR	3.34	626.85	NM	3.66	626.53	-
RW-02	630.68	9.2 - 19.2	19.2 - 24.3	BR	3.56	627.12	NM	4.02	626.66	-
RW-03	630.26	7.3 - 22.3	22.3 - 27.7	BR	3.03	627.23	NM	3.38	626.88	3.39
RW-04	630.81	7.4 - 47.4	47.4 - 52.8	BR	3.85	626.96	NM	5.6	625.21	3.15
RW-05	630.6	7.9 - 67.9	67.9 - 73.1	BR	3.66	626.94	NM	4	626.6	-
RW-06	630.77	7.1 - 22.1	22.1 - 27.2	BR	3.36	627.41	NM	4.7	626.07	-
RW-07	630.55	8.1 - 28.1	28.1 - 34.0	BR	3.15	627.4	NM	3.5	627.05	-
RW-08	631.51	8.8 - 23.8	23.8 - 29	BR	3.48	628.03	NM	3.95	627.56	-
RW-09	632.62	8.1 - 23.1	23.1 - 29.2	BR	4.75	627.87	NM	4.92	627.7	-
RW-10	633.37	8.9 - 23.9	24.0 - 28.1	BR	4.52	628.85	NM	NM[4]	NM[4]	-
MW-08D	632.67[(2)]	Open	NA	BR	6.4	626.27	NM	NM	NM	NM
MW-09D	634.29[(2)]	15 - 35	35 - 45	BR	6.3	627.99	NM	NM	NM	NM
MW-10D	630.24[(2)]	Open	NA	BR	3.9	626.34	NM	NM	NM	NM
MW-PAR-01	631.04	7.1 - 12.1	NA	OB	3.7	627.34	NM	NM	NM	NM
MW-PAR-02	631.47	4.0 - 12.6	NA	OB	3.6	627.87	NM	NM	NM	NM
MW-01B	638.14[(2)]	Open	NA	BR	11.4	626.74	NM	NM	NM	NM

Notes:

1. Top of Casing (TOC) elevation was surveyed using the North American Vertical Datum of 1988 (NAVD88)
2. Top of Casing (TOC) elevation was surveyed in feet above mean sea level (amsl)
3. Hydrologic Unit Code refers to aquifer well is screened/set in, overburden (OB) or bedrock (BR).
4. RW-10 was obstructed by a large snowbank during the January 2022 NAPL removal event and therefore was not gauged.

						Lab Sample ID		480-190358-6		480-190358-4		480-190358-3		480-190358-7		480-190358-1		480-190358-2		480-190358-5	
						Sample Date		9/30/2021		9/30/2021		9/30/2021		9/30/2021		9/30/2021		9/30/2021		9/30/2021	
						Sample Type Code		N		N		N		N		N		FD		N	
Analytical Method	Chemical Name	CAS	Unit	NYSDEC Class GA[1]	New York State MCL[2]																
Volatile Organics (BTEX)																					
SW8260C	Benzene	71-43-2	ug/L	1	-	1	U	320		130		700		29		30		170			
SW8260C	Benzene, Toluene, Ethylbenzene, And Xylenes	BTEX	ug/L	-	-	2	U	1400		3700		4100		33		35		690			
SW8260C	Ethylbenzene	100-41-4	ug/L	5	-	1	U	800		1800		2600		2.9		3		440			
SW8260C	m,p-Xylene	179601-23-1	ug/L	-	-	2	U	71		1200		200		2	U	0.69	J	20			
SW8260C	O-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	-	-	1	U	190		520		580		0.85	J	0.92	J	59			
SW8260C	Toluene	108-88-3	ug/L	5	-	1	U	12		28		20	J	1	U	1	U	10	U		
SW8260C	Xylenes	1330-20-7	ug/L	5	-	2	U	260		1700		780		0.85	J	1.6	J	79			
Semivolatile Organics (PAHs)																					
SW8270D	Acenaphthene	83-32-9	ug/L	20	-	5	U	170	J	480	J	260	J	250		260		380			
SW8270D	Acenaphthylene	208-96-8	ug/L	-	-	5	U	1.7	J	7.8	J	2.5	J	4.8	J	5.1		4.5	J		
SW8270D	Anthracene	120-12-7	ug/L	50	-	5	U	3.5	J	23	J	7.4		5.6		5.9		11			
SW8270D	Benzo(A)Anthracene	56-55-3	ug/L	0.002	-	5	U	5	U	6.9	J	5	U	5	U	5	U	5	U		
SW8270D	Benzo(A)Pyrene	50-32-8	ug/L	0	-	5	U	5	U	6.2	J	5	U	5	U	5	U	5	U		
SW8270D	Benzo(B)Fluoranthene	205-99-2	ug/L	0.002	-	5	U	5	U	4.6	J	5	U	5	U	5	U	5	U		
SW8270D	Benzo(G,H,I)Perylene	191-24-2	ug/L	-	-	5	U	5	U	3.3	J	5	U	5	U	5	U	5	U		
SW8270D	Benzo(K)Fluoranthene	207-08-9	ug/L	0.002	-	5	U	5	U	25	U	5	U	5	U	5	U	5	U		
SW8270D	Chrysene	218-01-9	ug/L	0.002	-	5	U	5	U	5	J	5	U	5	U	5	U	5	U		
SW8270D	Dibenz(A,H)Anthracene	53-70-3	ug/L	-	-	5	U	5	U	25	U	5	U	5	U	5	U	5	U		
SW8270D	Fluoranthene	206-44-0	ug/L	50	-	5	U	1.7	J	26		2.9	J	8		8.3		6.8			
SW8270D	Fluorene	86-73-7	ug/L	50	-	5	U	33		89		52		67		69		74	J		
SW8270D	Indeno(1,2,3-C,D)Pyrene	193-39-5	ug/L	0.002	-	5	U	5	U	2.4	J	5	U	5	U	5	U	5	U		
SW8270D	Naphthalene	91-20-3	ug/L	10	-	5	U	3800		12000		8300		3.1	J	4.3	J	670			
SW8270D	Phenanthrene	85-01-8	ug/L	50	-	5	U	36		140		57		73		73		110	J		
SW8270D	Pyrene	129-00-0	ug/L	-	-	5	U	2.1	J	34		3.8	J	11		11		7.7			
Per- and Polyfluoroalkyl Substances (PFAS)																					
E537(M)	2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/l	-	-	4.4	U	4.4	U	4.5	U	4.5	U	4.6	U	4.4	U	4.6	U		
E537(M)	N-ethyl perfluorooctanesulfonamidoacetic acid	2991-50-6	ng/l	-	-	4.4	U	4.4	U	4.5	U	4.5	U	4.6	U	4.4	U	4.6	U		
E537(M)	Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/l	-	-	0.37	J	1.7	U	0.84	J	0.54	J	1.6	J	1.6	J	1.4	J		
E537(M)	Perfluorobutanoic Acid	375-22-4	ng/l	-	-	1.2	J	1.3	J	2.8	J	3.6	J	5.7		4.1	J	7.4			
E537(M)	Perfluorodecane Sulfonic Acid	335-77-3	ng/l	-	-	1.8	U	1.7	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U		
E537(M)	Perfluorodecanoic acid (PFDA)	335-76-2	ng/l	-	-	1.8	U	1.7	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U		
E537(M)	Perfluorododecanoic acid (PFDoA)	307-55-1	ng/l	-	-	1.8	U	1.7	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U		
E537(M)	Perfluoroheptane Sulfonate (PFHPS)	375-92-8	ng/l	-	-	1.8	U	1.7	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U		
E537(M)	Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/l	-	-	1.8	U	0.23	J	0.79	J	0.67	J	1.6	J	0.72	J	0.97	J		
E537(M)	Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/l	-	-	1.8	U	0.44	J	0.81	J	0.63	J	0.7	J	0.6	J	0.72	J		
E537(M)	Perfluorohexanoic acid (PFHxA)	307-24-4	ng/l	-	-	1.8	U	0.56	J	1.2	J	1.2	J	2		0.92	J	1.9			
E537(M)	Perfluorononanoic acid (PFNA)	375-95-1	ng/l	-	-	1.8	U	1.7	U	0.29	J	0.26	J	0.59	J	1.8	U	0.31	J		
E537(M)	Perfluorooctane Sulfonamide (FOSA)	754-91-6	ng/l	-	-	1.8	U	1.7	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U		
E537(M)	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/l	-	10	1.8	U	1.7	U	1.9		1.8	U	2.1		2.2		1.8			
E537(M)	Perfluorooctanoic acid (PFOA)	335-67-1	ng/l	-	10	1.8	U	0.52	J	1.5	J	1.3	J	3.4		2		2.4			
E537(M)	Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/l	-	-	1.8	U	0.47	J	0.84	J	0.59	J	1.6	J	0.67	J	1.2	J		
E537(M)	Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/l	-	-	1.8	U	1.7	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U		
E537(M)	Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/l	-	-	1.8	U	1.7	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U		
E537(M)	Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/l	-	-	1.8	U	1.7	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U		
E537(M)	Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	39108-34-4	ng/l	-	-	1.8	U	1.7	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U		
E537(M)	Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	27619-97-2	ng/l	-	-	4.4	U	4.4	U	4.5	U	3.4	J	4.6	U	4.4	U	3.9	J		
1,4-Dioxane																					
SW8270DSIM	1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	-	1	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U		

Notes:

[1] New York State Department of Environmental Conservation, 6NYCRR Part 703 and Technical and Operational Guidance Series (1.1.1) Class GA Standards and Guidance Values. Revised 1998

[2] New York State Department of Health. State Sanitary Code (SSC) 10NYCRR Part 5 maximum contaminant levels for PFOA. PFOS. and 1.4 Dioxane

Gray highlighting = Exceeds NYSDEC Class GA Standards and Guidance Values

Blue Highlighting = Exceeds NYS MCL

NA = Not analyzed, NC = no criteria exists

Qualifiers: B = Compound was found in the blank and sample, BJ = Compound was found in the blank and sample at the estimated value, J = Estimated value, J- = Estimated

Matrix ID: WO = Water Quality Control Matric, WG = Groundwater, WS = Surface Water

Sample Type Code: N = Normal Environmental Sample, FD = Field Duplicate, EB = Equipment Blank, FB = Field Blank, TB = Trip Blank

Results validated.

	Aug-21			Oct-21			Nov-21			Jan-22			Cumulative
Well ID	Sock Mass Initial (g)[1]	Sock Mass Final (g)	Mass Removed (g)	Sock Mass Initial (g)[1]	Sock Mass Final (g)	Mass Removed (g)	Sock Mass Initial (g)[1]	Sock Mass Final (g)	Mass Removed (g)	Sock Mass Initial (g)	Sock Mass Final (g)	Mass Removed (g)[3]	Volume Removed (gal)
RW-01	NM	NM	-	345	2,410	2,065	345	2,400	2,055	338	TBD	TBD	1.1
RW-02	NM	NM	-	345	2,807	2,462	345	2,050	1,705	398	TBD	TBD	1.1
RW-03	NM	NM	-	345	2,353	2,008	345	2,360	2,015	NA	NA	9,560(2)	3.6
RW-04	NM	NM	-	345	3,005	2,660	345	2,400	2,055	NA	NA	9,560(2)	3.7
RW-05	NM	NM	-	345	3,033	2,688	345	2,670	2,325	271	TBD	TBD	1.3
RW-06	NM	NM	-	345	3,062	2,717	345	2,710	2,365	369	TBD	TBD	1.3
RW-07	NM	NM	-	345	2,540	2,195	345	2,170	1,825	361	TBD	TBD	1.1
RW-08	NM	NM	-	345	3,090	2,745	345	2,400	2,055	350	TBD	TBD	1.3
RW-09	NM	NM	-	345	3,090	2,745	345	2,800	2,455	328	TBD	TBD	1.4
RW-10	NM	NM	-	345	2,807	2,462	345	2,500	2,155	NM	TBD	TBD	1.2

TOTAL NAPL REMOVED (kg)	55.06
TOTAL NAPL REMOVED (gal)	17.0

Notes:
1. Aug 2021, Oct 2021, and Nov 2021 inital sock values are estimated using everage mass from Jan 2022 event.
2. Mass Removed for RW-03, RW-04 in Jan 2022 was calculated based on volume of product removed via pumping, converted to mass using a product density of 1010 kg/m^3, or 3.82 kg/gal.
3. Mass Removed for Jan-22 (except RW-03, RW-04) have not been calculated at the time of this report. Used socks will be weighed and disposed of during the Q2 2022 removal event.

APPENDIX A – BORING AND WELL CONSTRUCTION LOGS

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 631.04 ft asl	BOREHOLE NO: **MW-PAR-01**
LOCATION: Auburn, NY	GRADE ELEV.: 631.4 ft asl	START DATE: 04/09/2021
CLIENT: Iberdrola	OBS. DTW: 11.8 ft bgs	COMPLETION DATE: 04/09/2021
EASTING, NORTHING (ft): 820842.1 ft, 1068293.1 ft	DATUM: NAD 83, NAVD 88	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	MONITORING WELL	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	Moist, loose, brown, SILT, some sand and gravel, trace clay, vegation [SM]		HC	0	--	--	100	0		COMPLETED WITH FLUSH MOUNT ROAD BOX W/ CONCRETE APRON.	0
										BENTONITE GROUT (0.5'-3')	
										2" OD PVC RISER (0'-7.11')	
5	Dry, loose, brown, SAND, little gravel, trace silt, wood debris [SM]		SS	1	2	--	--	0			5
			SS	1	6	--	--	0			
			SS	1	6	--	--	0			
			SS	1	6	--	66	0			
	Dry, loose, brown, SAND, little gravel, trace silt [SM]		SS	2	8	--	--	0		BENTONITE ANNULAR SEAL (3'-6.9') 0.010 SLOT 2" OD PVC SCREEN (7.11'-12.11')	
			SS	2	8	--	--	0			
			SS	2	9	--	--	0			
			SS	2	10	--	66	0			
	Dry, loose, brown, SAND, little gravel, trace silt [SM]		SS	3	2	--	--	0			
10	Moist, loose, brown, SAND, little gravel, trace silt [SM]		SS	3	2	--	--	0			10
			SS	3	3	--	--	0			
			SS	3	3	--	44	0			
	Moist, soft, brown, SILT, some sand, little clay, trace gravel [SM]		SS	4	6	--	--	0			
			SS	4	9	--	--	0			
			SS	4	5	--	--	0		#28 BELLEMARE SAND PACK (6.9'-12.11')	
	Dry, dense, gray, GRAVEL, weathered shale fragments [GW]		SS	4	50/5"	--	79	0.5			
	BOREHOLE TD @ 13 FT BGS										
15											15

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon	BOREHOLE DIA.: 2 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 631.47 ft asl	BOREHOLE NO: **MW-PAR-02**
LOCATION: Auburn, NY	GRADE ELEV.: 631.7 ft asl	START DATE: 04/29/2021
CLIENT: Iberdrola	OBS. DTW: 5 ft bgs	COMPLETION DATE: 04/29/2021
EASTING, NORTHING (ft): 821025.8 ft, 1068240.4 ft	DATUM: NAD 83, NAVD 88	PAGE 1 of 1

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	MONITORING WELL	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	Moist, soft, gray-black, SILT, some sand and gravel, brick debris, wood debris, vegatation [GM]		HC	0	--	--	100	0		COMPLETED WITH FLUSH MOUNT ROAD BOX W/ CONCRETE APRON BENTONITE GROUT (0.5'-1') BENTONITE ANNULAR SEAL (1'-3') #28 BELLEMARE SAND PACK (3'-12.6') 2" OD PVC RISER (0'-4') .010 SLOT 2" OD PVC SCREEN (4'-12.6')	0
	Moist, soft, green-gray, SILT, some sand, little clay [ML]										
5	Wet, soft, gray-black, SILT, some sand, little clay [ML]		SS	1	2	--	--	0			5
			SS	1	2	--	--	0			
			SS	1	3	--	--	0			
			SS	1	5	--	25	0			
	Wet, soft, brown, SILT and SAND [SM]		SS	2	5	--	--	0			
			SS	2	5	--	--	0			
	Wet, soft, purple, SILT and SAND [SM]		SS	2	6	--	--	0			
			SS	2	8	--	66	0			
	Wet, medium stiff, purple, SILT and SAND [SM]		SS	3	8	--	--	0			
	Wet, stiff, brown-gray, SILT and SAND, some gravel [GM]		SS	3	11	--	--	0			
10			SS	3	16	--	--	0			10
			SS	3	72	--	60	0.1			
	Wet, dense, brown-gray, GRAVEL, some sand and silt [GM]		SS	4	41	--	--	0			
			SS	4	58	--	--	0			
			SS	4	31	--	--	0			
			SS	4	50/5"	--	60	0.3			
	Wet, dense, dark gray, GRAVEL, weathered shale [GW]										
	BOREHOLE TD @ 13.00 FT BGS										
15											15

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon	BOREHOLE DIA.: 2 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.19 ft asl	BOREHOLE NO: **RW-01**
LOCATION: Auburn, NY	GRADE ELEV.: 630.4 ft asl	START DATE: 03/29/2021
CLIENT: Iberdrola	OBS. DTW: 3.34 ft bgs	COMPLETION DATE: 03/31/2021
EASTING, NORTHING (ft): 820772.3 ft, 1068276.7 ft	DATUM: NAD 83, NAVD 88	PAGE 1 of 2

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	Moist, loose, brown, SAND and SILT, some gravel, trace clay [SM]		HC	0	--	--	100	0		COMPLETED WITH FLUSH MOUNT ROAD BOX W/ CONCRETE APRON (0' - 0.5')	0
										BENETONITE GROUT (0.5'-4.0')	
										BENTONITE ANNULAR SEAL (4.0' - 6.1')	
5	Moist, soft, brown, SAND and SILT, little gravel, trace clay [SM]		SS	1	3	--	--	0			5
			SS	1	4	--	--	0			
			SS	1	5	--	--	0		#6 BELLEMARE SAND PACK (6.1'- 23.1')	
			SS	1	6	--	50	0.1			
	Wet, soft, brown, SAND and SILT, some gravel, trace clay [SM]		SS	2	7	--	--	0			
			SS	2	6	--	--	0			
	Moist, soft, brown, SAND and SILT, some gravel, trace clay [SM]		SS	2	3	--	--	0		4" OD 0.050 SLOT PVC SCREEN (8.1'-23.1')	
			SS	2	3	--	65	0.1			
	Wet, soft, brown, Sand and SIlt, some gravel, trace clay [SM]		SS	3	1	--	--	0			
10			SS	3	1	--	--	0			10
			SS	3	1	--	--	0			
			SS	3	1	--	33	0			
	Wet, loose, brown, GRAVEL, little silt [GM]		SS	4	83	--	--	0			
	Wet, stiff, brown, SAND and SILT, little gravel [GM]		SS	4	100/1"	--	55	1.5			
	Moist, stiff, gray, GRAVEL, little silt and clay, weatherd shale [GC]										
	Dark gray, mudstone (carbonate mud), fossils, pyrite		HQ	5	--	74	95	0		REAMED COREHOLE DIAMETER INCREASED FROM 3.7" TO 5.9" (12'-28.2')	
15											15

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.19 ft asl	BOREHOLE NO: **RW-01**
LOCATION: Auburn, NY	GRADE ELEV.: 630.4 ft asl	START DATE: 03/29/2021
CLIENT: Iberdrola	OBS. DTW: 3.34 ft bgs	COMPLETION DATE: 03/31/2021
EASTING, NORTHING (ft): 820772.3 ft, 1068276.7 ft	DATUM: NAD 83, NAVD 88	PAGE 2 of 2

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
15	Light gray, wackestone, interbedded shale, pyrite,fossils, vertical fractures		HQ	5	--	74	95	0			15
	Dark gray, wackestone, interbedded shale, fossils, pyrite, tar blebs										
	Light gray, wackestone, interbedded shale, little chert, coral fossils, pyrite, verticle fractures, tar blebs		HQ	6	--	60	100	25.6			
20											20
	Light gray, packestone, interbedded shale, coral fossils		HQ	7	--	95	100	0		4" OD PVC SUMP (23.1'-28.2')	
	Light gray packestone, chert gravel, pyrite										
25	Dark gray, interbedded shale, wackestone, fossils, pyrite									BENTONITE ANNULAR SEAL (23.1'-28.2')	25
	No Recovery		NR		--	--	--	0			
	BOREHOLE TD @ 28.20 FT BGS										
30											30

PARSONS	CONTRACTOR: ATL		
	DRILLER: M. Childs	EQUIPMENT: CME-55	
	OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.68 ft asl	BOREHOLE NO: **RW-02**
LOCATION: Auburn, NY	GRADE ELEV.: 631 ft asl	START DATE: 03/31/2021
CLIENT: Iberdrola	OBS. DTW: 3.56 ft bgs	COMPLETION DATE: 04/01/2021
EASTING, NORTHING (ft): 820795.9 ft, 1068282.1 ft	DATUM: NAD 83, NAVD 88	PAGE 1 of 2

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	Moist, loose, brown, SAND and SILT, some gravel, trace clay [SM]		HC	0	--	--	100	0		FLUSH MOUNT ROAD BOX W/ CONCRETE APRON (0'-1')	0
										BENTONITE GROUT (1'-4.4')	
										BENTONITE ANNULAR SEAL (4.4'-7.8')	
5	Wet, medium stiff, brown, SAND and SILT, some gravel, little clay [SM]		SS	1	3	--	--	0			5
			SS	1	6	--	--	0			
			SS	1	8	--	--	0			
			SS	1	3	--	33	0			
	Wet, loose, brown, SILT and Gravel, some sand, little, clay [GM]		SS	2	6	--	--	0			
			SS	2	5	--	--	0		#6 BELLEMARE SAND PACK (7.8'-19.1')	
			SS	2	4	--	--	0			
			SS	2	4	--	90	0			
	Wet, loose, brown, SILT and Gravel [ML]		SS	3	1	--	--	0		4" OD 0.050 SLOT PVC SCREEN (9.2'- 19.2')	
	Wet, soft, brown, SILT, little clay, trace gravel [ML]		SS	3	2	--	--	0			
10			SS	3	1	--	--	0			10
			SS	3	2	--	50	0			
	Wet, soft, brown, SILT, little clay, trace gravel [ML]		SS	4	4	--	--	0			
			SS	4	3	--	--	0			
			SS	4	3	--	--	0			
			SS	4	3	--	40	0			
	Moist, stiff, gray, GRAVEL, little silt and clay, weathered shale [GM]		SS	5	100/2"	--	30	3.3		SPLIT SPOON REFUSAL (13.2')	
	No Recovery		SS	5	--	--	0	0			
	Gray wackestone, interbeded shale, fossils, pyrite, tar blebs		HQ	6	--	76	--	6		REAMED COREHOLE DIAMETER INCREASED FROM 3.7" TO 5.9" (13.2' - 24.3')	
15											15

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.68 ft asl	BOREHOLE NO: **RW-02**
LOCATION: Auburn, NY	GRADE ELEV.: 631 ft asl	START DATE: 03/31/2021
CLIENT: Iberdrola	OBS. DTW: 3.56 ft bgs	COMPLETION DATE: 04/01/2021
EASTING, NORTHING (ft): 820795.9 ft, 1068282.1 ft	DATUM: NAD 83, NAVD 88	PAGE 2 of 2

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
15			HQ	6	--	76	--	6			15
	Light gray, packstone, interbedded shale, coral fossils, pyrite									4" OD PVC SUMP (19.2'-24.3')	
20			HQ	7	--	94	--	0		BENTONITE ANNULAR SEAL (19.1' - 24.3')	20
	BOREHOLE TD @ 24.30 FT BGS										
25											25
30											30

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.26 ft asl	BOREHOLE NO: **RW-03**
LOCATION: Auburn, NY	GRADE ELEV.: 630.6 ft asl	START DATE: 04/01/2021
CLIENT: Iberdrola	OBS. DTW: 3.03 ft bgs	COMPLETION DATE: 04/05/2021
EASTING, NORTHING (ft): 820825.7 ft, 1068296.5 ft	DATUM: NAD 83, NAVD 88	PAGE 1 of 2

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	Wet, soft, brown, SILT and SAND, some gravel, organics [GM]		HC	0	--	--	100	0		COMPLETED WITH FLUSH MOUNT ROAD BOX W/ CONCRETE APRON BENTONITE GROUT (0.5'-1.6')	0
										BENTONITE ANNULAR SEAL (1.6'-5.9')	
										4" OD PVC RISER (0.0'-7.3')	
5	Wet, soft, brown, SILT, some fine sand, little gravel, trace clay, wood debris [SM]		SS	1	2	--	--	0			5
			SS	1	4	--	--	0			
			SS	1	4	--	--	0		#6 BELLERMARE SAND PACK (5.9'-22.1')	
			SS	1	7	--	65	0			
	Wet, looe, brown, GRAVEL, some silt and sand [GM]		SS	2	4	--	--	0		4" OD .050 SLOT PVC SCREEN (7.3'-22.3')	
			SS	2	5	--	--	0			
	Wet, soft, brown, SILT and SAND, trace gravel and clay [SM]		SS	2	6	--	--	0			
			SS	2	6	--	80	0			
	Wet, soft, brown, SAND and SILT, trace gravel and clay [SM]		SS	3	4	--	--	0			
			SS	3	2	--	--	0			
10	Wet, dense, gray, GRAVEL [GM]		SS	3	2	--	--	0			10
	Dry, dense, gray, GRAVEL, little silt, weathered shale [GM]		SS	3	50/5"	--	65	5.5			
	NO RECOVERY		SS	4	--	--	--	0			
			SS	4	--	--	0	0			
	Dark gray, wackstone, interbedded shale, highly fractured, tar blebs		HQ	5	--	48	95	25.2		REAMED COREHOLE DIAMETER INCREASED FROM 3.7" TO 5.9" (11.0'-27.7')	
15											15

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.26 ft asl	BOREHOLE NO: **RW-03**
LOCATION: Auburn, NY	GRADE ELEV.: 630.6 ft asl	START DATE: 04/01/2021
CLIENT: Iberdrola	OBS. DTW: 3.03 ft bgs	COMPLETION DATE: 04/05/2021
EASTING, NORTHING (ft): 820825.7 ft, 1068296.5 ft	DATUM: NAD 83, NAVD 88	PAGE 2 of 2

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
15			HQ	5	--	48	95	25.2			15
	Gray, wackestone, interbedded shale, coral fossils, pyrite		HQ	6	--	66	100	5.5			
20											20
	Light gray, packstone, coral fossils, pyrite, chert		HQ	7	--	88	100	0		4" OD PVC SUMP (22.3'-27.7') BENTONITE ANNULAR SEAL (22.1'-27.7')	
25											25
	BOREHOLE TD @ 27.70 FT BGS										
30											30

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.81 ft asl	BOREHOLE NO: **RW-04**
LOCATION: Auburn, NY	GRADE ELEV.: 631.1 ft asl	START DATE: 04/05/2021
CLIENT: Iberdrola	OBS. DTW: 3.85 ft bgs	COMPLETION DATE: 04/07/2021
EASTING, NORTHING (ft): 820872.9 ft, 1068303.3 ft	DATUM: NAD 83, NAVD 88	PAGE 1 of 4

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	Moist, loose, brown, SILT, some sand and grave;, trace clay, vegatation [GM]		HC	0	--	--	100	0		COMPLETED WITH FLUSH MPUNT ROAD BOX W/ CONCRETE APRON BENTONITE GROUT (0.5'-3')	0
										BENTONITE SEAL (3'-6')	
5	Moist, loose, brown-black, SILT, some sand, little gravel, trace clay, wood debris, brick fragments [GM]		SS	1	3	--	--	0		4" OD PVC RISER (0'- 7.4')	5
			SS	1	4	--	--	0			
			SS	1	4	--	--	0		#6 BELLEMARE SAND PACK (6'-47.1')	
			SS	1	3	--	50	0			
	Wet, loose, brown, SILT and GRAVEL, little fine sand [GM]		SS	2	3	--	--	0			
	Moist, loose, brown-black, SAND and SILT, little gravel, wood debris [SM]		SS	2	3	--	--	0		4" OD .050 SLOT PVC SCREEN (7.4'-47.4')	
			SS	2	3	--	--	0			
			SS	2	3	--	100	0			
	Wet, soft, brown, SILT, some sand, little gravel [SM]		SS	3	2	--	--	0			
10			SS	3	2	--	--	0			10
			SS	3	1	--	--	0			
			SS	3	1	--	30	0			
	Wet, dense, gray-black, GRAVEL, little silt, weathered shale [GW]		SS	4	1	--	--	0			
			SS	4	1	--	--	0			
			SS	4	3	--	--	0			
			SS	4	100/6"	--	25	0			
	Dark gray, wackestone, interbedded shale, pyrite		HQ	5	--	76	98	0			
15											15

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.81 ft asl	BOREHOLE NO: **RW-04**
LOCATION: Auburn, NY	GRADE ELEV.: 631.1 ft asl	START DATE: 04/05/2021
CLIENT: Iberdrola	OBS. DTW: 3.85 ft bgs	COMPLETION DATE: 04/07/2021
EASTING, NORTHING (ft): 820872.9 ft, 1068303.3 ft	DATUM: NAD 83, NAVD 88	PAGE 2 of 4

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
15			HQ	5	--	76	98	0		REAMED COREHOLE DIAMETER INCREASED FROM 3.7" TO 5.9" (13.0'-52.8')	15
	Light gray, wackestone, interbedded shale, pyrite										
	Gray, wackestone, interbedded shale, tar blebs										
20	Gray, packstone, interbedded shale, coral fossils, tar blebs		HQ	6	--	86	96	15			20
	Gray, packstone, interbedded shale, coral fossils, little chert, tar blebs										
25			HQ	7	--	85	99	7			25
	Chert gravel, tar blebs										
	Gray, packstone, interbedded shale, coral fossils, little chert, tar blebs										
	Gray, packstone, interbedded shale, coral fossils, little chert, tar blebs										
	Gray, wackestone, interbedded shale, fossils, some chert gravel, tar blebs		HQ	8	--	53	100	52.3			
30											30

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.81 ft asl	BOREHOLE NO: **RW-04**
LOCATION: Auburn, NY	GRADE ELEV.: 631.1 ft asl	START DATE: 04/05/2021
CLIENT: Iberdrola	OBS. DTW: 3.85 ft bgs	COMPLETION DATE: 04/07/2021
EASTING, NORTHING (ft): 820872.9 ft, 1068303.3 ft	DATUM: NAD 83, NAVD 88	PAGE 3 of 4

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
30			HQ	8	--	53	100	52.3			30
	Dark gray, wackestone, interbedded shale, fossils, little chert gravel, tar blebs		HQ	9	--	93	100	4.5			
35											35
	Gray, packstone, interbedded shale, fossils, tar blebs		HQ	10	--	84	100	2.1			
40											40
	Dark gray-black, wackestone, interbedded shale		HQ	11	--	84	100	0			
	Gray, wackestone, interbedded shale										
45											45

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.81 ft asl	BOREHOLE NO: **RW-04**
LOCATION: Auburn, NY	GRADE ELEV.: 631.1 ft asl	START DATE: 04/05/2021
CLIENT: Iberdrola	OBS. DTW: 3.85 ft bgs	COMPLETION DATE: 04/07/2021
EASTING, NORTHING (ft): 820872.9 ft, 1068303.3 ft	DATUM: NAD 83, NAVD 88	PAGE 4 of 4

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
45			HQ	11	--	84	100	0		4" OD PVC SUMP (47.4'-52.8')	45
	Gray, wackestone, interbedded shale									BENTONITE ANNULAR SEAL (47.1'-52.8')	
50			HQ	12	--	99	96	0			50
	BOREHOLE TD @ 52.80 FT BGS										
55											55
60											60

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.60 ft asl	BOREHOLE NO: **RW-05**
LOCATION: Auburn, NY	GRADE ELEV.: 630.9 ft asl	START DATE: 04/20/2021
CLIENT: Iberdrola	OBS. DTW: 3.66 ft bgs	COMPLETION DATE: 04/22/2021
EASTING, NORTHING (ft): 820926.8 ft, 1068317.5 ft	DATUM: NAD 83, NAVD 88	PAGE 1 of 6

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	Moist, soft, brown,SILT, some sand and gravel, trace clay, wood debris, vegatation [GM]		HC	0	--	--	100	0		COMPLETED WITH FLUSH MOUNT ROAD BOX W/ CONCRETE APRON BENTONITE GROUT (0.5'-3.7')	0
										4" OD PVC RISER (0.0'-7.9')	
										BENTONITE ANNULAR SEAL (3.7'-6.9')	
5	Moist, loose, dark brown, SAND and SILT, some gravel [GM]		SS	1	3	--	--	0			5
			SS	1	4	--	--	0			
			SS	1	3	--	--	0			
			SS	1	4	--	29	0		#6 BELLEMARE SAND PACK (6.9'-67.9')	
	Moist, soft, brown-black, fine SAND and SILT, little gravel, trace clay [SM]		SS	2	4	--	--	0			
			SS	2	6	--	--	0			
			SS	2	5	--	--	0		4" OD .050 SLOT PVC SCREEN (7.9'-67.9')	
			SS	2	4	--	5	0			
	Moist, medium stiff, purple-brown, fine SAND and SILT, little gravel, trace clay [SM]		SS	3	2	--	--	0			
			SS	3	4	--	--	0			
10			SS	3	6	--	--	0			10
			SS	3	7	--	50	16.9			
	Wet, medium stiff, purple-brown, fine SAND and SILT, little gravel, trace clay [SM]		SS	4	5	--	--	0			
	Dry, loose, dark gray, GRAVEL, weathered shale [GW]		SS	4	100/4"	--	50	1.5			
	NO RECOVERY		SS	4	--	--	--	0			
	Gray, wackestone, interbedded shale, burrows, fossils, pyrite		HQ	5	--	70	100	40.1			
15											15

PARSONS

CONTRACTOR: ATL			
DRILLER: M. Childs	EQUIPMENT: CME-55		
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in	

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.60 ft asl	BOREHOLE NO: **RW-05**
LOCATION: Auburn, NY	GRADE ELEV.: 630.9 ft asl	START DATE: 04/20/2021
CLIENT: Iberdrola	OBS. DTW: 3.66 ft bgs	COMPLETION DATE: 04/22/2021
EASTING, NORTHING (ft): 820926.8 ft, 1068317.5 ft	DATUM: NAD 83, NAVD 88	PAGE 2 of 6

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
15										REAMED COREHOLE DIAMETER INCREASED FROM 3.7" TO 5.9" (12.0'-73.1')	15
	Gray, wackestone, interbedded shale, fossils, tar blebs		HQ	5	--	70	100	40.1			
	Gray, wackestone, interbedded shale, trace chert gravel, tar blebs										
	Light gray, wackestone, interbedded shale, fossils, tar blebs		HQ	6	--	66	98	15			
20											20
	Gray, packstone, coral fossils										
	Chert gravel interval										
25	Dark gray, wackestone, interbedded shale, verticle fractures, tar blebs		HQ	7	--	35	100	2			25
	Dark gray, wackestone, interbedded shale, fossils, pyrite, verticle fractures, little chert, tar bleb		HQ	8	--	75	100	2.5			
30											30

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.60 ft asl	BOREHOLE NO: **RW-05**
LOCATION: Auburn, NY	GRADE ELEV.: 630.9 ft asl	START DATE: 04/20/2021
CLIENT: Iberdrola	OBS. DTW: 3.66 ft bgs	COMPLETION DATE: 04/22/2021
EASTING, NORTHING (ft): 820926.8 ft, 1068317.5 ft	DATUM: NAD 83, NAVD 88	PAGE 3 of 6

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
30			HQ	8	--	75	100	2.5			30
	Dark gray, wackestone, interbedded shale, little chert, verticle fractures										
35			HQ	9	--	58	100	0.3			35
	Dark gray, wackestone, interbedded shale, fossils, horizontal and vertical fractures										
40			HQ	10	--	62	100	0.5			40
	Light gray, wackestone, interbedded shale, verticle fractures, tar blebs										
45			HQ	11	--	90	100	20.5			45

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.60 ft asl	BOREHOLE NO: **RW-05**
LOCATION: Auburn, NY	GRADE ELEV.: 630.9 ft asl	START DATE: 04/20/2021
CLIENT: Iberdrola	OBS. DTW: 3.66 ft bgs	COMPLETION DATE: 04/22/2021
EASTING, NORTHING (ft): 820926.8 ft, 1068317.5 ft	DATUM: NAD 83, NAVD 88	PAGE 4 of 6

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
45											45
	Dark gray, wackestone, interbedded shale, tar blebs		HQ	11	--	90	100	20.5			
	Dark gray, wackestone, interbedded shale										
	Light gray, wackestone, interbedded shale, tar blebs										
50			HQ	12	--	100	100	0			50
	Dark gray, wackestone, interbedded shale										
	Dark gray, wackestone										
	Light gray, wackestone, interbedded shale, vertical fractures										
55			HQ	13	--	90	100	0.5			55
	Dark gray, wackestone, interbedded shale										
	Light gray, wackestone										
			HQ	14	--	66	98	0			
	Gray wackestone, interbedded shale, little chert										
60											60

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.60 ft asl	BOREHOLE NO: **RW-05**
LOCATION: Auburn, NY	GRADE ELEV.: 630.9 ft asl	START DATE: 04/20/2021
CLIENT: Iberdrola	OBS. DTW: 3.66 ft bgs	COMPLETION DATE: 04/22/2021
EASTING, NORTHING (ft): 820926.8 ft, 1068317.5 ft	DATUM: NAD 83, NAVD 88	PAGE 5 of 6

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
60			HQ	14	--	66	98	0			60
	Dark gray, wackestone										
	Dark gray, wackestone, interbedded shale, horizontal fractures										
65	Light gray, wackestone, interbedded shale, horizontal fractures		HQ	15	--	64	98	0.1			65
	Gray, wackestone, interbedded shale, white mineralized veins									4" OD PVC SUMP (67.9'-73.1')	
70			HQ	16	--	88	98	0		BENTONITE ANNULAR SEAL (67.9'-73.1')	70
	BOREHOLE TD @ 73.10 FT BGS										
75											75

PARSONS	CONTRACTOR: ATL		
	DRILLER: M. Childs	EQUIPMENT: CME-55	
	OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.60 ft asl	BOREHOLE NO: **RW-05**
LOCATION: Auburn, NY	GRADE ELEV.: 630.9 ft asl	START DATE: 04/20/2021
CLIENT: Iberdrola	OBS. DTW: 3.66 ft bgs	COMPLETION DATE: 04/22/2021
EASTING, NORTHING (ft): 820926.8 ft, 1068317.5 ft	DATUM: NAD 83, NAVD 88	PAGE 6 of 6

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
75											75
80											80
85											85
90											90

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.77 ft asl	BOREHOLE NO: **RW-06**
LOCATION: Auburn, NY	GRADE ELEV.: 631 ft asl	START DATE: 04/07/2021
CLIENT: Iberdrola	OBS. DTW: 3.36 ft bgs	COMPLETION DATE: 04/10/2021
EASTING, NORTHING (ft): 820977.5 ft, 1068309.2 ft	DATUM: NAD 83, NAVD 88	PAGE 1 of 2

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	Moist, soft, brown, SILT and SAND, little gravel, trace clay, wood debris, vegatation [SM]		HC	0	--	--	100	0		COMPLETED WITH FLUSH MOUNT ROAD BOX W/ CONCRETE APRON BENTONITE GROUT (0.5'-2.5')	0
										BENTONITE ANNULAR SEAL (2.5'-6')	
										4" OD PVC RISER (0.0'-7.05')	
5	Moist, medium stiff, SILT and SAND, little gravel [SM]		SS	1	5	--	--	0			5
			SS	1	2	--	--	0			
			SS	1	5	--	--	0		#6 BELLEMARE SAND PACK (6'-22.05')	
			SS	1	5	--	50	0			
	Wet, medium stiff, brown, SILT, little clay and gravel [ML]		SS	2	5	--	--	0		4" OD .050 SLOT PVC SCREEN (7.05'-22.05')	
			SS	2	6	--	--	0			
			SS	2	4	--	--	0			
			SS	2	4	--	100	0			
	Wet, soft, brown, SILT, little clay, trace gravel, wood debris [ML]		SS	3	1	--	--	0			
10			SS	3	1	--	--	0			10
			SS	3	3	--	--	0			
			SS	3	4	--	50	1.7			
	Wet, dense, brown-black, GRAVEL, some silt, litle clay, weathered shale [GM]		SS	4	100/3"	--	13	0.5			
	Gray, wackestone, interbedded shale, burrow marks, fossils, horizontal fractures		HQ	5	--	83	100	0			
15											15

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.77 ft asl	BOREHOLE NO: **RW-06**
LOCATION: Auburn, NY	GRADE ELEV.: 631 ft asl	START DATE: 04/07/2021
CLIENT: Iberdrola	OBS. DTW: 3.36 ft bgs	COMPLETION DATE: 04/10/2021
EASTING, NORTHING (ft): 820977.5 ft, 1068309.2 ft	DATUM: NAD 83, NAVD 88	PAGE 2 of 2

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
15			HQ	5	--	83	100	0		REAMED COREHOLE DIAMETER INCREASED FROM 3.7" TO 5.9" (11.5'-27.2')	15
	Light gray, wackestone, vertical fractures										
	Dark gray, wackestone, interbedded shale, fossils, pyrite		HQ	6	--	78	100	0			
20											20
	Gray wackestone, fossils										
	Gray, packstone, interbedded shale, fossils									4" OD PVC SUMP (22.05'-27.2')	
	Black chert gravel interval		HQ	7	--	84.6	100	0			
	Gray, wackestone									BENTONITE ANNULAR SEAL (22.05'-27.2')	
25											25
	BOREHOLE TD @ 26.50 FT BGS										
30											30

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.55 ft asl	BOREHOLE NO: **RW-07**
LOCATION: Auburn, NY	GRADE ELEV.: 631.1 ft asl	START DATE: 04/09/2021
CLIENT: Iberdrola	OBS. DTW: 3.15 ft bgs	COMPLETION DATE: 04/12/2021
EASTING, NORTHING (ft): 821027.3 ft, 1068279.3 ft	DATUM: NAD 83, NAVD 88	PAGE 1 of 3

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	Moist, loose, SILT and SAND, little gravel, trace clay, wood debris, vegatation [SM]		HC	0	--	--	100	0		COMPLETED WITH FLUSH MOUNT ROAD BOX W/ CONCRETE APRON BENTONITE GROUT (1.0'-4.9') 4" OD PVC RISER (0.0'-8.11')	0
5	Moist, soft, brown, SILT and SAND, some gravel, trace clay [SM]		SS	1	6	--	--	0		BENTONITE ANNULAR SEAL (4.9'-7.9')	5
	Moist, soft, brown-purple, SILT and SAND, some gravel, trace clay [SM]		SS	1	3	--	--	0			
			SS	1	2	--	--	0			
			SS	1	3	--	50	0			
	Moist, medium stiff, brown-purple, SILT and SAND, some gravel, trace clay [SM]		SS	2	5	--	--	0			
			SS	2	6	--	--	0			
	Dry, medium dense, black, SAND and GRAVEL, some silt [GM]		SS	2	8	--	--	0		#6 BELLEMARE SAND PACK (7.9'-28.11') 4" OD .050 SLOT PVC SCREEN (8.11'-28.11')	
			SS	2	16	--	60	0			
	NO RECOVERY		SS	3	50/5"	--	--	0			
			SS	3	--	--	--	0			
10			SS	3	12	--	--	0		REAMED COREHOLE DIAMETER INCREASED FROM 3.7" TO 5.9" (9.0'-34.1')	10
	Wet, dense, gray-brown, SILT and CLAY, some sand and gravel [ML]		SS	3	22	--	15	0			
	Dry, dense, black, GRAVEL, weathered shale [GW]		SS	4	75	--	54	0			
	Dark gray, wackestone, interbedded shale, fossils, pyrite		HQ	5	--	67	73	7			
15											15

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.55 ft asl	BOREHOLE NO: **RW-07**
LOCATION: Auburn, NY	GRADE ELEV.: 631.1 ft asl	START DATE: 04/09/2021
CLIENT: Iberdrola	OBS. DTW: 3.15 ft bgs	COMPLETION DATE: 04/12/2021
EASTING, NORTHING (ft): 821027.3 ft, 1068279.3 ft	DATUM: NAD 83, NAVD 88	PAGE 2 of 3

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
15											15
	Light gray, wackestone, interbedded shale, fossils		HQ	5	--	67	73	7			
	Light gray, wackestone, interbedded shale, fossils, tar blebs										
20			HQ	6	--	91	98	38			20
	Light gray, packstone, interbedded shale, fossils, tar belbs										
	Light gray, packstone, interbedded shale, fossils, tar belbs										
	Black chert gravel interval, fossils										
25	Gray, packstone, fossils, interbedded shale, tar blebs		HQ	7	--	94	99	25			25
	Gray, wackestone, interbedded shale, fossils, tar blebs									4" OD PVC SUMP (28.11'-34')	
	Dark gray, wackestone, fossils		HQ	8	--	94	100	2			
30											30

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 630.55 ft asl	BOREHOLE NO: **RW-07**
LOCATION: Auburn, NY	GRADE ELEV.: 631.1 ft asl	START DATE: 04/09/2021
CLIENT: Iberdrola	OBS. DTW: 3.15 ft bgs	COMPLETION DATE: 04/12/2021
EASTING, NORTHING (ft): 821027.3 ft, 1068279.3 ft	DATUM: NAD 83, NAVD 88	PAGE 3 of 3

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
30			HQ	8	--	94	100	2		BENTONITE ANNULAR SEAL (28.11'-34')	30
	BOREHOLE TD @ 34.10 FT BGS										
35											35
40											40
45											45

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 631.51 ft asl	BOREHOLE NO: **RW-08**
LOCATION: Auburn, NY	GRADE ELEV.: 631.8 ft asl	START DATE: 04/15/2021
CLIENT: Iberdrola	OBS. DTW: 3.48 ft bgs	COMPLETION DATE: 04/16/2021
EASTING, NORTHING (ft): 821047.8 ft, 1068224 ft	DATUM: NAD 83, NAVD 88	PAGE 1 of 2

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	Wet, loose, Sand and GRAVEL, some silt, wood debris, vegatation [GP]		HC	0	--	--	100	0		COMPLETED WITH FLUSH MOUNT ROAD BOX W/ CONCRETE APRON BENTONITE GROUT (0.5'-4.3')	0
										BENTONITE ANNULAR SEAL (4.3'-7.6')	
5	NO RECOVERY		SS	1	9	--	--	0			5
			SS	1	6	--	--	0		4" OD PVC RISER (0.0'-8.8')	
			SS	1	6	--	--	0			
			SS	1	9	--	0	0			
	Moist, medium stiff, brown-purple, fine sand and silt, trace gravel and clay [SM]		SS	2	5	--	--	0			
			SS	2	5	--	--	0		#6 BELLEMARE SAND PACK (7.6'-23.8')	
			SS	2	6	--	--	0			
			SS	2	9	--	75	0		4" OD .050 SLOT PVC SCREEN (8.8'-23.8')	
	Moist, medium stiff, brown-purple, fine sand and silt, trace gravel and clay [SM]		SS	3	8	--	--	0			
			SS	3	7	--	--	0			
10	Wet, loose, gray, SAND and GRAVEL, sheen [GP]		SS	3	8	--	--	0			10
			SS	3	9	--	60	1			
	Wet, loose, gray, SAND and GRAVEL, sheen [GP]		SS	4	12	--	--	0			
	Wet, medium stiff, gray, SILT and CLAY, some sand [SM]		SS	4	18	--	--	0			
	Wet, dense, dark gray, GRAVEL and SILT, weathered shale [GM]		SS	4	26	--	50	1.2			
	NO RECOVERY		SS	4	100/5"	--	0	0			
	Gray, wackestone, interbedded shale, fossils		HQ	5	--	84	97	0		REAMED COREHOLE DIAMETER INCREASED FROM 3.7" TO 5.9" (12.5'-29')	
15											15

PARSONS

CONTRACTOR: ATL			
DRILLER: M. Childs	EQUIPMENT: CME-55		
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in	

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 631.51 ft asl	BOREHOLE NO: **RW-08**
LOCATION: Auburn, NY	GRADE ELEV.: 631.8 ft asl	START DATE: 04/15/2021
CLIENT: Iberdrola	OBS. DTW: 3.48 ft bgs	COMPLETION DATE: 04/16/2021
EASTING, NORTHING (ft): 821047.8 ft, 1068224 ft	DATUM: NAD 83, NAVD 88	PAGE 2 of 2

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
15			HQ	5	--	84	97	0			15
	Gray, wackestone, interbedded shale, fossils, pyrite, tar blebs										
20			HQ	6	--	86	100	4			20
	Light gray, packstone, interbedded shale, fossils										
	Light gray, packstone, interbedded shale, fossils, pyrite									4" OD PVC SUMP (23.8'-29')	
25			HQ	7	--	99	98	0		BENTONITE ANNULAR SEAL (23.8'-29')	25
	Chert gravel interval										
	Light gray, packstone, interbedded shale, fossils, pyrite										
	BOREHOLE TD @ 27.90 FT BGS										
30											30

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 632.62 ft asl	BOREHOLE NO: **RW-09**
LOCATION: Auburn, NY	GRADE ELEV.: 632.9 ft asl	START DATE: 04/22/2021
CLIENT: Iberdrola	OBS. DTW: 4.75 ft bgs	COMPLETION DATE: 04/26/2021
EASTING, NORTHING (ft): 821036.5 ft, 1068168.4 ft	DATUM: NAD 83, NAVD 88	PAGE 1 of 2

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	Gray, loose, GRAVEL, some silt and sand, slag [GP]									COMPLETED WITH FLUCH MOUNT ROAD BOX W/ CONCRETE APRON BENTONITE GROUT (0.5'-3.7')	0
	Moist, loose, red-brown, SILT and SAND, some gravel [GP]		HC	0	--	--	100	0			
	Wet, green-gray, SILT and SAND, some clay [ML]									BENTONITE ANNULAR SEAL (3.7'-7.3')	
										4" OD PVC RISER (0.0'-8.11')	
5	Wet, soft, brown-gray, SILT, little clay and sand [ML]		SS	1	1	--	--	0			5
			SS	1	1	--	--	0			
			SS	1	1	--	--	0			
			SS	1	2	--	50	0.3			
	Wet, stiff, brown, SILT, little sand and clay [ML]		SS	2	10	--	--	0			
			SS	2	10	--	--	0		#6 BELLEMARE SAND PACK (7.3'-23.85')	
	Moist, stiff, brown-purple, SILT, some sand, trace clay [SM]		SS	2	14	--	--	0			
			SS	2	13	--	100	0		4" OD .050 SLOT PVC SCREEN (8.11'-23.11')	
	Moist, medium stiff, brown-purple, SILT, some sand, trace clay [SM]		SS	3	6	--	--	0			
			SS	3	7	--	--	0			
10	Wet, medium dense, brown, SAND and GRAVEL, some silt [GM]		SS	3	8	--	--	0			10
			SS	3	14	--	66	0.3			
	Moist, stiff, brown-purple, SILT, some sand, trace clay [SM]		SS	4	10	--	--	0			
	Wet, medium dense, brown, SAND and GRAVEL, some silt [SM]		SS	4	15	--	--	0			
	Wet, dense, dark gray, GRAVEL, weathered shale [GM]		SS	4	12	--	--	0			
			SS	4	26	--	68	1.5			
	Wet, dense, dark gray, GRAVEL, weathered shale [GM] NO RECOVERY		SS	5	50/1"	--	8	10			
	Gray, wackestone, interbedded shale, burrows, fossils, pyrite		HQ	6	--	77	95	0			
15											15

PARSONS	CONTRACTOR: ATL		
	DRILLER: M. Childs	EQUIPMENT: CME-55	
	OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 632.62 ft asl	BOREHOLE NO: **RW-09**
LOCATION: Auburn, NY	GRADE ELEV.: 632.9 ft asl	START DATE: 04/22/2021
CLIENT: Iberdrola	OBS. DTW: 4.75 ft bgs	COMPLETION DATE: 04/26/2021
EASTING, NORTHING (ft): 821036.5 ft, 1068168.4 ft	DATUM: NAD 83, NAVD 88	PAGE 2 of 2

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
15			HQ	6	--	77	95	0		REAMED COREHOLE DIAMETER INCREASED FROM 3.7" TO 5.9" (13.2'-29.2')	15
	Gray, wackestone, interbedded shale, coral fossils										
20											20
	Light gray, packstone, interbedded shale, coral fossils		HQ	7	--	88	100	0.2		4" OD PVC SUMP (23.10'-29.2')	
	Gray, packstone, chert gravel										
25	Gray, wackestone		HQ	8	--	90	97	0.1		BENTONITE ANNULAR SEAL (23.85'-29.2')	25
	Dark gray, wackestone										
	NO RECOVERY										
	BOREHOLE TD @ 29.20 FT BGS										
30											30

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 633.37 ft asl	BOREHOLE NO: **RW-10**
LOCATION: Auburn, NY	GRADE ELEV.: 633.7 ft asl	START DATE: 04/22/2021
CLIENT: Iberdrola	OBS. DTW: 4.52 ft bgs	COMPLETION DATE: 04/23/2021
EASTING, NORTHING (ft): 821033.8 ft, 1068115.7 ft	DATUM: NAD 83, NAVD 88	PAGE 1 of 2

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
0	Dry, loose, gray, GRAVEL, some silt and sand, slag [GP]									COMPLETED WITH FLUSH MOUNT ROAD BOX W/ CONCRETE APRON BENTONITE GROUT (0.5'-3.11')	0
	Moist, loose, red-brown, SAND and GRAVEL, some silt, brick debris [GM]		HC	0	--	--	100	0		BENTONITE ANNULAR SEAL (3.11'-7.4')	
	Wet, soft, green-gray, SILT and SAND, some clay [ML]										
5	Moist, loose, brown-gray, SILT and SAND, some gravel, little clay [GM]		SS	1	6	--	--	0		4" OD PVC RISER (0.0'-23.85')	5
			SS	1	7	--	--	0			
			SS	1	8	--	--	0			
			SS	1	11	--	66	0			
	Wet, dense, brown-gray, GRAVEL and SAND, some silt [GM]		SS	2	31	--	--	0		#6 BELLEMARE SAND PACK (7.4'-23.7')	
			SS	2	39	--	--	0			
			SS	2	31	--	--	0			
			SS	2	27	--	25	0		4" OD .050 SLOT PVC SCREEN (8.85'-23.85')	
	Wet, dense, gray, GRAVEL, some silt, little clay [GM]		SS	3	100/5"	--	--	0			
	Moist, medium stiff, brown-purple, SILT and SAND [SM]		SS	3	18	--	--	0			
10			SS	3	19	--	--	0			10
			SS	3	11	--	50	0			
	Moist, medium dense, gray, GRAVEL, some silt, trace clay [GM]		SS	4	41	--	--	0			
			SS	4	25	--	--	0			
	Wet, dense, brown-black, GRAVEL, some silt and sand, weathered shale [GM]		SS	4	100/5"	--	--	0			
			SS	4	100/5"	--	25	0			
			DC	5	--	--	--	0			
	Gray, wackestone, interbedded shale, fossils, pyrite, horizontal fractures		HQ	6	--	75	80	0			
15											15

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

BOREHOLE LOG

PROJECT: 452563 - Clark Street Former MGP Site	TOC ELEV.: 633.37 ft asl	BOREHOLE NO: **RW-10**
LOCATION: Auburn, NY	GRADE ELEV.: 633.7 ft asl	START DATE: 04/22/2021
CLIENT: Iberdrola	OBS. DTW: 4.52 ft bgs	COMPLETION DATE: 04/23/2021
EASTING, NORTHING (ft): 821033.8 ft, 1068115.7 ft	DATUM: NAD 83, NAVD 88	PAGE 2 of 2

Depth (ft)	STRATIGRAPHIC DESCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS	RQD	RECOVERY %	PID (ppm)	WELL INSTALLATION	COMMENTS AND MONITORING WELL NOTES	Depth (ft)
15			HQ	6	--	75	80	0		REAMED COREHOLE DIAMETER INCREASED FROM 3.7" TO 5.9" (13.2'-28.10')	15
	Gray, packstone, interbedded shale, coral fossils Gray, wackestone, interbedded shale										
20			HQ	7	--	99	100	0			20
	Black chert gravel interval										
	Dark gray, wackestone, interbedded shale, chery gravel									4" OD PVC SUMP (23.95'-28.10')	
25			HQ	8	--	88	100	0		BENTONITE ANNULAR SEAL (23.7'-28.10')	25
	NO RECOVERY		NR	10	--	--	--	0			
	BOREHOLE TD @ 29.11 FT BGS										
30											30

PARSONS

CONTRACTOR: ATL		
DRILLER: M. Childs	EQUIPMENT: CME-55	
OVERSIGHT: Z. Cornish	METHOD: Split Spoon/Rock Coring	BOREHOLE DIA.: 6 in

AVANGRID BOREHOLE LOG AVANGRID BASE PROJECT.GPJ AVANGRID_TEMPLATE.GDT 9/17/21

APPENDIX B-1 – GROUNDWATER SAMPLING LOGS

Low Flow Ground Water Sampling Log

Date	09/30/21	Personnel	Z. Cornish, K. Moranz	Weather	Rain, high of 65
Site Name	Clark St	Evacuation Method	Peristaltic Pump	Well #	MW-PAR-01
Site Location	Auburn NY	Sampling Method	Low Flow	Project #	452563

Well information:

Well Depth	12.9 ft.	*Measurements taken from:		
Water Depth	3.7 ft.		X	Top of Well Casing
Water Column	9.2 ft.			Top of Protective Casing
Depth to Intake	10 ft.			(Other, Specify)

Start Purge Time: 1050

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
5	4.21	14.05	6.49	1.83	-224	4.27	88.2	200
10	4.22	13.76	6.56	1.86	-231	3.59	34.4	200
15	4.23	13.69	6.55	1.87	-227	3.52	21.1	200
20	4.24	13.72	6.59	1.86	-227	3.3	13.1	200
25	4.25	13.73	6.58	1.86	-227	3.04	8.7	200
30	4.26	13.63	6.57	1.85	-226	3	4	200
35	4.26	13.62	6.56	1.87	-228	3.01	4	200
40	4.26	13.64	6.56	1.86	-228	3.01	3.9	200

End Purge Time: 1140

Water Sample

Time Collected: 1145

Total volume of purged water removed: 2.1 (gallons)

Physical appearance at start:		Physical appearance at start:	
Color	Clear	Color	Clear
Odor	Present	Odor	None
Sheen/Free Product	None	Sheen/Free Product	None

Samples: (See list of parameters collected below)

MW-PAR-01-09302021
MW-PAR-01-09302021 MS
MW-PAR-01-09302021 MSD
BD-09302021

Field Notes:

COC #: 480-166078-3639.1
MS/MSD/Field Dup Collected

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
BTEX	40 mL VOA	3	no	HCL	-
1,4 Dioxane	250 mL Amber	2	no	none	-
PAHs	1 L Amber	2	no	none	-
PFAS	250 mL Plastic	2	no	none	-

Low Flow Ground Water Sampling Log

Date	09/30/21	Personnel	Z. Cornish, K. Moranz	Weather	Rain, high of 65
Site Name	Clark St	Evacuation Method	Peristaltic Pump	Well #	MW-PAR-02
Site Location	Auburn NY	Sampling Method	Low Flow	Project #	452563

Well information:

Well Depth	12.58 ft.	*Measurements taken from:		
Water Depth	3.59 ft.		X	Top of Well Casing
Water Column	8.99 ft.			Top of Protective Casing
Depth to Intake	11.08 ft.			(Other, Specify)

Start Purge Time: 1100

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
5	4.12	16.37	6.69	1.91	-152	3.5	335	250
10	4.57	14.87	6.87	1.97	-352	1.16	80.6	250
15	4.62	14.91	6.87	1.96	-355	0.89	11.3	250
20	4.67	14.9	6.88	1.96	-359	0.75	6.1	250
25	4.73	14.97	6.85	1.96	-359	0.68	6.2	250
30	4.8	14.94	6.84	1.96	-361	0.63	4.5	250
35	4.86	14.88	6.82	1.97	-362	0.6	3.6	250
40	5.04	14.74	6.79	1.98	-361	0.57	1.5	250
45	5.1	14.64	6.77	1.98	-362	0.54	2.3	250
50	5.2	14.63	6.74	1.98	-362	0.52	2.3	250

End Purge Time: 1145

Water Sample

Time Collected: 1150

Total volume of purged water removed: 3 (gallons)

Physical appearance at start:

Color Clear
Odor None
Sheen/Free Product None

Physical appearance at start:

Color Clear
Odor None
Sheen/Free Product None

Samples: (See list of parameters collected below)
MW-PAR-02-09302021

Field Notes:
COC #: 480-166078-3639.1
No MS/MSD/Field Dup Collected

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
BTEX	40 mL VOA	3	no	HCL	-
1,4 Dioxane	250 mL Amber	2	no	none	-
PAHs	1 L Amber	2	no	none	-
PFAS	250 mL Plastic	2	no	none	-

Low Flow Ground Water Sampling Log

Date	09/30/21	Personnel	Z. Cornish, K. Moranz	Weather	Rain, high of 65
Site Name	Clark St	Evacuation Method	Peristaltic Pump	Well #	MW-01B
Site Location	Auburn NY	Sampling Method	Low Flow	Project #	452563

Well information:

Well Depth	33.6 ft.	*Measurements taken from:		
Water Depth	11.35 ft.		X	Top of Well Casing
Water Column	22.25 ft.			Top of Protective Casing
Depth to Intake	32 ft.			(Other, Specify)

Start Purge Time: 1515

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
5	11.5	14.39	7.15	2.94	-323	4.9	23.4	350
10	12.18	13.33	7.7	2.96	-372	0.61	20.2	350
15	12.4	12.96	7.66	3	-362	0.64	14.2	350
20	12.55	12.82	7.57	3.01	-354	0.58	11.5	350
25	12.55	12.83	7.53	3.07	-337	0.57	9.9	350
30	12.65	12.89	7.38	3.1	-315	0.46	8.1	350
35	12.55	13.15	7.26	3.18	-285	0.45	6.2	350
40	12.55	13.32	7.2	3.21	-265	0.49	5.9	350
45	12.55	13.3	7.14	3.2	-262	0.4	6.5	350
50	12.55	13.4	7.14	3.24	-254	0.44	6.4	350

End Purge Time: 1350

Water Sample

Time Collected: 1400

Total volume of purged water removed: 4.5 (gallons)

Physical appearance at start:

Color Clear
Odor Present
Sheen/Free Product Sheen

Physical appearance at start:

Color Clear
Odor Present
Sheen/Free Product Sheen

Samples: (See list of parameters collected below)
MW-01B-09302021

Field Notes:
COC #: 480-166078-3639.1
No MS/MSD/Field Dup Collected

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
BTEX	40 mL VOA	3	no	HCL	-
1,4 Dioxane	250 mL Amber	2	no	none	-
PAHs	1 L Amber	2	no	none	-
PFAS	250 mL Plastic	2	no	none	-

Low Flow Ground Water Sampling Log

Date	09/30/21	Personnel	Z. Cornish, K. Moranz	Weather	Rain, high of 65
Site Name	Clark St	Evacuation Method	Peristaltic Pump	Well #	MW-10D
Site Location	Auburn NY	Sampling Method	Low Flow	Project #	452563

Well information:

Well Depth	61.33 ft.	*Measurements taken from:	
Water Depth	3.9 ft.	X	Top of Well Casing
Water Column	57.43 ft.		Top of Protective Casing
Depth to Intake	41.33 ft.		(Other, Specify)

Start Purge Time: 1515

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
5	4.15	13.61	7.7	1.49	-266	8.16	41.9	350
10	4.22	12.25	7.22	1.56	-264	1.71	40.5	350
15	4.31	12.16	7.2	1.56	-266	1.14	33.9	350
20	4.35	12.31	7.19	1.55	-266	0.85	29.7	350
25	4.35	12.36	7.19	1.55	-266	0.75	17.4	350
30	4.35	12.4	7.19	1.54	-266	0.65	17.6	350
35	4.35	13.13	7.23	1.54	-259	0.83	16.1	350
40	4.35	13	7.14	1.54	-263	0.48	14.9	350
45	4.35	12.57	7.17	1.53	-271	0.41	18	350
50	4.33	12.38	7.13	1.52	-271	0.39	19.9	350
55	4.32	12.37	7.13	1.53	-272	0.39	20.7	350
60	4.32	12.35	7.14	1.54	-275	0.36	18.4	350
65	4.32	12.32	7.11	1.54	-274	0.34	18.2	350
70	4.32	12.36	7.1	1.54	-274	0.33	18.1	350
75	4.32	12.35	7.1	1.54	-275	0.33	17.8	350

End Purge Time: 1630

Water Sample

Time Collected: 1635

Total volume of purged water removed: 6.9 (gallons)

Physical appearance at start:

Color Clear
Odor Present
Sheen/Free Product None

Physical appearance at start:

Color Clear
Odor Present
Sheen/Free Product None

Samples: (See list of parameters collected below)

MW-10D-09302021
EB-09302021
TB1-09302021

Field Notes:

COC #: 480-166078-3639.1
No MS/MSD/Field Dup Collected

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
BTEX	40 mL VOA	3	no	HCL	-
1,4 Dioxane	250 mL Amber	2	no	none	-
PAHs	1 L Amber	2	no	none	-
PFAS	250 mL Plastic	2	no	none	-

Low Flow Ground Water Sampling Log

Date	09/30/21	Personnel	Z. Cornish, K. Moranz	Weather	Rain, high of 65
Site Name	Clark St	Evacuation Method	Peristaltic Pump	Well #	MW-09D
Site Location	Auburn NY	Sampling Method	Low Flow	Project #	452563

Well information:

Well Depth	38.8 ft.	*Measurements taken from:		
Water Depth	6.29 ft.		X	Top of Well Casing
Water Column	32.51 ft.			Top of Protective Casing
Depth to Intake	35 ft.			(Other, Specify)

Start Purge Time: 1310

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
5	6.55	11.32	6.85	1.65	-252	6.39	7.6	200
10	6.55	11.35	6.76	1.36	-279	5.16	5.7	200
15	6.56	11.48	6.81	1.24	-296	3.09	7.5	200
20	6.57	11.47	6.87	1.21	-315	2.89	5.5	200
25	6.57	11.56	6.79	1.2	-317	2.77	6.3	200
30	6.58	11.45	6.78	1.2	-321	2.7	6.2	200
35	6.59	11.34	6.8	1.2	-320	2.7	6.8	200
40	6.59	11.31	6.79	1.2	-325	2.68	6.6	200

End Purge Time: 1350

Water Sample

Time Collected: 1355

Total volume of purged water removed: 2.1 (gallons)

Physical appearance at start:

Color Clear
Odor Present
Sheen/Free Product Sheen

Physical appearance at start:

Color Clear
Odor Present
Sheen/Free Product None

Samples: (See list of parameters collected below)
MW-09D-09302021

Field Notes:
COC #: 480-166078-3639.1
No MS/MSD/Field Dup Collected

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
BTEX	40 mL VOA	3	no	HCL	-
1,4 Dioxane	250 mL Amber	2	no	none	-
PAHs	1 L Amber	2	no	none	-
PFAS	250 mL Plastic	2	no	none	-

Low Flow Ground Water Sampling Log

Date	09/30/21	Personnel	Z. Cornish, K. Moranz	Weather	Rain, high of 65
Site Name	Clark St	Evacuation Method	Peristaltic Pump	Well #	MW-08D
Site Location	Auburn NY	Sampling Method	Low Flow	Project #	452563

Well information:

Well Depth	65.1 ft.	*Measurements taken from:		
Water Depth	6.41 ft.		X	Top of Well Casing
Water Column	58.69 ft.			Top of Protective Casing
Depth to Intake	45 ft.			(Other, Specify)

Start Purge Time: 1445

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
5	6.31	13.46	6.98	1.28	-346	3.41	6.5	200
10	6.31	13.46	6.96	1.28	-353	2.99	5.4	200
15	6.31	13.45	6.94	1.28	-359	2.71	5.9	200
20	6.31	13.18	6.95	1.29	-360	2.68	6	200
25	6.31	13.09	6.93	1.29	-363	2.62	7.9	200
30	6.31	13.08	6.93	1.29	-365	2.6	8	200
35	6.31	13.04	6.97	1.29	-369	2.64	8.1	200
40	6.31	13.06	6.95	1.29	-369	2.6	8.2	200

End Purge Time: 1525

Water Sample

Time Collected: 1530

Total volume of purged water removed: 2.5 (gallons)

Physical appearance at start:

Color Clear
Odor Present
Sheen/Free Product Sheen

Physical appearance at start:

Color Clear
Odor None
Sheen/Free Product None

Samples: (See list of parameters collected below)
MW-08D-09302021

Field Notes:
COC #: 480-166078-3639.1
No MS/MSD/Field Dup Collected

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
BTEX	40 mL VOA	3	no	HCL	-
1,4 Dioxane	250 mL Amber	2	no	none	-
PAHs	1 L Amber	2	no	none	-
PFAS	250 mL Plastic	2	no	none	-

APPENDIX B-2 – NAPL REMOVAL LOGS

NAPL REMOVAL LOG

Date	Jan 28, 2022	Field Personnel	Z. Cornish	Weather	20°F, snowy
Site Name	Clark Street	Contractor/Driller	N/A	Well #	RW-03
Site Location	Auburn, NY	Evacuation Method	Peristaltic Pump	Date Installed:	2021

Well information:

DTW (initial)	3.38	ft.	Measurements taken from:	TOC	
DTW (final)	5.61	ft.	Well Diameter:	4	in.
DTP (initial)	24.31	ft.	Pump intake depth:	27.70	ft.
DTP (final)	NA	ft.	Initial NAPL thickness	3.39	ft.
DTB (in record)[2]	27.70	ft.	Initial NAPL volume[1]:	2.2	gal.

Start pump time:	10:05	Target Pump Duration	27.5	min
End pump time:	11:10	Actual Pump Duration	65	min
Total time:	65			

Duration (min)	Flow Rate (mL/min)	Depth to Product (ft)	Relative Percentage NAPL : Water	Appearance of Water/Other Comments
5	100	NM[3]	50:50	Brown liquid, blebs observed
10	300	NM[3]	100:0	Thick tar clogged tubing
15	300	NM[3]	100:0	Thick tar/black
20	300	NM[3]	100:0	DTW = 3.62
25	300	NM[3]	100:0	Thick tar/black
30	300	NM[3]	50:50	DTW = 3.93 ft btoc, brown liquid
35	300	NM[3]	50:50	Brown liquid, blebs observed
40	300	NM[3]	50:50	Brown liquid, blebs observed
45	300	NM[3]	50:50	DTW = 4.2 ft btoc
50	300	NM[3]	50:50	Brown liquid, blebs observed
55	300	NM[3]	50:50	Brown liquid, blebs observed
60	300	NM[3]	30:70	Clear liquid (water) with blebs
65	300	NM[3]	30:70	DTW = 5.61 ft btoc

Follow-up gauging information:

Measurement time	11:15	(HH:MM)
DTP (follow-up)	N/A	ft.

Notes/Comments:
(1) Inital NAPL volume = pi*r2*h; r= well radius (inches), h=NAPL thickness (inches) [calcd volume = cubic in, x .004329 for gallons]
(2) Pulled DTB from previous sampling record
(3) DTP not measured during pumping, unable to advance probe past tubing.

Purge liquid characteristics:

Total volume of NAPL removed: 2.5 gal

Physical appearance at start:		Physical appearance at stop:	
Color	Black	Color	Clear with blebs
Odor	Strong hydrocarbon	Odor	Strong hydrocarbon
Sheen/Free Product	Both	Sheen/Free Product	Both

Additional Field Notes: Gauged depth to product following purge, no product detected in sump

Allowed 5-gal purge bucket to sit for approximately 60 minutes, no separation of water and NAPL observed

Purge liquid began as thick black tar, by the end of the 65 minute pumping event purge liquid was predominantly water with tar blebs

NAPL clogged HDPE tubing <300 mL/min.

NAPL REMOVAL LOG

Date	Jan 28, 2022	Field Personnel	Z. Cornish	Weather	20°F, snowy
Site Name	Clark Street	Contractor/Driller	N/A	Well #	RW-04
Site Location	Auburn, NY	Evacuation Method	Peristaltic Pump	Date Installed:	2021

Well information:

DTW (initial)	5.60	ft.	Measurements taken from:	TOC	
DTW (final)	6.25	ft.	Well Diameter:	4	in.
DTP (initial)	49.65	ft.	Pump intake depth:	52.80	ft.
DTP (final)	NA	ft.	Initial NAPL thickness:	3.15	ft.
DTB (in record)[2]	52.80	ft.	Initial NAPL volume[1]:	2.1	gal.

Start pump time:	11:40	Target Pump Duration	34	min
End pump time:	12:45	Actual Pump Duration	65	min
Total time:	65			

Duration (min)	Flow Rate (mL/min)	Depth to Product (ft)	Relative Percentage NAPL : Water	Appearance of Water/Other Comments
5	200	NM[3]	50:50	Brown liquid with blebs
10	200	NM[3]	50:50	Brown liquid with blebs
15	200	NM[3]	50:50	Brown liquid with blebs
20	200	NM[3]	100:0	DTW = 5.00 ft, viscous black tar
25	200	NM[3]	100:0	Viscous black tar
30	200	NM[3]	100:0	DTW: 5.7', black tar
35	200	NM[3]	100:0	Viscous black tar
40	200	NM[3]	100:0	Viscous black tar
45	300	NM[3]	100:0	DTW = 5.93
50	300	NM[3]	100:0	Brown liquid, less viscous
55	300	NM[3]	50:50	Brown liquid with blebs
60	300	NM[3]	30:70	Clear liquid with blebs
65	300	NM[3]	30:70	DTW = 6.25 ft

Follow-up gauging information:

Measurement time	13:50	(HH:MM)
DTP (follow-up)	NA	ft.

Notes/Comments:
(1) Inital NAPL volume = pi*r2*h; r= well radius (inches), h=NAPL thickness (inches) [calcd volume = cubic in, x .004329 for gallons]
(2) Pulled DTB from previous sampling record
(3) DTP not measured during pumping, unable to advance probe past tubing.

Purge liquid characteristics:

Total volume of NAPL removed: 2.5 gallons

Physical appearance at start:		Physical appearance at stop:	
Color	Black	Color	Clear with blebs
Odor	Hydrocarbon	Odor	Hydrocarbon
Sheen/Free Product	Both	Sheen/Free Product	Both

Additional Field Notes: HDPE tubing clogged at flow rate < 200 mL/min
No separation of water and NAPL after allowing purge bucket to sit approximately one hour.
Gauged depth to product following purge, no product detected in sump

APPENDIX C – DATA USABILITY SUMMARY REPORT (2021)

DATA USABILITY SUMMARY REPORT

CLARK STREET
FORMER MANUFACTURED GAS PLANT SITE
AUBURN, NEW YORK

Prepared For:

NEW YORK STATE ELECTRIC AND GAS CORPORATION

Prepared By:

PARSONS

301 Plainfield Road, Suite 350
Syracuse, New York 13212

NOVEMBER 2021

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LIST OF ATTACHMENTS

SECTION 1 DATA USABILITY SUMMARY

Groundwater samples were collected from the Iberdrola Clark Street site in Auburn, New York on September 30, 2021. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan,
- Analytical methodologies,
- USEPA Region II Standard Operating Procedures (SOPs) for organic data review, and
- *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs*, dated January 2021.

The analytical laboratory for this project was Eurofins – Environment Testing America (Eurofins) in Buffalo, New York and Burlington, Vermont. This laboratory is certified to perform project analyses through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

1.1 Laboratory Data Packages

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 11 days for the project samples.

The data packages received from Eurofins were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized in Section 2.

1.2 Sampling and Chain-of-Custody

The samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at Eurofins within one day of sampling. All samples were received intact and in good condition at the laboratory.

1.3 Laboratory Analytical Methods

The groundwater samples that were collected from the site were analyzed for the volatiles benzene, toluene, ethylbenzene, and xylenes (BTEX); polynuclear aromatic hydrocarbons (PAHs); 1,4-dioxane; and per- and polyfluoroalkyl substances (PFAS). Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.3. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) are discussed for each analytical method in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,
"UJ" - estimated and not detected at the value given,
"J" - estimated at the value given,
"J+" - estimated biased high at the value given,
"J-" - estimated biased low at the value given,
"N" - presumptive evidence at the value given, and
"R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

The project samples were analyzed for BTEX using the USEPA SW-846 8260C analytical method. The reported results for these samples did not require qualification resulting from data validation. The reported BTEX analytical results were 100% (i.e., usable) for the project data. PARCCS requirements were met.

1.3.2 Semivolatile Organic Analysis

The project samples were analyzed for PAHs and 1,4-dioxane using the USEPA SW-846 8270D and 8270D SIM analytical methods, respectively. Certain reported results for these samples were qualified as not detected based upon blank contamination. The reported semivolatile analytical results were 100% complete (i.e., usable) for the project data. PARCCS requirements were met.

1.3.3 PFAS Organic Analysis

The project samples were analyzed for PFAS using the modified USEPA 537.1 analytical method. Certain reported results for these samples were qualified as estimated based upon sample result identifications; and as not detected based upon blank contamination. The reported analytical results for these samples were considered 100% complete (i.e., usable) for the project data. PARCCS requirements were met.

SECTION 2 DATA VALIDATION REPORT

Data review has been completed for data packages generated by Eurofins containing groundwater samples collected from the site. Analytical results from these samples were contained within sample delivery group (SDG) 480-190358-1. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic data review and *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs*, dated January 2021. This data validation and usability report is presented by analysis type.

2.1.1 BTEX

The following items were reviewed for compliancy in the BTEX analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and trip/equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD precision and accuracy as discussed below.

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked project samples with the exception of the high MSD accuracy result for benzene (125%R; QC limit 71-124%R) during the spiked analyses of sample MW-PAR-01-09302021. Validation qualification was not required for the affected parent sample.

Usability

All BTEX sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The BTEX data presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

2.1.2 PAHs and 1,4-Dioxane

The following items were reviewed for compliancy in the PAH and 1,4-dioxane analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank and equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries, MS/MSD precision and accuracy, blank contamination, and internal standard responses as discussed below.

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable and within QC limits with the exception of the high surrogate recoveries for nitrobenzene-d5 (QC limit 46-120%R) in samples MW-08D-09302021 (132%R) and MW-10D-09302021 (192%R). Validation qualification was not required for the affected samples.

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked project samples with the exception of the low MSD accuracy result for phenanthrene (62%R; QC limit 65-122%R) during the spiked analyses of sample MW-PAR-01-09302021. Validation qualification was not required for the affected parent sample.

Blank Contamination

The QC equipment blank associated with the project samples contained naphthalene below the reporting limit at a concentration of 1.7 µg/L. Therefore, naphthalene results less than validation action concentrations were considered not detected and qualified “U” for the affected samples.

Internal Standard Responses

All internal standard (IS) responses and retention times were within specified QC ranges based on associated calibration standards (i.e., sample’s area count within -50% to +100% and retention times within ±0.5 minutes of the standard) with the exception of the low IS response for naphthalene-d8 in sample MW-10D-09302021. Validation qualification was not required for the affected sample since associated results were reported from a secondary dilution analysis.

Usability

All PAH and 1,4-dioxane sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The PAH and 1,4-dioxane data presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

2.1.3 PFAS

The following items were reviewed for compliancy in the PFAS analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank and equipment blank contamination
- Initial and continuing calibrations
- Internal standard recoveries
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of blank contamination and sample result identification as discussed below.

Blank Contamination

The laboratory method blank associated with the project samples contained PFOS and N-EtFOSAA below the reporting limit at concentrations of 0.776 and 1.08 ng/L, respectively; and the QC equipment blank associated with the project samples contained PFOS below the reporting limit at a concentration of 0.73 ng/L. Therefore, results for these compounds less than validation action concentrations were considered not detected and qualified "U" for the affected samples.

Sample Result Identification

It was noted that the mass ion ratio exceeded the QC limit for PFNA and PFHxS in sample MW-09D-09302021. Therefore, results for these compounds were considered estimated and qualified "J" for the affected sample.

Usability

All PFAS results for the samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The PFAS data presented by Eurofins were 100% complete with all data considered usable and valid. The validated data are tabulated and presented in Attachment A.

ATTACHMENT A – VALIDATED LABORATORY DATA

		Location	MW-01B		MW-08D		MW-09D	
		Sample ID	MW-01B-0930201		MW-08D-09302021		MW-09D-09302021	
		Starting Depth	20.5		12.9		15	
		Ending Depth	30.5		65.6		35	
		Sample Type	N		N		N	
Method	CAS	Analyte	Units					
E537(M)	2355-31-9	2-(N-methyl perfluorooctanesulfonamido) acetic acid	ng/l	4.4 U	4.4 U		4.5 U	
E537(M)	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	ng/l	4.4 U	4.4 U		4.5 U	
E537(M)	375-73-5	Perfluorobutanesulfonic acid (PFBS)	ng/l	0.37 J	1.7 U		0.84 J	
E537(M)	375-22-4	Perfluorobutanoic Acid	ng/l	1.2 J	1.3 J		2.8 J	
E537(M)	335-77-3	Perfluorodecane Sulfonic Acid	ng/l	1.8 U	1.7 U		1.8 U	
E537(M)	335-76-2	Perfluorodecanoic acid (PFDA)	ng/l	1.8 U	1.7 U		1.8 U	
E537(M)	307-55-1	Perfluorododecanoic acid (PFDoA)	ng/l	1.8 U	1.7 U		1.8 U	
E537(M)	375-92-8	Perfluoroheptane Sulfonate (PFHPS)	ng/l	1.8 U	1.7 U		1.8 U	
E537(M)	375-85-9	Perfluoroheptanoic acid (PFHpA)	ng/l	1.8 U	0.23 J		0.79 J	
E537(M)	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ng/l	1.8 U	0.44 J		0.81 J	
E537(M)	307-24-4	Perfluorohexanoic acid (PFHxA)	ng/l	1.8 U	0.56 J		1.2 J	
E537(M)	375-95-1	Perfluorononanoic acid (PFNA)	ng/l	1.8 U	1.7 U		0.29 J	
E537(M)	754-91-6	Perfluorooctane Sulfonamide (FOSA)	ng/l	1.8 U	1.7 U		1.8 U	
E537(M)	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ng/l	1.8 U	1.7 U		1.9	
E537(M)	335-67-1	Perfluorooctanoic acid (PFOA)	ng/l	1.8 U	0.52 J		1.5 J	
E537(M)	2706-90-3	Perfluoropentanoic Acid (PFPeA)	ng/l	1.8 U	0.47 J		0.84 J	
E537(M)	376-06-7	Perfluorotetradecanoic acid (PFTA)	ng/l	1.8 U	1.7 U		1.8 U	
E537(M)	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ng/l	1.8 U	1.7 U		1.8 U	
E537(M)	2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ng/l	1.8 U	1.7 U		1.8 U	
E537(M)	39108-34-4	Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	ng/l	1.8 U	1.7 U		1.8 U	
E537(M)	27619-97-2	Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	ng/l	4.4 U	4.4 U		4.5 U	
SW8260C	71-43-2	Benzene	ug/L	1.0 U	320		130	
SW8260C	BTEX	Benzene, Toluene, Ethylbenzene, And Xylenes	ug/L	2.0 U	1400		3700	
SW8260C	100-41-4	Ethylbenzene	ug/L	1.0 U	800		1800	
SW8260C	179601-23-1	m,p-Xylene	ug/L	2.0 U	71		1200	
SW8260C	95-47-6	O-Xylene (1,2-Dimethylbenzene)	ug/L	1.0 U	190		520	
SW8260C	108-88-3	Toluene	ug/L	1.0 U	12		28	
SW8260C	1330-20-7	Xylenes	ug/L	2.0 U	260		1700	
SW8270D	83-32-9	Acenaphthene	ug/L	5.0 U	170 J		480 J	

			Location	MW-01B		MW-08D		MW-09D	
			Sample ID	MW-01B-0930201		MW-08D-09302021		MW-09D-09302021	
			Starting Depth	20.5		12.9		15	
			Ending Depth	30.5		65.6		35	
			Sample Type	N		N		N	
Method	CAS	Analyte	Units						
SW8270D	208-96-8	Acenaphthylene	ug/L	5.0	U	1.7	J	7.8	J
SW8270D	120-12-7	Anthracene	ug/L	5.0	U	3.5	J	23	J
SW8270D	56-55-3	Benzo(A)Anthracene	ug/L	5.0	U	5.0	U	6.9	J
SW8270D	50-32-8	Benzo(A)Pyrene	ug/L	5.0	U	5.0	U	6.2	J
SW8270D	205-99-2	Benzo(B)Fluoranthene	ug/L	5.0	U	5.0	U	4.6	J
SW8270D	191-24-2	Benzo(G,H,I)Perylene	ug/L	5.0	U	5.0	U	3.3	J
SW8270D	207-08-9	Benzo(K)Fluoranthene	ug/L	5.0	U	5.0	U	25	U
SW8270D	218-01-9	Chrysene	ug/L	5.0	U	5.0	U	5.0	J
SW8270D	53-70-3	Dibenz(A,H)Anthracene	ug/L	5.0	U	5.0	U	25	U
SW8270D	206-44-0	Fluoranthene	ug/L	5.0	U	1.7	J	26	
SW8270D	86-73-7	Fluorene	ug/L	5.0	U	33		89	
SW8270D	193-39-5	Indeno(1,2,3-C,D)Pyrene	ug/L	5.0	U	5.0	U	2.4	J
SW8270D	91-20-3	Naphthalene	ug/L	5.0	U	3800		12000	
SW8270D	85-01-8	Phenanthrene	ug/L	5.0	U	36		140	
SW8270D	129-00-0	Pyrene	ug/L	5.0	U	2.1	J	34	
SW8270DSIM	123-91-1	1,4-Dioxane (P-Dioxane)	ug/L	0.20	U	0.20	U	0.20	U

		Location	MW-10D		MW-PAR-01		MW-PAR-01	
		Sample ID	MW-10D-0930201		MW-PAR-01-09302021		BD-09302021	
		Starting Depth	9.5		7.11		7.11	
		Ending Depth	59.5		12.11		12.11	
		Sample Type	N		N		FD	
Method	CAS	Analyte	Units					
E537(M)	2355-31-9	2-(N-methyl perfluorooctanesulfonamido) acetic acid	ng/l	4.5 U	4.6 U		4.4 U	
E537(M)	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	ng/l	4.5 U	4.6 U		4.4 U	
E537(M)	375-73-5	Perfluorobutanesulfonic acid (PFBS)	ng/l	0.54 J	1.6 J		1.6 J	
E537(M)	375-22-4	Perfluorobutanoic Acid	ng/l	3.6 J	5.7		4.1 J	
E537(M)	335-77-3	Perfluorodecane Sulfonic Acid	ng/l	1.8 U	1.8 U		1.8 U	
E537(M)	335-76-2	Perfluorodecanoic acid (PFDA)	ng/l	1.8 U	1.8 U		1.8 U	
E537(M)	307-55-1	Perfluorododecanoic acid (PFDoA)	ng/l	1.8 U	1.8 U		1.8 U	
E537(M)	375-92-8	Perfluoroheptane Sulfonate (PFHPS)	ng/l	1.8 U	1.8 U		1.8 U	
E537(M)	375-85-9	Perfluoroheptanoic acid (PFHpA)	ng/l	0.67 J	1.6 J		0.72 J	
E537(M)	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ng/l	0.63 J	0.70 J		0.60 J	
E537(M)	307-24-4	Perfluorohexanoic acid (PFHxA)	ng/l	1.2 J	2.0		0.92 J	
E537(M)	375-95-1	Perfluorononanoic acid (PFNA)	ng/l	0.26 J	0.59 J		1.8 U	
E537(M)	754-91-6	Perfluorooctane Sulfonamide (FOSA)	ng/l	1.8 U	1.8 U		1.8 U	
E537(M)	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ng/l	1.8 U	2.1		2.2	
E537(M)	335-67-1	Perfluorooctanoic acid (PFOA)	ng/l	1.3 J	3.4		2.0	
E537(M)	2706-90-3	Perfluoropentanoic Acid (PFPeA)	ng/l	0.59 J	1.6 J		0.67 J	
E537(M)	376-06-7	Perfluorotetradecanoic acid (PFTA)	ng/l	1.8 U	1.8 U		1.8 U	
E537(M)	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ng/l	1.8 U	1.8 U		1.8 U	
E537(M)	2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ng/l	1.8 U	1.8 U		1.8 U	
E537(M)	39108-34-4	Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	ng/l	1.8 U	1.8 U		1.8 U	
E537(M)	27619-97-2	Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	ng/l	3.4 J	4.6 U		4.4 U	
SW8260C	71-43-2	Benzene	ug/L	700	29		30	
SW8260C	BTEX	Benzene, Toluene, Ethylbenzene, And Xylenes	ug/L	4100	33		35	
SW8260C	100-41-4	Ethylbenzene	ug/L	2600	2.9		3.0	
SW8260C	179601-23-1	m,p-Xylene	ug/L	200	2.0 U		0.69 J	
SW8260C	95-47-6	O-Xylene (1,2-Dimethylbenzene)	ug/L	580	0.85 J		0.92 J	
SW8260C	108-88-3	Toluene	ug/L	20 J	1.0 U		1.0 U	
SW8260C	1330-20-7	Xylenes	ug/L	780	0.85 J		1.6 J	
SW8270D	83-32-9	Acenaphthene	ug/L	260 J	250		260	

			Location	MW-10D		MW-PAR-01		MW-PAR-01	
			Sample ID	MW-10D-0930201		MW-PAR-01-09302021		BD-09302021	
			Starting Depth	9.5		7.11		7.11	
			Ending Depth	59.5		12.11		12.11	
			Sample Type	N		N		FD	
Method	CAS	Analyte	Units						
SW8270D	208-96-8	Acenaphthylene	ug/L	2.5	J	4.8	J	5.1	
SW8270D	120-12-7	Anthracene	ug/L	7.4		5.6		5.9	
SW8270D	56-55-3	Benzo(A)Anthracene	ug/L	5.0	U	5.0	U	5.0	U
SW8270D	50-32-8	Benzo(A)Pyrene	ug/L	5.0	U	5.0	U	5.0	U
SW8270D	205-99-2	Benzo(B)Fluoranthene	ug/L	5.0	U	5.0	U	5.0	U
SW8270D	191-24-2	Benzo(G,H,I)Perylene	ug/L	5.0	U	5.0	U	5.0	U
SW8270D	207-08-9	Benzo(K)Fluoranthene	ug/L	5.0	U	5.0	U	5.0	U
SW8270D	218-01-9	Chrysene	ug/L	5.0	U	5.0	U	5.0	U
SW8270D	53-70-3	Dibenz(A,H)Anthracene	ug/L	5.0	U	5.0	U	5.0	U
SW8270D	206-44-0	Fluoranthene	ug/L	2.9	J	8.0		8.3	
SW8270D	86-73-7	Fluorene	ug/L	52		67		69	
SW8270D	193-39-5	Indeno(1,2,3-C,D)Pyrene	ug/L	5.0	U	5.0	U	5.0	U
SW8270D	91-20-3	Naphthalene	ug/L	8300		3.1	J	4.3	J
SW8270D	85-01-8	Phenanthrene	ug/L	57		73		73	
SW8270D	129-00-0	Pyrene	ug/L	3.8	J	11		11	
SW8270DSIM	123-91-1	1,4-Dioxane (P-Dioxane)	ug/L	0.20	U	0.20	U	0.20	U

			Location	MW-PAR-02	
			Sample ID	MW-PAR-02-09302021	
			Starting Depth	4	
			Ending Depth	12.6	
			Sample Type	N	
Method	CAS	Analyte	Units		
E537(M)	2355-31-9	2-(N-methyl perfluorooctanesulfonamido) acetic acid	ng/l	4.6	U
E537(M)	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	ng/l	4.6	U
E537(M)	375-73-5	Perfluorobutanesulfonic acid (PFBS)	ng/l	1.4	J
E537(M)	375-22-4	Perfluorobutanoic Acid	ng/l	7.4	
E537(M)	335-77-3	Perfluorodecane Sulfonic Acid	ng/l	1.8	U
E537(M)	335-76-2	Perfluorodecanoic acid (PFDA)	ng/l	1.8	U
E537(M)	307-55-1	Perfluorododecanoic acid (PFDoA)	ng/l	1.8	U
E537(M)	375-92-8	Perfluoroheptane Sulfonate (PFHPS)	ng/l	1.8	U
E537(M)	375-85-9	Perfluoroheptanoic acid (PFHpA)	ng/l	0.97	J
E537(M)	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ng/l	0.72	J
E537(M)	307-24-4	Perfluorohexanoic acid (PFHxA)	ng/l	1.9	
E537(M)	375-95-1	Perfluorononanoic acid (PFNA)	ng/l	0.31	J
E537(M)	754-91-6	Perfluorooctane Sulfonamide (FOSA)	ng/l	1.8	U
E537(M)	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ng/l	1.8	
E537(M)	335-67-1	Perfluorooctanoic acid (PFOA)	ng/l	2.4	
E537(M)	2706-90-3	Perfluoropentanoic Acid (PFPeA)	ng/l	1.2	J
E537(M)	376-06-7	Perfluorotetradecanoic acid (PFTA)	ng/l	1.8	U
E537(M)	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ng/l	1.8	U
E537(M)	2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ng/l	1.8	U
E537(M)	39108-34-4	Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	ng/l	1.8	U
E537(M)	27619-97-2	Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	ng/l	3.9	J
SW8260C	71-43-2	Benzene	ug/L	170	
SW8260C	BTEX	Benzene, Toluene, Ethylbenzene, And Xylenes	ug/L	690	
SW8260C	100-41-4	Ethylbenzene	ug/L	440	
SW8260C	179601-23-1	m,p-Xylene	ug/L	20	
SW8260C	95-47-6	O-Xylene (1,2-Dimethylbenzene)	ug/L	59	
SW8260C	108-88-3	Toluene	ug/L	10	U
SW8260C	1330-20-7	Xylenes	ug/L	79	
SW8270D	83-32-9	Acenaphthene	ug/L	380	

			Location	MW-PAR-02	
			Sample ID	MW-PAR-02-09302021	
			Starting Depth	4	
			Ending Depth	12.6	
			Sample Type	N	
Method	CAS	Analyte	Units		
SW8270D	208-96-8	Acenaphthylene	ug/L	4.5	J
SW8270D	120-12-7	Anthracene	ug/L	11	
SW8270D	56-55-3	Benzo(A)Anthracene	ug/L	5.0	U
SW8270D	50-32-8	Benzo(A)Pyrene	ug/L	5.0	U
SW8270D	205-99-2	Benzo(B)Fluoranthene	ug/L	5.0	U
SW8270D	191-24-2	Benzo(G,H,I)Perylene	ug/L	5.0	U
SW8270D	207-08-9	Benzo(K)Fluoranthene	ug/L	5.0	U
SW8270D	218-01-9	Chrysene	ug/L	5.0	U
SW8270D	53-70-3	Dibenz(A,H)Anthracene	ug/L	5.0	U
SW8270D	206-44-0	Fluoranthene	ug/L	6.8	
SW8270D	86-73-7	Fluorene	ug/L	74	J
SW8270D	193-39-5	Indeno(1,2,3-C,D)Pyrene	ug/L	5.0	U
SW8270D	91-20-3	Naphthalene	ug/L	670	
SW8270D	85-01-8	Phenanthrene	ug/L	110	J
SW8270D	129-00-0	Pyrene	ug/L	7.7	
SW8270DSIM	123-91-1	1,4-Dioxane (P-Dioxane)	ug/L	0.20	U

APPENDIX D – EUROFINS TESTAMERICA LEVEL 2 LABORATORY ANALYTICAL REPORT

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-190358-1
Client Project/Site: Avangrid - Clark Street

For:
Parsons Corporation
301 Plainfield Road
Suite 350
Syracuse, New York 13212

Attn: Cathy Adamitis

Authorized for release by:
10/12/2021 6:18:27 PM

John Schove, Project Manager II
(716)504-9838
John.Schove@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190358-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

LCMS

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-190358-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-190358-1

Comments
No additional comments.

Receipt
The samples were received on 10/1/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.6º C, 2.9º C and 3.1º C.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-09D-09302021 (480-190358-3), MW-08D-09302021 (480-190358-4), MW-PAR-02-09302021 (480-190358-5) and MW-10D-0930201 (480-190358-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The following sample was diluted due to color, appearance, and viscosity: MW-09D-09302021 (480-190358-3). Elevated reporting limits (RL) are provided.

Method 8270D: Three surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-PAR-01-09302021 (480-190358-1[MSD]), MW-08D-09302021 (480-190358-4) and MW-10D-0930201 (480-190358-7). These results have been reported and qualified.

Method 8270D: Internal standard responses were outside of acceptance limits for the following sample: MW-10D-0930201 (480-190358-7). The sample shows evidence of matrix interference and was reanalyzed at a higher dilution with the recovery within control limits.

Method 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-PAR-01-09302021 (480-190358-1), MW-PAR-01-09302021 (480-190358-1[MS]), MW-PAR-01-09302021 (480-190358-1[MSD]), BD-09302021 (480-190358-2), MW-09D-09302021 (480-190358-3), MW-08D-09302021 (480-190358-4), MW-PAR-02-09302021 (480-190358-5) and MW-10D-0930201 (480-190358-7). Elevated reporting limits (RLs) are provided.

Method 8270D: The following samples required a dilution due to the abundance of target analytes: MW-09D-09302021 (480-190358-3), MW-08D-09302021 (480-190358-4), MW-PAR-02-09302021 (480-190358-5) and MW-10D-0930201 (480-190358-7). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS
Method 537 (modified): The method blank for preparation batch 200-172270 and analytical batch 200-172482 contained Perfluorooctanesulfonic acid (PFOS) and N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

Method 537 (modified): Method 537 (modified): The “I” qualifier associated with sample MW-09D-09302021 (480-190358-3) is applied because the transition mass ratio for the indicated analyte(s) was outside of the established ratio limits. The qualitative identification has some degree of uncertainty, however analyst judgment was used to positively identify the analyte(s).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Job ID: 480-190358-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190358-1

Client Sample ID: MW-PAR-01-09302021 — Lab Sample ID: 480-190358-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	29	F1	1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	2.9		1.0	0.74	ug/L	1		8260C	Total/NA
o-Xylene	0.85	J	1.0	0.76	ug/L	1		8260C	Total/NA
Xylenes, Total	0.85	J	2.0	0.66	ug/L	1		8260C	Total/NA
Total BTEX	33	F1	2.0	1.0	ug/L	1		8260C	Total/NA
Acenaphthene	210	E	5.0	0.41	ug/L	1		8270D	Total/NA
Acenaphthylene	4.8	J	5.0	0.38	ug/L	1		8270D	Total/NA
Anthracene	5.6		5.0	0.28	ug/L	1		8270D	Total/NA
Fluoranthene	8.0		5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	67	E	5.0	0.36	ug/L	1		8270D	Total/NA
Naphthalene	3.1	J	5.0	0.76	ug/L	1		8270D	Total/NA
Phenanthrene	69	E F1	5.0	0.44	ug/L	1		8270D	Total/NA
Pyrene	11		5.0	0.34	ug/L	1		8270D	Total/NA
Acenaphthene - DL	250		50	4.1	ug/L	10		8270D	Total/NA
Acenaphthylene - DL	4.3	J	50	3.8	ug/L	10		8270D	Total/NA
Anthracene - DL	5.3	J	50	2.8	ug/L	10		8270D	Total/NA
Fluoranthene - DL	7.5	J	50	4.0	ug/L	10		8270D	Total/NA
Fluorene - DL	67	F2	50	3.6	ug/L	10		8270D	Total/NA
Phenanthrene - DL	73		50	4.4	ug/L	10		8270D	Total/NA
Pyrene - DL	10	J	50	3.4	ug/L	10		8270D	Total/NA
Perfluorobutanoic acid (PFBA)	5.7		4.6	0.83	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.6	J	1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.0		1.8	0.42	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.6	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.4		1.8	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.59	J	1.8	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.6	J	1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.70	J	1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.1	B	1.8	0.27	ng/L	1		537 (modified)	Total/NA

Client Sample ID: BD-09302021 — Lab Sample ID: 480-190358-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	30		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	3.0		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.69	J	2.0	0.66	ug/L	1		8260C	Total/NA
o-Xylene	0.92	J	1.0	0.76	ug/L	1		8260C	Total/NA
Xylenes, Total	1.6	J	2.0	0.66	ug/L	1		8260C	Total/NA
Total BTEX	35		2.0	1.0	ug/L	1		8260C	Total/NA
Acenaphthene	230	E	5.0	0.41	ug/L	1		8270D	Total/NA
Acenaphthylene	5.1		5.0	0.38	ug/L	1		8270D	Total/NA
Anthracene	5.9		5.0	0.28	ug/L	1		8270D	Total/NA
Fluoranthene	8.3		5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	72	E	5.0	0.36	ug/L	1		8270D	Total/NA
Naphthalene	4.3	J	5.0	0.76	ug/L	1		8270D	Total/NA
Phenanthrene	72	E	5.0	0.44	ug/L	1		8270D	Total/NA
Pyrene	11		5.0	0.34	ug/L	1		8270D	Total/NA
Acenaphthene - DL	260		50	4.1	ug/L	10		8270D	Total/NA
Acenaphthylene - DL	4.4	J	50	3.8	ug/L	10		8270D	Total/NA
Anthracene - DL	5.8	J	50	2.8	ug/L	10		8270D	Total/NA
Fluoranthene - DL	7.6	J	50	4.0	ug/L	10		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BD-09302021 (Continued) — Lab Sample ID: 480-190358-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene - DL	69		50	3.6	ug/L	10		8270D	Total/NA
Phenanthrene - DL	73		50	4.4	ug/L	10		8270D	Total/NA
Pyrene - DL	10	J	50	3.4	ug/L	10		8270D	Total/NA
Perfluorobutanoic acid (PFBA)	4.1	J	4.4	0.79	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.67	J	1.8	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.92	J	1.8	0.40	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.72	J	1.8	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.0		1.8	0.37	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.6	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.60	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.2	B	1.8	0.26	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-09D-09302021 — Lab Sample ID: 480-190358-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	130		25	10	ug/L	25		8260C	Total/NA
Toluene	28		25	13	ug/L	25		8260C	Total/NA
Ethylbenzene	1800		25	19	ug/L	25		8260C	Total/NA
m-Xylene & p-Xylene	1200		50	17	ug/L	25		8260C	Total/NA
o-Xylene	520		25	19	ug/L	25		8260C	Total/NA
Xylenes, Total	1700		50	17	ug/L	25		8260C	Total/NA
Total BTEX	3700		50	25	ug/L	25		8260C	Total/NA
Acenaphthene	400	E	25	2.1	ug/L	5		8270D	Total/NA
Acenaphthylene	7.8	J	25	1.9	ug/L	5		8270D	Total/NA
Anthracene	23	J	25	1.4	ug/L	5		8270D	Total/NA
Benzo(a)anthracene	6.9	J	25	1.8	ug/L	5		8270D	Total/NA
Benzo(a)pyrene	6.2	J	25	2.4	ug/L	5		8270D	Total/NA
Benzo(b)fluoranthene	4.6	J	25	1.7	ug/L	5		8270D	Total/NA
Benzo(g,h,i) perylene	3.3	J	25	1.8	ug/L	5		8270D	Total/NA
Chrysene	5.0	J	25	1.7	ug/L	5		8270D	Total/NA
Fluoranthene	26		25	2.0	ug/L	5		8270D	Total/NA
Fluorene	89		25	1.8	ug/L	5		8270D	Total/NA
Ideno(1,2,3-cd)pyrene	2.4	J	25	2.4	ug/L	5		8270D	Total/NA
Naphthalene	2800	E	25	3.8	ug/L	5		8270D	Total/NA
Phenanthrene	140		25	2.2	ug/L	5		8270D	Total/NA
Pyrene	34		25	1.7	ug/L	5		8270D	Total/NA
Acenaphthene - DL	480	J	2500	210	ug/L	500		8270D	Total/NA
Naphthalene - DL	12000		2500	380	ug/L	500		8270D	Total/NA
Perfluorobutanoic acid (PFBA)	2.8	J	4.5	0.80	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.84	J	1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.2	J	1.8	0.41	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.79	J	1.8	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.5	J	1.8	0.38	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.29	J I	1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.84	J	1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.81	J I	1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.9	B	1.8	0.26	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-08D-09302021 — Lab Sample ID: 480-190358-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	320		10	4.1	ug/L	10		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-08D-09302021 (Continued)

Lab Sample ID: 480-190358-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	12		10	5.1	ug/L	10		8260C	Total/NA
Ethylbenzene	800		10	7.4	ug/L	10		8260C	Total/NA
m-Xylene & p-Xylene	71		20	6.6	ug/L	10		8260C	Total/NA
o-Xylene	190		10	7.6	ug/L	10		8260C	Total/NA
Xylenes, Total	260		20	6.6	ug/L	10		8260C	Total/NA
Total BTEX	1400		20	10	ug/L	10		8260C	Total/NA
Acenaphthene	160	E	5.0	0.41	ug/L	1		8270D	Total/NA
Acenaphthylene	1.7	J	5.0	0.38	ug/L	1		8270D	Total/NA
Anthracene	3.5	J	5.0	0.28	ug/L	1		8270D	Total/NA
Fluoranthene	1.7	J	5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	33		5.0	0.36	ug/L	1		8270D	Total/NA
Naphthalene	810	E	5.0	0.76	ug/L	1		8270D	Total/NA
Phenanthrene	36		5.0	0.44	ug/L	1		8270D	Total/NA
Pyrene	2.1	J	5.0	0.34	ug/L	1		8270D	Total/NA
Acenaphthene - DL	170	J	1000	82	ug/L	200		8270D	Total/NA
Naphthalene - DL	3800		1000	150	ug/L	200		8270D	Total/NA
Perfluorobutanoic acid (PFBA)	1.3	J	4.4	0.78	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.47	J	1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.56	J	1.7	0.40	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.23	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.52	J	1.7	0.37	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.44	J	1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.86	J B	1.7	0.25	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-PAR-02-09302021

Lab Sample ID: 480-190358-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	170		10	4.1	ug/L	10		8260C	Total/NA
Ethylbenzene	440		10	7.4	ug/L	10		8260C	Total/NA
m-Xylene & p-Xylene	20		20	6.6	ug/L	10		8260C	Total/NA
o-Xylene	59		10	7.6	ug/L	10		8260C	Total/NA
Xylenes, Total	79		20	6.6	ug/L	10		8260C	Total/NA
Total BTEX	690		20	10	ug/L	10		8260C	Total/NA
Acenaphthene	280	E	5.0	0.41	ug/L	1		8270D	Total/NA
Acenaphthylene	4.5	J	5.0	0.38	ug/L	1		8270D	Total/NA
Anthracene	11		5.0	0.28	ug/L	1		8270D	Total/NA
Fluoranthene	6.8		5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	75	E	5.0	0.36	ug/L	1		8270D	Total/NA
Naphthalene	300	E	5.0	0.76	ug/L	1		8270D	Total/NA
Phenanthrene	97	E	5.0	0.44	ug/L	1		8270D	Total/NA
Pyrene	7.7		5.0	0.34	ug/L	1		8270D	Total/NA
Acenaphthene - DL	380		250	21	ug/L	50		8270D	Total/NA
Fluorene - DL	74	J	250	18	ug/L	50		8270D	Total/NA
Naphthalene - DL	670		250	38	ug/L	50		8270D	Total/NA
Phenanthrene - DL	110	J	250	22	ug/L	50		8270D	Total/NA
Perfluorobutanoic acid (PFBA)	7.4		4.6	0.82	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.2	J	1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.9		1.8	0.41	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.97	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.4		1.8	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.31	J	1.8	0.26	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-PAR-02-09302021 (Continued) — Lab Sample ID: 480-190358-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	1.4	J	1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.72	J	1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.8	B	1.8	0.27	ng/L	1		537 (modified)	Total/NA
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	3.9	J	4.6	1.0	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-01B-0930201 — Lab Sample ID: 480-190358-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.6	J	5.0	0.76	ug/L	1		8270D	Total/NA
Perfluorobutanoic acid (PFBA)	1.2	J	4.4	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.37	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.1	J B	1.8	0.25	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-10D-0930201 — Lab Sample ID: 480-190358-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	700		40	16	ug/L	40		8260C	Total/NA
Toluene	20	J	40	20	ug/L	40		8260C	Total/NA
Ethylbenzene	2600		40	30	ug/L	40		8260C	Total/NA
m-Xylene & p-Xylene	200		80	26	ug/L	40		8260C	Total/NA
o-Xylene	580		40	30	ug/L	40		8260C	Total/NA
Xylenes, Total	780		80	26	ug/L	40		8260C	Total/NA
Total BTEX	4100		80	40	ug/L	40		8260C	Total/NA
Acenaphthene	220	E	5.0	0.41	ug/L	1		8270D	Total/NA
Acenaphthylene	2.5	J	5.0	0.38	ug/L	1		8270D	Total/NA
Anthracene	7.4		5.0	0.28	ug/L	1		8270D	Total/NA
Fluoranthene	2.9	J	5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	52		5.0	0.36	ug/L	1		8270D	Total/NA
Naphthalene	1500	E *3	5.0	0.76	ug/L	1		8270D	Total/NA
Phenanthrene	57		5.0	0.44	ug/L	1		8270D	Total/NA
Pyrene	3.8	J	5.0	0.34	ug/L	1		8270D	Total/NA
Acenaphthene - DL	260	J	1000	82	ug/L	200		8270D	Total/NA
Naphthalene - DL	8300		1000	150	ug/L	200		8270D	Total/NA
Perfluorobutanoic acid (PFBA)	3.6	J	4.5	0.80	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.59	J	1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.2	J	1.8	0.41	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.67	J	1.8	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.3	J	1.8	0.38	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.26	J	1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.54	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.63	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.2	J B	1.8	0.26	ng/L	1		537 (modified)	Total/NA
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	3.4	J	4.5	0.98	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EB-09302021 — Lab Sample ID: 480-190358-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.7	J	5.4	0.83	ug/L	1		8270D	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.73	J B	1.8	0.26	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190358-1

Client Sample ID: TB1-09302021 — Lab Sample ID: 480-190358-9

No Detections.

Client Sample ID: TB2-09302021 — Lab Sample ID: 480-190358-10

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-PAR-01-09302021

Date Collected: 09/30/21 11:45
Date Received: 10/01/21 10:00

Lab Sample ID: 480-190358-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**29**	**F1**	1.0	0.41	ug/L			10/07/21 05:46	1
Toluene	1.0	U	1.0	0.51	ug/L			10/07/21 05:46	1
Ethylbenzene	**2.9**		1.0	0.74	ug/L			10/07/21 05:46	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			10/07/21 05:46	1
o-Xylene	**0.85**	**J**	1.0	0.76	ug/L			10/07/21 05:46	1
Xylenes, Total	**0.85**	**J**	2.0	0.66	ug/L			10/07/21 05:46	1
Total BTEX	**33**	**F1**	2.0	1.0	ug/L			10/07/21 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/07/21 05:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*10/07/21 05:46*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*10/07/21 05:46*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*10/07/21 05:46*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		10/04/21 15:04	10/05/21 13:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*46*		*15 - 110*	*10/04/21 15:04*	*10/05/21 13:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**210**	**E**	5.0	0.41	ug/L		10/04/21 09:17	10/07/21 18:44	1
Acenaphthylene	**4.8**	**J**	5.0	0.38	ug/L		10/04/21 09:17	10/07/21 18:44	1
Anthracene	**5.6**		5.0	0.28	ug/L		10/04/21 09:17	10/07/21 18:44	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		10/04/21 09:17	10/07/21 18:44	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		10/04/21 09:17	10/07/21 18:44	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		10/04/21 09:17	10/07/21 18:44	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		10/04/21 09:17	10/07/21 18:44	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		10/04/21 09:17	10/07/21 18:44	1
Chrysene	5.0	U	5.0	0.33	ug/L		10/04/21 09:17	10/07/21 18:44	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		10/04/21 09:17	10/07/21 18:44	1
Fluoranthene	**8.0**		5.0	0.40	ug/L		10/04/21 09:17	10/07/21 18:44	1
Fluorene	**67**	**E**	5.0	0.36	ug/L		10/04/21 09:17	10/07/21 18:44	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		10/04/21 09:17	10/07/21 18:44	1
Naphthalene	**3.1**	**J**	5.0	0.76	ug/L		10/04/21 09:17	10/07/21 18:44	1
Phenanthrene	**69**	**E F1**	5.0	0.44	ug/L		10/04/21 09:17	10/07/21 18:44	1
Pyrene	**11**		5.0	0.34	ug/L		10/04/21 09:17	10/07/21 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*48 - 120*	*10/04/21 09:17*	*10/07/21 18:44*	*1*
Nitrobenzene-d5 (Surr)	*91*		*46 - 120*	*10/04/21 09:17*	*10/07/21 18:44*	*1*
p-Terphenyl-d14 (Surr)	*81*		*60 - 148*	*10/04/21 09:17*	*10/07/21 18:44*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**250**		50	4.1	ug/L		10/04/21 09:17	10/08/21 17:21	10
Acenaphthylene	**4.3**	**J**	50	3.8	ug/L		10/04/21 09:17	10/08/21 17:21	10
Anthracene	**5.3**	**J**	50	2.8	ug/L		10/04/21 09:17	10/08/21 17:21	10
Benzo(a)anthracene	50	U	50	3.6	ug/L		10/04/21 09:17	10/08/21 17:21	10

Client Sample ID: MW-PAR-01-09302021
Date Collected: 09/30/21 11:45
Date Received: 10/01/21 10:00

Lab Sample ID: 480-190358-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene	50	U	50	4.7	ug/L		10/04/21 09:17	10/08/21 17:21	10
Benzo(b)fluoranthene	50	U	50	3.4	ug/L		10/04/21 09:17	10/08/21 17:21	10
Benzo(g,h,i) perylene	50	U	50	3.5	ug/L		10/04/21 09:17	10/08/21 17:21	10
Benzo(k)fluoranthene	50	U	50	7.3	ug/L		10/04/21 09:17	10/08/21 17:21	10
Chrysene	50	U	50	3.3	ug/L		10/04/21 09:17	10/08/21 17:21	10
Dibenz(a,h)anthracene	50	U	50	4.2	ug/L		10/04/21 09:17	10/08/21 17:21	10
Fluoranthene	**7.5**	**J**	50	4.0	ug/L		10/04/21 09:17	10/08/21 17:21	10
Fluorene	**67**	**F2**	50	3.6	ug/L		10/04/21 09:17	10/08/21 17:21	10
Ideno(1,2,3-cd)pyrene	50	U	50	4.7	ug/L		10/04/21 09:17	10/08/21 17:21	10
Naphthalene	50	U	50	7.6	ug/L		10/04/21 09:17	10/08/21 17:21	10
Phenanthrene	**73**		50	4.4	ug/L		10/04/21 09:17	10/08/21 17:21	10
Pyrene	**10**	**J**	50	3.4	ug/L		10/04/21 09:17	10/08/21 17:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*48 - 120*	*10/04/21 09:17*	*10/08/21 17:21*	*10*
Nitrobenzene-d5 (Surr)	*92*		*46 - 120*	*10/04/21 09:17*	*10/08/21 17:21*	*10*
p-Terphenyl-d14 (Surr)	*79*		*60 - 148*	*10/04/21 09:17*	*10/08/21 17:21*	*10*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.7**		4.6	0.83	ng/L		10/06/21 10:31	10/11/21 19:02	1
Perfluoropentanoic acid (PFPeA)	**1.6**	**J**	1.8	0.44	ng/L		10/06/21 10:31	10/11/21 19:02	1
Perfluorohexanoic acid (PFHxA)	**2.0**		1.8	0.42	ng/L		10/06/21 10:31	10/11/21 19:02	1
Perfluoroheptanoic acid (PFHpA)	**1.6**	**J**	1.8	0.22	ng/L		10/06/21 10:31	10/11/21 19:02	1
Perfluorooctanoic acid (PFOA)	**3.4**		1.8	0.39	ng/L		10/06/21 10:31	10/11/21 19:02	1
Perfluorononanoic acid (PFNA)	**0.59**	**J**	1.8	0.26	ng/L		10/06/21 10:31	10/11/21 19:02	1
Perfluorodecanoic acid (PFDA)	1.8	U	1.8	0.28	ng/L		10/06/21 10:31	10/11/21 19:02	1
Perfluoroundecanoic acid (PFUnA)	1.8	U	1.8	0.32	ng/L		10/06/21 10:31	10/11/21 19:02	1
Perfluorododecanoic acid (PFDoA)	1.8	U	1.8	0.36	ng/L		10/06/21 10:31	10/11/21 19:02	1
Perfluorotridecanoic acid (PFTriA)	1.8	U	1.8	0.40	ng/L		10/06/21 10:31	10/11/21 19:02	1
Perfluorotetradecanoic acid (PFTeA)	1.8	U	1.8	0.58	ng/L		10/06/21 10:31	10/11/21 19:02	1
Perfluorobutanesulfonic acid (PFBS)	**1.6**	**J**	1.8	0.23	ng/L		10/06/21 10:31	10/11/21 19:02	1
Perfluorohexanesulfonic acid (PFHxS)	**0.70**	**J**	1.8	0.28	ng/L		10/06/21 10:31	10/11/21 19:02	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.8	U	1.8	0.22	ng/L		10/06/21 10:31	10/11/21 19:02	1
Perfluorooctanesulfonic acid (PFOS)	**2.1**	**B**	1.8	0.27	ng/L		10/06/21 10:31	10/11/21 19:02	1
Perfluorodecanesulfonic acid (PFDS)	1.8	U	1.8	0.28	ng/L		10/06/21 10:31	10/11/21 19:02	1
Perfluorooctanesulfonamide (PFOSA)	1.8	U	1.8	0.53	ng/L		10/06/21 10:31	10/11/21 19:02	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.6	U	4.6	0.83	ng/L		10/06/21 10:31	10/11/21 19:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.6	U	4.6	0.69	ng/L		10/06/21 10:31	10/11/21 19:02	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.6	U	4.6	1.0	ng/L		10/06/21 10:31	10/11/21 19:02	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.8	U	1.8	0.36	ng/L		10/06/21 10:31	10/11/21 19:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*110*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*
13C4 PFHpA	*103*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*

Client Sample ID: MW-PAR-01-09302021

Lab Sample ID: 480-190358-1

Date Collected: 09/30/21 11:45

Matrix: Water

Date Received: 10/01/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFOA	*100*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*
13C4 PFOS	*110*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*
13C5 PFNA	*103*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*
13C4 PFBA	*71*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*
13C2 PFHxA	*92*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*
13C2 PFDA	*100*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*
13C2 PFUnA	*100*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*
13C2 PFDoA	*98*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*
13C8 FOSA	*98*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*
13C5 PFPeA	*92*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*
13C2 PFTeDA	*99*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*
d3-NMeFOSAA	*104*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*
d5-NEtFOSAA	*96*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*
M2-6:2 FTS	*144*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*
M2-8:2 FTS	*134*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*
13C3 PFBS	*106*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:02*	*1*

Client Sample ID: BD-09302021

Lab Sample ID: 480-190358-2

Date Collected: 09/30/21 12:01

Matrix: Water

Date Received: 10/01/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**30**		1.0	0.41	ug/L			10/07/21 06:09	1
Toluene	1.0	U	1.0	0.51	ug/L			10/07/21 06:09	1
Ethylbenzene	**3.0**		1.0	0.74	ug/L			10/07/21 06:09	1
m-Xylene & p-Xylene	**0.69**	**J**	2.0	0.66	ug/L			10/07/21 06:09	1
o-Xylene	**0.92**	**J**	1.0	0.76	ug/L			10/07/21 06:09	1
Xylenes, Total	**1.6**	**J**	2.0	0.66	ug/L			10/07/21 06:09	1
Total BTEX	**35**		2.0	1.0	ug/L			10/07/21 06:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/07/21 06:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*10/07/21 06:09*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*10/07/21 06:09*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*10/07/21 06:09*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		10/04/21 15:04	10/05/21 14:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*39*		*15 - 110*	*10/04/21 15:04*	*10/05/21 14:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**230**	**E**	5.0	0.41	ug/L		10/04/21 09:17	10/07/21 19:11	1
Acenaphthylene	**5.1**		5.0	0.38	ug/L		10/04/21 09:17	10/07/21 19:11	1
Anthracene	**5.9**		5.0	0.28	ug/L		10/04/21 09:17	10/07/21 19:11	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		10/04/21 09:17	10/07/21 19:11	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		10/04/21 09:17	10/07/21 19:11	1

Client Sample ID: BD-09302021

Date Collected: 09/30/21 12:01
Date Received: 10/01/21 10:00

Lab Sample ID: 480-190358-2

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		10/04/21 09:17	10/07/21 19:11	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		10/04/21 09:17	10/07/21 19:11	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		10/04/21 09:17	10/07/21 19:11	1
Chrysene	5.0	U	5.0	0.33	ug/L		10/04/21 09:17	10/07/21 19:11	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		10/04/21 09:17	10/07/21 19:11	1
Fluoranthene	**8.3**		5.0	0.40	ug/L		10/04/21 09:17	10/07/21 19:11	1
Fluorene	**72**	**E**	5.0	0.36	ug/L		10/04/21 09:17	10/07/21 19:11	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		10/04/21 09:17	10/07/21 19:11	1
Naphthalene	**4.3**	**J**	5.0	0.76	ug/L		10/04/21 09:17	10/07/21 19:11	1
Phenanthrene	**72**	**E**	5.0	0.44	ug/L		10/04/21 09:17	10/07/21 19:11	1
Pyrene	**11**		5.0	0.34	ug/L		10/04/21 09:17	10/07/21 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*108*		*48 - 120*	*10/04/21 09:17*	*10/07/21 19:11*	*1*
Nitrobenzene-d5 (Surr)	*99*		*46 - 120*	*10/04/21 09:17*	*10/07/21 19:11*	*1*
p-Terphenyl-d14 (Surr)	*83*		*60 - 148*	*10/04/21 09:17*	*10/07/21 19:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**260**		50	4.1	ug/L		10/04/21 09:17	10/08/21 17:49	10
Acenaphthylene	**4.4**	**J**	50	3.8	ug/L		10/04/21 09:17	10/08/21 17:49	10
Anthracene	**5.8**	**J**	50	2.8	ug/L		10/04/21 09:17	10/08/21 17:49	10
Benzo(a)anthracene	50	U	50	3.6	ug/L		10/04/21 09:17	10/08/21 17:49	10
Benzo(a)pyrene	50	U	50	4.7	ug/L		10/04/21 09:17	10/08/21 17:49	10
Benzo(b)fluoranthene	50	U	50	3.4	ug/L		10/04/21 09:17	10/08/21 17:49	10
Benzo(g,h,i) perylene	50	U	50	3.5	ug/L		10/04/21 09:17	10/08/21 17:49	10
Benzo(k)fluoranthene	50	U	50	7.3	ug/L		10/04/21 09:17	10/08/21 17:49	10
Chrysene	50	U	50	3.3	ug/L		10/04/21 09:17	10/08/21 17:49	10
Dibenz(a,h)anthracene	50	U	50	4.2	ug/L		10/04/21 09:17	10/08/21 17:49	10
Fluoranthene	**7.6**	**J**	50	4.0	ug/L		10/04/21 09:17	10/08/21 17:49	10
Fluorene	**69**		50	3.6	ug/L		10/04/21 09:17	10/08/21 17:49	10
Ideno(1,2,3-cd)pyrene	50	U	50	4.7	ug/L		10/04/21 09:17	10/08/21 17:49	10
Naphthalene	50	U	50	7.6	ug/L		10/04/21 09:17	10/08/21 17:49	10
Phenanthrene	**73**		50	4.4	ug/L		10/04/21 09:17	10/08/21 17:49	10
Pyrene	**10**	**J**	50	3.4	ug/L		10/04/21 09:17	10/08/21 17:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*48 - 120*	*10/04/21 09:17*	*10/08/21 17:49*	*10*
Nitrobenzene-d5 (Surr)	*96*		*46 - 120*	*10/04/21 09:17*	*10/08/21 17:49*	*10*
p-Terphenyl-d14 (Surr)	*77*		*60 - 148*	*10/04/21 09:17*	*10/08/21 17:49*	*10*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**4.1**	**J**	4.4	0.79	ng/L		10/06/21 10:31	10/11/21 19:27	1
Perfluoropentanoic acid (PFPeA)	**0.67**	**J**	1.8	0.42	ng/L		10/06/21 10:31	10/11/21 19:27	1
Perfluorohexanoic acid (PFHxA)	**0.92**	**J**	1.8	0.40	ng/L		10/06/21 10:31	10/11/21 19:27	1
Perfluoroheptanoic acid (PFHpA)	**0.72**	**J**	1.8	0.21	ng/L		10/06/21 10:31	10/11/21 19:27	1
Perfluorooctanoic acid (PFOA)	**2.0**		1.8	0.37	ng/L		10/06/21 10:31	10/11/21 19:27	1
Perfluorononanoic acid (PFNA)	1.8	U	1.8	0.25	ng/L		10/06/21 10:31	10/11/21 19:27	1
Perfluorodecanoic acid (PFDA)	1.8	U	1.8	0.27	ng/L		10/06/21 10:31	10/11/21 19:27	1

Client Sample ID: BD-09302021

Date Collected: 09/30/21 12:01
Date Received: 10/01/21 10:00

Lab Sample ID: 480-190358-2
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid (PFUnA)	1.8	U	1.8	0.30	ng/L		10/06/21 10:31	10/11/21 19:27	1
Perfluorododecanoic acid (PFDoA)	1.8	U	1.8	0.34	ng/L		10/06/21 10:31	10/11/21 19:27	1
Perfluorotridecanoic acid (PFTriA)	1.8	U	1.8	0.38	ng/L		10/06/21 10:31	10/11/21 19:27	1
Perfluorotetradecanoic acid (PFTeA)	1.8	U	1.8	0.56	ng/L		10/06/21 10:31	10/11/21 19:27	1
Perfluorobutanesulfonic acid (PFBS)	**1.6**	**J**	1.8	0.22	ng/L		10/06/21 10:31	10/11/21 19:27	1
Perfluorohexanesulfonic acid (PFHxS)	**0.60**	**J**	1.8	0.27	ng/L		10/06/21 10:31	10/11/21 19:27	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.8	U	1.8	0.21	ng/L		10/06/21 10:31	10/11/21 19:27	1
Perfluorooctanesulfonic acid (PFOS)	**2.2**	**B**	1.8	0.26	ng/L		10/06/21 10:31	10/11/21 19:27	1
Perfluorodecanesulfonic acid (PFDS)	1.8	U	1.8	0.27	ng/L		10/06/21 10:31	10/11/21 19:27	1
Perfluorooctanesulfonamide (PFOSA)	1.8	U	1.8	0.51	ng/L		10/06/21 10:31	10/11/21 19:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.4	U	4.4	0.80	ng/L		10/06/21 10:31	10/11/21 19:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.4	U	4.4	0.65	ng/L		10/06/21 10:31	10/11/21 19:27	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.4	U	4.4	0.97	ng/L		10/06/21 10:31	10/11/21 19:27	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.8	U	1.8	0.34	ng/L		10/06/21 10:31	10/11/21 19:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*110*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
13C4 PFHpA	*106*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
13C4 PFOA	*98*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
13C4 PFOS	*106*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
13C5 PFNA	*100*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
13C4 PFBA	*77*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
13C2 PFHxA	*95*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
13C2 PFDA	*101*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
13C2 PFUnA	*94*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
13C2 PFDoA	*94*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
13C8 FOSA	*100*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
13C5 PFPeA	*96*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
13C2 PFTeDA	*93*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
d3-NMeFOSAA	*99*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
d5-NEtFOSAA	*86*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
M2-6:2 FTS	*127*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
M2-8:2 FTS	*131*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*
13C3 PFBS	*108*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:27*	*1*

Client Sample ID: MW-09D-09302021

Date Collected: 09/30/21 13:55
Date Received: 10/01/21 10:00

Lab Sample ID: 480-190358-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**130**		25	10	ug/L			10/07/21 06:33	25
Toluene	**28**		25	13	ug/L			10/07/21 06:33	25
Ethylbenzene	**1800**		25	19	ug/L			10/07/21 06:33	25
m-Xylene & p-Xylene	**1200**		50	17	ug/L			10/07/21 06:33	25

Client Sample ID: MW-09D-09302021

Date Collected: 09/30/21 13:55
Date Received: 10/01/21 10:00

Lab Sample ID: 480-190358-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	520		25	19	ug/L			10/07/21 06:33	25
Xylenes, Total	1700		50	17	ug/L			10/07/21 06:33	25
Total BTEX	3700		50	25	ug/L			10/07/21 06:33	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/07/21 06:33*	*25*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*10/07/21 06:33*	*25*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*10/07/21 06:33*	*25*
Dibromofluoromethane (Surr)	*92*		*75 - 123*		*10/07/21 06:33*	*25*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		10/04/21 15:04	10/05/21 14:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*40*		*15 - 110*	*10/04/21 15:04*	*10/05/21 14:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	400	E	25	2.1	ug/L		10/04/21 09:17	10/07/21 19:38	5
Acenaphthylene	7.8	J	25	1.9	ug/L		10/04/21 09:17	10/07/21 19:38	5
Anthracene	23	J	25	1.4	ug/L		10/04/21 09:17	10/07/21 19:38	5
Benzo(a)anthracene	6.9	J	25	1.8	ug/L		10/04/21 09:17	10/07/21 19:38	5
Benzo(a)pyrene	6.2	J	25	2.4	ug/L		10/04/21 09:17	10/07/21 19:38	5
Benzo(b)fluoranthene	4.6	J	25	1.7	ug/L		10/04/21 09:17	10/07/21 19:38	5
Benzo(g,h,i) perylene	3.3	J	25	1.8	ug/L		10/04/21 09:17	10/07/21 19:38	5
Benzo(k)fluoranthene	25	U	25	3.7	ug/L		10/04/21 09:17	10/07/21 19:38	5
Chrysene	5.0	J	25	1.7	ug/L		10/04/21 09:17	10/07/21 19:38	5
Dibenz(a,h)anthracene	25	U	25	2.1	ug/L		10/04/21 09:17	10/07/21 19:38	5
Fluoranthene	26		25	2.0	ug/L		10/04/21 09:17	10/07/21 19:38	5
Fluorene	89		25	1.8	ug/L		10/04/21 09:17	10/07/21 19:38	5
Ideno(1,2,3-cd)pyrene	2.4	J	25	2.4	ug/L		10/04/21 09:17	10/07/21 19:38	5
Naphthalene	2800	E	25	3.8	ug/L		10/04/21 09:17	10/07/21 19:38	5
Phenanthrene	140		25	2.2	ug/L		10/04/21 09:17	10/07/21 19:38	5
Pyrene	34		25	1.7	ug/L		10/04/21 09:17	10/07/21 19:38	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*48 - 120*	*10/04/21 09:17*	*10/07/21 19:38*	*5*
Nitrobenzene-d5 (Surr)	*89*		*46 - 120*	*10/04/21 09:17*	*10/07/21 19:38*	*5*
p-Terphenyl-d14 (Surr)	*70*		*60 - 148*	*10/04/21 09:17*	*10/07/21 19:38*	*5*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	J	2500	210	ug/L		10/04/21 09:17	10/08/21 18:16	500
Acenaphthylene	2500	U	2500	190	ug/L		10/04/21 09:17	10/08/21 18:16	500
Anthracene	2500	U	2500	140	ug/L		10/04/21 09:17	10/08/21 18:16	500
Benzo(a)anthracene	2500	U	2500	180	ug/L		10/04/21 09:17	10/08/21 18:16	500
Benzo(a)pyrene	2500	U	2500	240	ug/L		10/04/21 09:17	10/08/21 18:16	500
Benzo(b)fluoranthene	2500	U	2500	170	ug/L		10/04/21 09:17	10/08/21 18:16	500
Benzo(g,h,i) perylene	2500	U	2500	180	ug/L		10/04/21 09:17	10/08/21 18:16	500
Benzo(k)fluoranthene	2500	U	2500	370	ug/L		10/04/21 09:17	10/08/21 18:16	500

Client Sample ID: MW-09D-09302021

Date Collected: 09/30/21 13:55
Date Received: 10/01/21 10:00

Lab Sample ID: 480-190358-3

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	2500	U	2500	170	ug/L		10/04/21 09:17	10/08/21 18:16	500
Dibenz(a,h)anthracene	2500	U	2500	210	ug/L		10/04/21 09:17	10/08/21 18:16	500
Fluoranthene	2500	U	2500	200	ug/L		10/04/21 09:17	10/08/21 18:16	500
Fluorene	2500	U	2500	180	ug/L		10/04/21 09:17	10/08/21 18:16	500
Ideno(1,2,3-cd)pyrene	2500	U	2500	240	ug/L		10/04/21 09:17	10/08/21 18:16	500
Naphthalene	**12000**		2500	380	ug/L		10/04/21 09:17	10/08/21 18:16	500
Phenanthrene	2500	U	2500	220	ug/L		10/04/21 09:17	10/08/21 18:16	500
Pyrene	2500	U	2500	170	ug/L		10/04/21 09:17	10/08/21 18:16	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*105*		*48 - 120*	*10/04/21 09:17*	*10/08/21 18:16*	*500*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*46 - 120*	*10/04/21 09:17*	*10/08/21 18:16*	*500*
p-Terphenyl-d14 (Surr)	*74*		*60 - 148*	*10/04/21 09:17*	*10/08/21 18:16*	*500*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**2.8**	**J**	4.5	0.80	ng/L		10/06/21 10:31	10/11/21 19:35	1
Perfluoropentanoic acid (PFPeA)	**0.84**	**J**	1.8	0.43	ng/L		10/06/21 10:31	10/11/21 19:35	1
Perfluorohexanoic acid (PFHxA)	**1.2**	**J**	1.8	0.41	ng/L		10/06/21 10:31	10/11/21 19:35	1
Perfluoroheptanoic acid (PFHpA)	**0.79**	**J**	1.8	0.21	ng/L		10/06/21 10:31	10/11/21 19:35	1
Perfluorooctanoic acid (PFOA)	**1.5**	**J**	1.8	0.38	ng/L		10/06/21 10:31	10/11/21 19:35	1
Perfluorononanoic acid (PFNA)	**0.29**	**J I**	1.8	0.25	ng/L		10/06/21 10:31	10/11/21 19:35	1
Perfluorodecanoic acid (PFDA)	1.8	U	1.8	0.27	ng/L		10/06/21 10:31	10/11/21 19:35	1
Perfluoroundecanoic acid (PFUnA)	1.8	U	1.8	0.31	ng/L		10/06/21 10:31	10/11/21 19:35	1
Perfluorododecanoic acid (PFDoA)	1.8	U	1.8	0.35	ng/L		10/06/21 10:31	10/11/21 19:35	1
Perfluorotridecanoic acid (PFTriA)	1.8	U	1.8	0.39	ng/L		10/06/21 10:31	10/11/21 19:35	1
Perfluorotetradecanoic acid (PFTeA)	1.8	U	1.8	0.57	ng/L		10/06/21 10:31	10/11/21 19:35	1
Perfluorobutanesulfonic acid (PFBS)	**0.84**	**J**	1.8	0.23	ng/L		10/06/21 10:31	10/11/21 19:35	1
Perfluorohexanesulfonic acid (PFHxS)	**0.81**	**J I**	1.8	0.27	ng/L		10/06/21 10:31	10/11/21 19:35	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.8	U	1.8	0.21	ng/L		10/06/21 10:31	10/11/21 19:35	1
Perfluorooctanesulfonic acid (PFOS)	**1.9**	**B**	1.8	0.26	ng/L		10/06/21 10:31	10/11/21 19:35	1
Perfluorodecanesulfonic acid (PFDS)	1.8	U	1.8	0.28	ng/L		10/06/21 10:31	10/11/21 19:35	1
Perfluorooctanesulfonamide (PFOSA)	1.8	U	1.8	0.52	ng/L		10/06/21 10:31	10/11/21 19:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.5	U	4.5	0.81	ng/L		10/06/21 10:31	10/11/21 19:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.5	U	4.5	0.67	ng/L		10/06/21 10:31	10/11/21 19:35	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.5	U	4.5	0.99	ng/L		10/06/21 10:31	10/11/21 19:35	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.8	U	1.8	0.35	ng/L		10/06/21 10:31	10/11/21 19:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*107*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*
13C4 PFHpA	*99*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*
13C4 PFOA	*101*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*
13C4 PFOS	*104*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*
13C5 PFNA	*99*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*
13C4 PFBA	*84*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*

Client Sample ID: MW-09D-09302021

Lab Sample ID: 480-190358-3

Date Collected: 09/30/21 13:55

Matrix: Water

Date Received: 10/01/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*95*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*
13C2 PFDA	*97*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*
13C2 PFUnA	*96*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*
13C2 PFDoA	*99*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*
13C8 FOSA	*100*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*
13C5 PFPeA	*97*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*
13C2 PFTeDA	*95*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*
d3-NMeFOSAA	*94*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*
d5-NEtFOSAA	*89*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*
M2-6:2 FTS	*136*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*
M2-8:2 FTS	*119*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*
13C3 PFBS	*111*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:35*	*1*

Client Sample ID: MW-08D-09302021

Lab Sample ID: 480-190358-4

Date Collected: 09/30/21 15:30

Matrix: Water

Date Received: 10/01/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**320**		10	4.1	ug/L			10/07/21 08:39	10
Toluene	**12**		10	5.1	ug/L			10/07/21 08:39	10
Ethylbenzene	**800**		10	7.4	ug/L			10/07/21 08:39	10
m-Xylene & p-Xylene	**71**		20	6.6	ug/L			10/07/21 08:39	10
o-Xylene	**190**		10	7.6	ug/L			10/07/21 08:39	10
Xylenes, Total	**260**		20	6.6	ug/L			10/07/21 08:39	10
Total BTEX	**1400**		20	10	ug/L			10/07/21 08:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/07/21 08:39*	*10*
1,2-Dichloroethane-d4 (Surr)	*89*		*77 - 120*		*10/07/21 08:39*	*10*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*10/07/21 08:39*	*10*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*10/07/21 08:39*	*10*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		10/04/21 15:04	10/05/21 14:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*15 - 110*	*10/04/21 15:04*	*10/05/21 14:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**160**	**E**	5.0	0.41	ug/L		10/04/21 09:17	10/07/21 20:05	1
Acenaphthylene	**1.7**	**J**	5.0	0.38	ug/L		10/04/21 09:17	10/07/21 20:05	1
Anthracene	**3.5**	**J**	5.0	0.28	ug/L		10/04/21 09:17	10/07/21 20:05	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		10/04/21 09:17	10/07/21 20:05	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		10/04/21 09:17	10/07/21 20:05	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		10/04/21 09:17	10/07/21 20:05	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		10/04/21 09:17	10/07/21 20:05	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		10/04/21 09:17	10/07/21 20:05	1
Chrysene	5.0	U	5.0	0.33	ug/L		10/04/21 09:17	10/07/21 20:05	1

Client Sample ID: MW-08D-09302021

Date Collected: 09/30/21 15:30
Date Received: 10/01/21 10:00

Lab Sample ID: 480-190358-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		10/04/21 09:17	10/07/21 20:05	1
Fluoranthene	**1.7**	**J**	5.0	0.40	ug/L		10/04/21 09:17	10/07/21 20:05	1
Fluorene	**33**		5.0	0.36	ug/L		10/04/21 09:17	10/07/21 20:05	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		10/04/21 09:17	10/07/21 20:05	1
Naphthalene	**810**	**E**	5.0	0.76	ug/L		10/04/21 09:17	10/07/21 20:05	1
Phenanthrene	**36**		5.0	0.44	ug/L		10/04/21 09:17	10/07/21 20:05	1
Pyrene	**2.1**	**J**	5.0	0.34	ug/L		10/04/21 09:17	10/07/21 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*48 - 120*	*10/04/21 09:17*	*10/07/21 20:05*	*1*
Nitrobenzene-d5 (Surr)	*132*	*S1+*	*46 - 120*	*10/04/21 09:17*	*10/07/21 20:05*	*1*
p-Terphenyl-d14 (Surr)	*99*		*60 - 148*	*10/04/21 09:17*	*10/07/21 20:05*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**170**	**J**	1000	82	ug/L		10/04/21 09:17	10/08/21 18:43	200
Acenaphthylene	1000	U	1000	76	ug/L		10/04/21 09:17	10/08/21 18:43	200
Anthracene	1000	U	1000	56	ug/L		10/04/21 09:17	10/08/21 18:43	200
Benzo(a)anthracene	1000	U	1000	72	ug/L		10/04/21 09:17	10/08/21 18:43	200
Benzo(a)pyrene	1000	U	1000	94	ug/L		10/04/21 09:17	10/08/21 18:43	200
Benzo(b)fluoranthene	1000	U	1000	68	ug/L		10/04/21 09:17	10/08/21 18:43	200
Benzo(g,h,i) perylene	1000	U	1000	70	ug/L		10/04/21 09:17	10/08/21 18:43	200
Benzo(k)fluoranthene	1000	U	1000	150	ug/L		10/04/21 09:17	10/08/21 18:43	200
Chrysene	1000	U	1000	66	ug/L		10/04/21 09:17	10/08/21 18:43	200
Dibenz(a,h)anthracene	1000	U	1000	84	ug/L		10/04/21 09:17	10/08/21 18:43	200
Fluoranthene	1000	U	1000	80	ug/L		10/04/21 09:17	10/08/21 18:43	200
Fluorene	1000	U	1000	72	ug/L		10/04/21 09:17	10/08/21 18:43	200
Ideno(1,2,3-cd)pyrene	1000	U	1000	94	ug/L		10/04/21 09:17	10/08/21 18:43	200
Naphthalene	**3800**		1000	150	ug/L		10/04/21 09:17	10/08/21 18:43	200
Phenanthrene	1000	U	1000	88	ug/L		10/04/21 09:17	10/08/21 18:43	200
Pyrene	1000	U	1000	68	ug/L		10/04/21 09:17	10/08/21 18:43	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*107*		*48 - 120*	*10/04/21 09:17*	*10/08/21 18:43*	*200*
Nitrobenzene-d5 (Surr)	*243*	*S1+*	*46 - 120*	*10/04/21 09:17*	*10/08/21 18:43*	*200*
p-Terphenyl-d14 (Surr)	*82*		*60 - 148*	*10/04/21 09:17*	*10/08/21 18:43*	*200*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**1.3**	**J**	4.4	0.78	ng/L		10/06/21 10:31	10/11/21 19:43	1
Perfluoropentanoic acid (PFPeA)	**0.47**	**J**	1.7	0.41	ng/L		10/06/21 10:31	10/11/21 19:43	1
Perfluorohexanoic acid (PFHxA)	**0.56**	**J**	1.7	0.40	ng/L		10/06/21 10:31	10/11/21 19:43	1
Perfluoroheptanoic acid (PFHpA)	**0.23**	**J**	1.7	0.21	ng/L		10/06/21 10:31	10/11/21 19:43	1
Perfluorooctanoic acid (PFOA)	**0.52**	**J**	1.7	0.37	ng/L		10/06/21 10:31	10/11/21 19:43	1
Perfluorononanoic acid (PFNA)	1.7	U	1.7	0.25	ng/L		10/06/21 10:31	10/11/21 19:43	1
Perfluorodecanoic acid (PFDA)	1.7	U	1.7	0.27	ng/L		10/06/21 10:31	10/11/21 19:43	1
Perfluoroundecanoic acid (PFUnA)	1.7	U	1.7	0.30	ng/L		10/06/21 10:31	10/11/21 19:43	1
Perfluorododecanoic acid (PFDoA)	1.7	U	1.7	0.34	ng/L		10/06/21 10:31	10/11/21 19:43	1
Perfluorotridecanoic acid (PFTriA)	1.7	U	1.7	0.38	ng/L		10/06/21 10:31	10/11/21 19:43	1
Perfluorotetradecanoic acid (PFTeA)	1.7	U	1.7	0.55	ng/L		10/06/21 10:31	10/11/21 19:43	1

Client Sample ID: MW-08D-09302021

Lab Sample ID: 480-190358-4

Date Collected: 09/30/21 15:30

Matrix: Water

Date Received: 10/01/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	1.7	U	1.7	0.22	ng/L		10/06/21 10:31	10/11/21 19:43	1
Perfluorohexanesulfonic acid (PFHxS)	**0.44**	**J**	1.7	0.26	ng/L		10/06/21 10:31	10/11/21 19:43	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.7	U	1.7	0.20	ng/L		10/06/21 10:31	10/11/21 19:43	1
Perfluorooctanesulfonic acid (PFOS)	**0.86**	**J B**	1.7	0.25	ng/L		10/06/21 10:31	10/11/21 19:43	1
Perfluorodecanesulfonic acid (PFDS)	1.7	U	1.7	0.27	ng/L		10/06/21 10:31	10/11/21 19:43	1
Perfluorooctanesulfonamide (PFOSA)	1.7	U	1.7	0.50	ng/L		10/06/21 10:31	10/11/21 19:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.4	U	4.4	0.79	ng/L		10/06/21 10:31	10/11/21 19:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.4	U	4.4	0.65	ng/L		10/06/21 10:31	10/11/21 19:43	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.4	U	4.4	0.96	ng/L		10/06/21 10:31	10/11/21 19:43	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.7	U	1.7	0.34	ng/L		10/06/21 10:31	10/11/21 19:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*106*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
13C4 PFHpA	*105*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
13C4 PFOA	*100*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
13C4 PFOS	*107*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
13C5 PFNA	*100*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
13C4 PFBA	*90*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
13C2 PFHxA	*99*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
13C2 PFDA	*98*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
13C2 PFUnA	*87*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
13C2 PFDoA	*89*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
13C8 FOSA	*98*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
13C5 PFPeA	*98*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
13C2 PFTeDA	*88*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
d3-NMeFOSAA	*90*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
d5-NEtFOSAA	*88*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
M2-6:2 FTS	*133*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
M2-8:2 FTS	*130*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*
13C3 PFBS	*109*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:43*	*1*

Client Sample ID: MW-PAR-02-09302021

Lab Sample ID: 480-190358-5

Date Collected: 09/30/21 11:50

Matrix: Water

Date Received: 10/01/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**170**		10	4.1	ug/L			10/07/21 09:02	10
Toluene	10	U	10	5.1	ug/L			10/07/21 09:02	10
Ethylbenzene	**440**		10	7.4	ug/L			10/07/21 09:02	10
m-Xylene & p-Xylene	**20**		20	6.6	ug/L			10/07/21 09:02	10
o-Xylene	**59**		10	7.6	ug/L			10/07/21 09:02	10
Xylenes, Total	**79**		20	6.6	ug/L			10/07/21 09:02	10
Total BTEX	**690**		20	10	ug/L			10/07/21 09:02	10

Client Sample ID: MW-PAR-02-09302021

Date Collected: 09/30/21 11:50
Date Received: 10/01/21 10:00

Lab Sample ID: 480-190358-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/07/21 09:02*	*10*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*10/07/21 09:02*	*10*
4-Bromofluorobenzene (Surr)	*113*		*73 - 120*		*10/07/21 09:02*	*10*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*10/07/21 09:02*	*10*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		10/04/21 15:04	10/05/21 15:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*34*		*15 - 110*	*10/04/21 15:04*	*10/05/21 15:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**280**	**E**	5.0	0.41	ug/L		10/04/21 09:17	10/07/21 20:32	1
Acenaphthylene	**4.5**	**J**	5.0	0.38	ug/L		10/04/21 09:17	10/07/21 20:32	1
Anthracene	**11**		5.0	0.28	ug/L		10/04/21 09:17	10/07/21 20:32	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		10/04/21 09:17	10/07/21 20:32	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		10/04/21 09:17	10/07/21 20:32	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		10/04/21 09:17	10/07/21 20:32	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		10/04/21 09:17	10/07/21 20:32	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		10/04/21 09:17	10/07/21 20:32	1
Chrysene	5.0	U	5.0	0.33	ug/L		10/04/21 09:17	10/07/21 20:32	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		10/04/21 09:17	10/07/21 20:32	1
Fluoranthene	**6.8**		5.0	0.40	ug/L		10/04/21 09:17	10/07/21 20:32	1
Fluorene	**75**	**E**	5.0	0.36	ug/L		10/04/21 09:17	10/07/21 20:32	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		10/04/21 09:17	10/07/21 20:32	1
Naphthalene	**300**	**E**	5.0	0.76	ug/L		10/04/21 09:17	10/07/21 20:32	1
Phenanthrene	**97**	**E**	5.0	0.44	ug/L		10/04/21 09:17	10/07/21 20:32	1
Pyrene	**7.7**		5.0	0.34	ug/L		10/04/21 09:17	10/07/21 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*48 - 120*	*10/04/21 09:17*	*10/07/21 20:32*	*1*
Nitrobenzene-d5 (Surr)	*82*		*46 - 120*	*10/04/21 09:17*	*10/07/21 20:32*	*1*
p-Terphenyl-d14 (Surr)	*74*		*60 - 148*	*10/04/21 09:17*	*10/07/21 20:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**380**		250	21	ug/L		10/04/21 09:17	10/08/21 19:10	50
Acenaphthylene	250	U	250	19	ug/L		10/04/21 09:17	10/08/21 19:10	50
Anthracene	250	U	250	14	ug/L		10/04/21 09:17	10/08/21 19:10	50
Benzo(a)anthracene	250	U	250	18	ug/L		10/04/21 09:17	10/08/21 19:10	50
Benzo(a)pyrene	250	U	250	24	ug/L		10/04/21 09:17	10/08/21 19:10	50
Benzo(b)fluoranthene	250	U	250	17	ug/L		10/04/21 09:17	10/08/21 19:10	50
Benzo(g,h,i) perylene	250	U	250	18	ug/L		10/04/21 09:17	10/08/21 19:10	50
Benzo(k)fluoranthene	250	U	250	37	ug/L		10/04/21 09:17	10/08/21 19:10	50
Chrysene	250	U	250	17	ug/L		10/04/21 09:17	10/08/21 19:10	50
Dibenz(a,h)anthracene	250	U	250	21	ug/L		10/04/21 09:17	10/08/21 19:10	50
Fluoranthene	250	U	250	20	ug/L		10/04/21 09:17	10/08/21 19:10	50
Fluorene	**74**	**J**	250	18	ug/L		10/04/21 09:17	10/08/21 19:10	50
Ideno(1,2,3-cd)pyrene	250	U	250	24	ug/L		10/04/21 09:17	10/08/21 19:10	50
Naphthalene	**670**		250	38	ug/L		10/04/21 09:17	10/08/21 19:10	50

Client Sample ID: MW-PAR-02-09302021

Date Collected: 09/30/21 11:50
Date Received: 10/01/21 10:00

Lab Sample ID: 480-190358-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	**110**	**J**	250	22	ug/L		10/04/21 09:17	10/08/21 19:10	50
Pyrene	250	U	250	17	ug/L		10/04/21 09:17	10/08/21 19:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*48 - 120*	*10/04/21 09:17*	*10/08/21 19:10*	*50*
Nitrobenzene-d5 (Surr)	*110*		*46 - 120*	*10/04/21 09:17*	*10/08/21 19:10*	*50*
p-Terphenyl-d14 (Surr)	*65*		*60 - 148*	*10/04/21 09:17*	*10/08/21 19:10*	*50*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**7.4**		4.6	0.82	ng/L		10/06/21 10:31	10/11/21 19:52	1
Perfluoropentanoic acid (PFPeA)	**1.2**	**J**	1.8	0.43	ng/L		10/06/21 10:31	10/11/21 19:52	1
Perfluorohexanoic acid (PFHxA)	**1.9**		1.8	0.41	ng/L		10/06/21 10:31	10/11/21 19:52	1
Perfluoroheptanoic acid (PFHpA)	**0.97**	**J**	1.8	0.22	ng/L		10/06/21 10:31	10/11/21 19:52	1
Perfluorooctanoic acid (PFOA)	**2.4**		1.8	0.39	ng/L		10/06/21 10:31	10/11/21 19:52	1
Perfluorononanoic acid (PFNA)	**0.31**	**J**	1.8	0.26	ng/L		10/06/21 10:31	10/11/21 19:52	1
Perfluorodecanoic acid (PFDA)	1.8	U	1.8	0.28	ng/L		10/06/21 10:31	10/11/21 19:52	1
Perfluoroundecanoic acid (PFUnA)	1.8	U	1.8	0.32	ng/L		10/06/21 10:31	10/11/21 19:52	1
Perfluorododecanoic acid (PFDoA)	1.8	U	1.8	0.35	ng/L		10/06/21 10:31	10/11/21 19:52	1
Perfluorotridecanoic acid (PFTriA)	1.8	U	1.8	0.40	ng/L		10/06/21 10:31	10/11/21 19:52	1
Perfluorotetradecanoic acid (PFTeA)	1.8	U	1.8	0.58	ng/L		10/06/21 10:31	10/11/21 19:52	1
Perfluorobutanesulfonic acid (PFBS)	**1.4**	**J**	1.8	0.23	ng/L		10/06/21 10:31	10/11/21 19:52	1
Perfluorohexanesulfonic acid (PFHxS)	**0.72**	**J**	1.8	0.28	ng/L		10/06/21 10:31	10/11/21 19:52	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.8	U	1.8	0.21	ng/L		10/06/21 10:31	10/11/21 19:52	1
Perfluorooctanesulfonic acid (PFOS)	**1.8**	**B**	1.8	0.27	ng/L		10/06/21 10:31	10/11/21 19:52	1
Perfluorodecanesulfonic acid (PFDS)	1.8	U	1.8	0.28	ng/L		10/06/21 10:31	10/11/21 19:52	1
Perfluorooctanesulfonamide (PFOSA)	1.8	U	1.8	0.53	ng/L		10/06/21 10:31	10/11/21 19:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.6	U	4.6	0.83	ng/L		10/06/21 10:31	10/11/21 19:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.6	U	4.6	0.68	ng/L		10/06/21 10:31	10/11/21 19:52	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	**3.9**	**J**	4.6	1.0	ng/L		10/06/21 10:31	10/11/21 19:52	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.8	U	1.8	0.36	ng/L		10/06/21 10:31	10/11/21 19:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*110*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:52*	*1*
13C4 PFHpA	*105*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:52*	*1*
13C4 PFOA	*103*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:52*	*1*
13C4 PFOS	*111*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:52*	*1*
13C5 PFNA	*103*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:52*	*1*
13C4 PFBA	*74*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:52*	*1*
13C2 PFHxA	*95*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:52*	*1*
13C2 PFDA	*102*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:52*	*1*
13C2 PFUnA	*93*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:52*	*1*
13C2 PFDoA	*92*		*50 - 150*	*10/06/21 10:31*	*10/11/21 19:52*	*1*
13C8 FOSA	*103*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:52*	*1*
13C5 PFPeA	*92*		*25 - 150*	*10/06/21 10:31*	*10/11/21 19:52*	*1*

Client Sample ID: MW-PAR-02-09302021

Lab Sample ID: 480-190358-5

Date Collected: 09/30/21 11:50
Matrix: Water
Date Received: 10/01/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	94		50 - 150	10/06/21 10:31	10/11/21 19:52	1
d3-NMeFOSAA	100		50 - 150	10/06/21 10:31	10/11/21 19:52	1
d5-NEtFOSAA	100		50 - 150	10/06/21 10:31	10/11/21 19:52	1
M2-6:2 FTS	139		25 - 150	10/06/21 10:31	10/11/21 19:52	1
M2-8:2 FTS	130		25 - 150	10/06/21 10:31	10/11/21 19:52	1
13C3 PFBS	106		50 - 150	10/06/21 10:31	10/11/21 19:52	1

Client Sample ID: MW-01B-0930201

Lab Sample ID: 480-190358-6

Date Collected: 09/30/21 14:00
Matrix: Water
Date Received: 10/01/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			10/07/21 09:25	1
Toluene	1.0	U	1.0	0.51	ug/L			10/07/21 09:25	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/07/21 09:25	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			10/07/21 09:25	1
o-Xylene	1.0	U	1.0	0.76	ug/L			10/07/21 09:25	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/07/21 09:25	1
Total BTEX	2.0	U	2.0	1.0	ug/L			10/07/21 09:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		10/07/21 09:25	1
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		10/07/21 09:25	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/07/21 09:25	1
Dibromofluoromethane (Surr)	92		75 - 123		10/07/21 09:25	1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		10/04/21 15:04	10/05/21 15:42	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	26		15 - 110	10/04/21 15:04	10/05/21 15:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.0	U	5.0	0.41	ug/L		10/04/21 09:17	10/07/21 20:59	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		10/04/21 09:17	10/07/21 20:59	1
Anthracene	5.0	U	5.0	0.28	ug/L		10/04/21 09:17	10/07/21 20:59	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		10/04/21 09:17	10/07/21 20:59	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		10/04/21 09:17	10/07/21 20:59	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		10/04/21 09:17	10/07/21 20:59	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		10/04/21 09:17	10/07/21 20:59	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		10/04/21 09:17	10/07/21 20:59	1
Chrysene	5.0	U	5.0	0.33	ug/L		10/04/21 09:17	10/07/21 20:59	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		10/04/21 09:17	10/07/21 20:59	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		10/04/21 09:17	10/07/21 20:59	1
Fluorene	5.0	U	5.0	0.36	ug/L		10/04/21 09:17	10/07/21 20:59	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		10/04/21 09:17	10/07/21 20:59	1
Naphthalene	**1.6**	**J**	5.0	0.76	ug/L		10/04/21 09:17	10/07/21 20:59	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		10/04/21 09:17	10/07/21 20:59	1

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190358-1

Client Sample ID: MW-01B-0930201

Date Collected: 09/30/21 14:00
Date Received: 10/01/21 10:00

Lab Sample ID: 480-190358-6

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	5.0	U	5.0	0.34	ug/L		10/04/21 09:17	10/07/21 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*103*		*48 - 120*	*10/04/21 09:17*	*10/07/21 20:59*	*1*
Nitrobenzene-d5 (Surr)	*93*		*46 - 120*	*10/04/21 09:17*	*10/07/21 20:59*	*1*
p-Terphenyl-d14 (Surr)	*81*		*60 - 148*	*10/04/21 09:17*	*10/07/21 20:59*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**1.2**	**J**	4.4	0.78	ng/L		10/06/21 10:31	10/11/21 20:00	1
Perfluoropentanoic acid (PFPeA)	1.8	U	1.8	0.42	ng/L		10/06/21 10:31	10/11/21 20:00	1
Perfluorohexanoic acid (PFHxA)	1.8	U	1.8	0.40	ng/L		10/06/21 10:31	10/11/21 20:00	1
Perfluoroheptanoic acid (PFHpA)	1.8	U	1.8	0.21	ng/L		10/06/21 10:31	10/11/21 20:00	1
Perfluorooctanoic acid (PFOA)	1.8	U	1.8	0.37	ng/L		10/06/21 10:31	10/11/21 20:00	1
Perfluorononanoic acid (PFNA)	1.8	U	1.8	0.25	ng/L		10/06/21 10:31	10/11/21 20:00	1
Perfluorodecanoic acid (PFDA)	1.8	U	1.8	0.27	ng/L		10/06/21 10:31	10/11/21 20:00	1
Perfluoroundecanoic acid (PFUnA)	1.8	U	1.8	0.30	ng/L		10/06/21 10:31	10/11/21 20:00	1
Perfluorododecanoic acid (PFDoA)	1.8	U	1.8	0.34	ng/L		10/06/21 10:31	10/11/21 20:00	1
Perfluorotridecanoic acid (PFTriA)	1.8	U	1.8	0.38	ng/L		10/06/21 10:31	10/11/21 20:00	1
Perfluorotetradecanoic acid (PFTeA)	1.8	U	1.8	0.55	ng/L		10/06/21 10:31	10/11/21 20:00	1
Perfluorobutanesulfonic acid (PFBS)	**0.37**	**J**	1.8	0.22	ng/L		10/06/21 10:31	10/11/21 20:00	1
Perfluorohexanesulfonic acid (PFHxS)	1.8	U	1.8	0.26	ng/L		10/06/21 10:31	10/11/21 20:00	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.8	U	1.8	0.21	ng/L		10/06/21 10:31	10/11/21 20:00	1
Perfluorooctanesulfonic acid (PFOS)	**1.1**	**J B**	1.8	0.25	ng/L		10/06/21 10:31	10/11/21 20:00	1
Perfluorodecanesulfonic acid (PFDS)	1.8	U	1.8	0.27	ng/L		10/06/21 10:31	10/11/21 20:00	1
Perfluorooctanesulfonamide (PFOSA)	1.8	U	1.8	0.51	ng/L		10/06/21 10:31	10/11/21 20:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.4	U	4.4	0.79	ng/L		10/06/21 10:31	10/11/21 20:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.4	U	4.4	0.65	ng/L		10/06/21 10:31	10/11/21 20:00	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.4	U	4.4	0.96	ng/L		10/06/21 10:31	10/11/21 20:00	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.8	U	1.8	0.34	ng/L		10/06/21 10:31	10/11/21 20:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*107*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*
13C4 PFHpA	*105*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*
13C4 PFOA	*105*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*
13C4 PFOS	*104*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*
13C5 PFNA	*98*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*
13C4 PFBA	*90*		*25 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*
13C2 PFHxA	*95*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*
13C2 PFDA	*98*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*
13C2 PFUnA	*91*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*
13C2 PFDoA	*99*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*
13C8 FOSA	*98*		*25 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*
13C5 PFPeA	*98*		*25 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*
13C2 PFTeDA	*90*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*

Client Sample ID: MW-01B-0930201

Lab Sample ID: 480-190358-6

Date Collected: 09/30/21 14:00

Matrix: Water

Date Received: 10/01/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d3-NMeFOSAA	*93*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*
d5-NEtFOSAA	*88*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*
M2-6:2 FTS	*143*		*25 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*
M2-8:2 FTS	*122*		*25 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*
13C3 PFBS	*111*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:00*	*1*

Client Sample ID: MW-10D-0930201

Lab Sample ID: 480-190358-7

Date Collected: 09/30/21 16:35

Matrix: Water

Date Received: 10/01/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**700**		40	16	ug/L			10/07/21 09:48	40
Toluene	**20**	**J**	40	20	ug/L			10/07/21 09:48	40
Ethylbenzene	**2600**		40	30	ug/L			10/07/21 09:48	40
m-Xylene & p-Xylene	**200**		80	26	ug/L			10/07/21 09:48	40
o-Xylene	**580**		40	30	ug/L			10/07/21 09:48	40
Xylenes, Total	**780**		80	26	ug/L			10/07/21 09:48	40
Total BTEX	**4100**		80	40	ug/L			10/07/21 09:48	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/07/21 09:48*	*40*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*10/07/21 09:48*	*40*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*10/07/21 09:48*	*40*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*10/07/21 09:48*	*40*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		10/04/21 15:04	10/05/21 16:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*40*		*15 - 110*	*10/04/21 15:04*	*10/05/21 16:05*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**220**	**E**	5.0	0.41	ug/L		10/04/21 09:17	10/07/21 21:26	1
Acenaphthylene	**2.5**	**J**	5.0	0.38	ug/L		10/04/21 09:17	10/07/21 21:26	1
Anthracene	**7.4**		5.0	0.28	ug/L		10/04/21 09:17	10/07/21 21:26	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		10/04/21 09:17	10/07/21 21:26	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		10/04/21 09:17	10/07/21 21:26	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		10/04/21 09:17	10/07/21 21:26	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		10/04/21 09:17	10/07/21 21:26	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		10/04/21 09:17	10/07/21 21:26	1
Chrysene	5.0	U	5.0	0.33	ug/L		10/04/21 09:17	10/07/21 21:26	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		10/04/21 09:17	10/07/21 21:26	1
Fluoranthene	**2.9**	**J**	5.0	0.40	ug/L		10/04/21 09:17	10/07/21 21:26	1
Fluorene	**52**		5.0	0.36	ug/L		10/04/21 09:17	10/07/21 21:26	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		10/04/21 09:17	10/07/21 21:26	1
Naphthalene	**1500**	**E *3**	5.0	0.76	ug/L		10/04/21 09:17	10/07/21 21:26	1
Phenanthrene	**57**		5.0	0.44	ug/L		10/04/21 09:17	10/07/21 21:26	1
Pyrene	**3.8**	**J**	5.0	0.34	ug/L		10/04/21 09:17	10/07/21 21:26	1

Client Sample ID: MW-10D-0930201

Date Collected: 09/30/21 16:35
Date Received: 10/01/21 10:00

Lab Sample ID: 480-190358-7

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*103*		*48 - 120*	*10/04/21 09:17*	*10/07/21 21:26*	*1*
Nitrobenzene-d5 (Surr)	*192*	*S1+ *3*	*46 - 120*	*10/04/21 09:17*	*10/07/21 21:26*	*1*
p-Terphenyl-d14 (Surr)	*93*		*60 - 148*	*10/04/21 09:17*	*10/07/21 21:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**260**	**J**	1000	82	ug/L		10/04/21 09:17	10/08/21 19:37	200
Acenaphthylene	1000	U	1000	76	ug/L		10/04/21 09:17	10/08/21 19:37	200
Anthracene	1000	U	1000	56	ug/L		10/04/21 09:17	10/08/21 19:37	200
Benzo(a)anthracene	1000	U	1000	72	ug/L		10/04/21 09:17	10/08/21 19:37	200
Benzo(a)pyrene	1000	U	1000	94	ug/L		10/04/21 09:17	10/08/21 19:37	200
Benzo(b)fluoranthene	1000	U	1000	68	ug/L		10/04/21 09:17	10/08/21 19:37	200
Benzo(g,h,i) perylene	1000	U	1000	70	ug/L		10/04/21 09:17	10/08/21 19:37	200
Benzo(k)fluoranthene	1000	U	1000	150	ug/L		10/04/21 09:17	10/08/21 19:37	200
Chrysene	1000	U	1000	66	ug/L		10/04/21 09:17	10/08/21 19:37	200
Dibenz(a,h)anthracene	1000	U	1000	84	ug/L		10/04/21 09:17	10/08/21 19:37	200
Fluoranthene	1000	U	1000	80	ug/L		10/04/21 09:17	10/08/21 19:37	200
Fluorene	1000	U	1000	72	ug/L		10/04/21 09:17	10/08/21 19:37	200
Ideno(1,2,3-cd)pyrene	1000	U	1000	94	ug/L		10/04/21 09:17	10/08/21 19:37	200
Naphthalene	**8300**		1000	150	ug/L		10/04/21 09:17	10/08/21 19:37	200
Phenanthrene	1000	U	1000	88	ug/L		10/04/21 09:17	10/08/21 19:37	200
Pyrene	1000	U	1000	68	ug/L		10/04/21 09:17	10/08/21 19:37	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*110*		*48 - 120*	*10/04/21 09:17*	*10/08/21 19:37*	*200*
Nitrobenzene-d5 (Surr)	*254*	*S1+*	*46 - 120*	*10/04/21 09:17*	*10/08/21 19:37*	*200*
p-Terphenyl-d14 (Surr)	*79*		*60 - 148*	*10/04/21 09:17*	*10/08/21 19:37*	*200*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**3.6**	**J**	4.5	0.80	ng/L		10/06/21 10:31	10/11/21 20:08	1
Perfluoropentanoic acid (PFPeA)	**0.59**	**J**	1.8	0.43	ng/L		10/06/21 10:31	10/11/21 20:08	1
Perfluorohexanoic acid (PFHxA)	**1.2**	**J**	1.8	0.41	ng/L		10/06/21 10:31	10/11/21 20:08	1
Perfluoroheptanoic acid (PFHpA)	**0.67**	**J**	1.8	0.21	ng/L		10/06/21 10:31	10/11/21 20:08	1
Perfluorooctanoic acid (PFOA)	**1.3**	**J**	1.8	0.38	ng/L		10/06/21 10:31	10/11/21 20:08	1
Perfluorononanoic acid (PFNA)	**0.26**	**J**	1.8	0.25	ng/L		10/06/21 10:31	10/11/21 20:08	1
Perfluorodecanoic acid (PFDA)	1.8	U	1.8	0.27	ng/L		10/06/21 10:31	10/11/21 20:08	1
Perfluoroundecanoic acid (PFUnA)	1.8	U	1.8	0.31	ng/L		10/06/21 10:31	10/11/21 20:08	1
Perfluorododecanoic acid (PFDoA)	1.8	U	1.8	0.35	ng/L		10/06/21 10:31	10/11/21 20:08	1
Perfluorotridecanoic acid (PFTriA)	1.8	U	1.8	0.39	ng/L		10/06/21 10:31	10/11/21 20:08	1
Perfluorotetradecanoic acid (PFTeA)	1.8	U	1.8	0.57	ng/L		10/06/21 10:31	10/11/21 20:08	1
Perfluorobutanesulfonic acid (PFBS)	**0.54**	**J**	1.8	0.22	ng/L		10/06/21 10:31	10/11/21 20:08	1
Perfluorohexanesulfonic acid (PFHxS)	**0.63**	**J**	1.8	0.27	ng/L		10/06/21 10:31	10/11/21 20:08	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.8	U	1.8	0.21	ng/L		10/06/21 10:31	10/11/21 20:08	1
Perfluorooctanesulfonic acid (PFOS)	**1.2**	**J B**	1.8	0.26	ng/L		10/06/21 10:31	10/11/21 20:08	1
Perfluorodecanesulfonic acid (PFDS)	1.8	U	1.8	0.27	ng/L		10/06/21 10:31	10/11/21 20:08	1
Perfluorooctanesulfonamide (PFOSA)	1.8	U	1.8	0.52	ng/L		10/06/21 10:31	10/11/21 20:08	1

Client Sample ID: MW-10D-0930201

Lab Sample ID: 480-190358-7

Date Collected: 09/30/21 16:35

Matrix: Water

Date Received: 10/01/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.5	U	4.5	0.81	ng/L		10/06/21 10:31	10/11/21 20:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.5	U	4.5	0.67	ng/L		10/06/21 10:31	10/11/21 20:08	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	**3.4**	**J**	4.5	0.98	ng/L		10/06/21 10:31	10/11/21 20:08	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.8	U	1.8	0.35	ng/L		10/06/21 10:31	10/11/21 20:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*110*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
13C4 PFHpA	*101*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
13C4 PFOA	*101*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
13C4 PFOS	*101*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
13C5 PFNA	*94*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
13C4 PFBA	*84*		*25 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
13C2 PFHxA	*96*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
13C2 PFDA	*90*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
13C2 PFUnA	*86*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
13C2 PFDoA	*85*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
13C8 FOSA	*92*		*25 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
13C5 PFPeA	*93*		*25 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
13C2 PFTeDA	*82*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
d3-NMeFOSAA	*90*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
d5-NEtFOSAA	*77*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
M2-6:2 FTS	*124*		*25 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
M2-8:2 FTS	*113*		*25 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*
13C3 PFBS	*108*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:08*	*1*

Client Sample ID: EB-09302021

Lab Sample ID: 480-190358-8

Date Collected: 09/30/21 16:30

Matrix: Water

Date Received: 10/01/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			10/07/21 10:11	1
Toluene	1.0	U	1.0	0.51	ug/L			10/07/21 10:11	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/07/21 10:11	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			10/07/21 10:11	1
o-Xylene	1.0	U	1.0	0.76	ug/L			10/07/21 10:11	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/07/21 10:11	1
Total BTEX	2.0	U	2.0	1.0	ug/L			10/07/21 10:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/07/21 10:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*10/07/21 10:11*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*10/07/21 10:11*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*10/07/21 10:11*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		10/04/21 15:04	10/05/21 16:29	1

Client Sample ID: EB-09302021

Date Collected: 09/30/21 16:30
Date Received: 10/01/21 10:00

Lab Sample ID: 480-190358-8

Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	38		15 - 110	10/04/21 15:04	10/05/21 16:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.4	U	5.4	0.45	ug/L		10/04/21 09:17	10/07/21 21:53	1
Acenaphthylene	5.4	U	5.4	0.41	ug/L		10/04/21 09:17	10/07/21 21:53	1
Anthracene	5.4	U	5.4	0.30	ug/L		10/04/21 09:17	10/07/21 21:53	1
Benzo(a)anthracene	5.4	U	5.4	0.39	ug/L		10/04/21 09:17	10/07/21 21:53	1
Benzo(a)pyrene	5.4	U	5.4	0.51	ug/L		10/04/21 09:17	10/07/21 21:53	1
Benzo(b)fluoranthene	5.4	U	5.4	0.37	ug/L		10/04/21 09:17	10/07/21 21:53	1
Benzo(g,h,i) perylene	5.4	U	5.4	0.38	ug/L		10/04/21 09:17	10/07/21 21:53	1
Benzo(k)fluoranthene	5.4	U	5.4	0.79	ug/L		10/04/21 09:17	10/07/21 21:53	1
Chrysene	5.4	U	5.4	0.36	ug/L		10/04/21 09:17	10/07/21 21:53	1
Dibenz(a,h)anthracene	5.4	U	5.4	0.46	ug/L		10/04/21 09:17	10/07/21 21:53	1
Fluoranthene	5.4	U	5.4	0.43	ug/L		10/04/21 09:17	10/07/21 21:53	1
Fluorene	5.4	U	5.4	0.39	ug/L		10/04/21 09:17	10/07/21 21:53	1
Ideno(1,2,3-cd)pyrene	5.4	U	5.4	0.51	ug/L		10/04/21 09:17	10/07/21 21:53	1
Naphthalene	**1.7**	**J**	5.4	0.83	ug/L		10/04/21 09:17	10/07/21 21:53	1
Phenanthrene	5.4	U	5.4	0.48	ug/L		10/04/21 09:17	10/07/21 21:53	1
Pyrene	5.4	U	5.4	0.37	ug/L		10/04/21 09:17	10/07/21 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	108		48 - 120	10/04/21 09:17	10/07/21 21:53	1
Nitrobenzene-d5 (Surr)	105		46 - 120	10/04/21 09:17	10/07/21 21:53	1
p-Terphenyl-d14 (Surr)	113		60 - 148	10/04/21 09:17	10/07/21 21:53	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.5	U	4.5	0.80	ng/L		10/06/21 10:31	10/11/21 20:16	1
Perfluoropentanoic acid (PFPeA)	1.8	U	1.8	0.43	ng/L		10/06/21 10:31	10/11/21 20:16	1
Perfluorohexanoic acid (PFHxA)	1.8	U	1.8	0.41	ng/L		10/06/21 10:31	10/11/21 20:16	1
Perfluoroheptanoic acid (PFHpA)	1.8	U	1.8	0.21	ng/L		10/06/21 10:31	10/11/21 20:16	1
Perfluorooctanoic acid (PFOA)	1.8	U	1.8	0.38	ng/L		10/06/21 10:31	10/11/21 20:16	1
Perfluorononanoic acid (PFNA)	1.8	U	1.8	0.25	ng/L		10/06/21 10:31	10/11/21 20:16	1
Perfluorodecanoic acid (PFDA)	1.8	U	1.8	0.27	ng/L		10/06/21 10:31	10/11/21 20:16	1
Perfluoroundecanoic acid (PFUnA)	1.8	U	1.8	0.31	ng/L		10/06/21 10:31	10/11/21 20:16	1
Perfluorododecanoic acid (PFDoA)	1.8	U	1.8	0.35	ng/L		10/06/21 10:31	10/11/21 20:16	1
Perfluorotridecanoic acid (PFTriA)	1.8	U	1.8	0.39	ng/L		10/06/21 10:31	10/11/21 20:16	1
Perfluorotetradecanoic acid (PFTeA)	1.8	U	1.8	0.57	ng/L		10/06/21 10:31	10/11/21 20:16	1
Perfluorobutanesulfonic acid (PFBS)	1.8	U	1.8	0.22	ng/L		10/06/21 10:31	10/11/21 20:16	1
Perfluorohexanesulfonic acid (PFHxS)	1.8	U	1.8	0.27	ng/L		10/06/21 10:31	10/11/21 20:16	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.8	U	1.8	0.21	ng/L		10/06/21 10:31	10/11/21 20:16	1
Perfluorooctanesulfonic acid (PFOS)	**0.73**	**J B**	1.8	0.26	ng/L		10/06/21 10:31	10/11/21 20:16	1
Perfluorodecanesulfonic acid (PFDS)	1.8	U	1.8	0.27	ng/L		10/06/21 10:31	10/11/21 20:16	1
Perfluorooctanesulfonamide (PFOSA)	1.8	U	1.8	0.52	ng/L		10/06/21 10:31	10/11/21 20:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.5	U	4.5	0.81	ng/L		10/06/21 10:31	10/11/21 20:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.5	U	4.5	0.67	ng/L		10/06/21 10:31	10/11/21 20:16	1

Client Sample ID: EB-09302021

Lab Sample ID: 480-190358-8

Date Collected: 09/30/21 16:30

Matrix: Water

Date Received: 10/01/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.5	U	4.5	0.98	ng/L		10/06/21 10:31	10/11/21 20:16	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.8	U	1.8	0.35	ng/L		10/06/21 10:31	10/11/21 20:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*112*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
13C4 PFHpA	*105*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
13C4 PFOA	*100*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
13C4 PFOS	*106*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
13C5 PFNA	*102*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
13C4 PFBA	*103*		*25 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
13C2 PFHxA	*97*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
13C2 PFDA	*99*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
13C2 PFUnA	*94*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
13C2 PFDoA	*95*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
13C8 FOSA	*91*		*25 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
13C5 PFPeA	*109*		*25 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
13C2 PFTeDA	*96*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
d3-NMeFOSAA	*98*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
d5-NEtFOSAA	*93*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
M2-6:2 FTS	*136*		*25 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
M2-8:2 FTS	*126*		*25 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*
13C3 PFBS	*113*		*50 - 150*	*10/06/21 10:31*	*10/11/21 20:16*	*1*

Client Sample ID: TB1-09302021

Lab Sample ID: 480-190358-9

Date Collected: 09/30/21 10:00

Matrix: Water

Date Received: 10/01/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			10/07/21 10:35	1
Toluene	1.0	U	1.0	0.51	ug/L			10/07/21 10:35	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/07/21 10:35	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			10/07/21 10:35	1
o-Xylene	1.0	U	1.0	0.76	ug/L			10/07/21 10:35	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/07/21 10:35	1
Total BTEX	2.0	U	2.0	1.0	ug/L			10/07/21 10:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/07/21 10:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*10/07/21 10:35*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*10/07/21 10:35*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*10/07/21 10:35*	*1*

Client Sample ID: TB2-09302021

Lab Sample ID: 480-190358-10

Date Collected: 09/30/21 10:05

Matrix: Water

Date Received: 10/01/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			10/07/21 10:58	1

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190358-1

Client Sample ID: TB2-09302021
Date Collected: 09/30/21 10:05
Date Received: 10/01/21 10:00

Lab Sample ID: 480-190358-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.51	ug/L			10/07/21 10:58	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/07/21 10:58	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			10/07/21 10:58	1
o-Xylene	1.0	U	1.0	0.76	ug/L			10/07/21 10:58	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/07/21 10:58	1
Total BTEX	2.0	U	2.0	1.0	ug/L			10/07/21 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/07/21 10:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*10/07/21 10:58*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*10/07/21 10:58*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*10/07/21 10:58*	*1*

Surrogate Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190358-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-190358-1	MW-PAR-01-09302021	99	101	95	94
480-190358-1 MS	MW-PAR-01-09302021	104	98	101	97
480-190358-1 MSD	MW-PAR-01-09302021	100	99	98	95
480-190358-2	BD-09302021	99	103	97	94
480-190358-3	MW-09D-09302021	103	96	100	92
480-190358-4	MW-08D-09302021	103	89	104	95
480-190358-5	MW-PAR-02-09302021	97	97	113	95
480-190358-6	MW-01B-0930201	99	95	98	92
480-190358-7	MW-10D-0930201	103	103	97	100
480-190358-8	EB-09302021	104	98	96	98
480-190358-9	TB1-09302021	102	98	96	96
480-190358-10	TB2-09302021	104	100	99	103
LCS 480-599315/6	Lab Control Sample	102	96	102	93
MB 480-599315/8	Method Blank	102	101	94	103

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(48-120)	(46-120)	(60-148)
480-190358-1	MW-PAR-01-09302021	100	91	81
480-190358-1 - DL	MW-PAR-01-09302021	101	92	79
480-190358-1 MS	MW-PAR-01-09302021	106	105	66
480-190358-1 MS - DL	MW-PAR-01-09302021	111	97	63
480-190358-1 MSD	MW-PAR-01-09302021	100	93	61
480-190358-1 MSD - DL	MW-PAR-01-09302021	97	93	55 S1-
480-190358-2	BD-09302021	108	99	83
480-190358-2 - DL	BD-09302021	104	96	77
480-190358-3	MW-09D-09302021	89	89	70
480-190358-3 - DL	MW-09D-09302021	105	0 S1-	74
480-190358-4	MW-08D-09302021	104	132 S1+	99
480-190358-4 - DL	MW-08D-09302021	107	243 S1+	82
480-190358-5	MW-PAR-02-09302021	92	82	74
480-190358-5 - DL	MW-PAR-02-09302021	90	110	65
480-190358-6	MW-01B-0930201	103	93	81
480-190358-7	MW-10D-0930201	103	192 S1+ *3	93
480-190358-7 - DL	MW-10D-0930201	110	254 S1+	79
480-190358-8	EB-09302021	108	105	113
LCS 480-598871/2-A	Lab Control Sample	106	101	100
LCSD 480-598871/3-A	Lab Control Sample Dup	90	76	96
MB 480-598871/1-A	Method Blank	89	78	99

Surrogate Legend

Surrogate Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190358-1

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Isotope Dilution Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190358-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DXE (15-110)							
480-190358-1	MW-PAR-01-09302021	46							
480-190358-1 MS	MW-PAR-01-09302021	33							
480-190358-1 MSD	MW-PAR-01-09302021	40							
480-190358-2	BD-09302021	39							
480-190358-3	MW-09D-09302021	40							
480-190358-4	MW-08D-09302021	35							
480-190358-5	MW-PAR-02-09302021	34							
480-190358-6	MW-01B-0930201	26							
480-190358-7	MW-10D-0930201	40							
480-190358-8	EB-09302021	38							
LCS 480-598946/2-A	Lab Control Sample	41							
MB 480-598946/1-A	Method Blank	32							

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFHxS (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFOS (50-150)	PFNA (50-150)	PFBA (25-150)	PFHxA (50-150)	PFDA (50-150)
480-190358-1	MW-PAR-01-09302021	110	103	100	110	103	71	92	100
480-190358-1 MS	MW-PAR-01-09302021	109	98	98	112	102	77	93	98
480-190358-1 MSD	MW-PAR-01-09302021	112	100	102	110	103	79	94	103
480-190358-2	BD-09302021	110	106	98	106	100	77	95	101
480-190358-3	MW-09D-09302021	107	99	101	104	99	84	95	97
480-190358-4	MW-08D-09302021	106	105	100	107	100	90	99	98
480-190358-5	MW-PAR-02-09302021	110	105	103	111	103	74	95	102
480-190358-6	MW-01B-0930201	107	105	105	104	98	90	95	98
480-190358-7	MW-10D-0930201	110	101	101	101	94	84	96	90
480-190358-8	EB-09302021	112	105	100	106	102	103	97	99
LCS 200-172270/2-A	Lab Control Sample	115	103	104	114	100	101	103	104
MB 200-172270/1-A	Method Blank	110	100	99	109	99	97	93	101

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDoA (50-150)	PFOSA (25-150)	PFPeA (25-150)	PFTDA (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)	M262FTS (25-150)
480-190358-1	MW-PAR-01-09302021	100	98	98	92	99	104	96	144
480-190358-1 MS	MW-PAR-01-09302021	91	96	104	96	97	98	89	138
480-190358-1 MSD	MW-PAR-01-09302021	96	95	101	97	98	97	90	142
480-190358-2	BD-09302021	94	94	100	96	93	99	86	127
480-190358-3	MW-09D-09302021	96	99	100	97	95	94	89	136
480-190358-4	MW-08D-09302021	87	89	98	98	88	90	88	133
480-190358-5	MW-PAR-02-09302021	93	92	103	92	94	100	100	139
480-190358-6	MW-01B-0930201	91	99	98	98	90	93	88	143
480-190358-7	MW-10D-0930201	86	85	92	93	82	90	77	124
480-190358-8	EB-09302021	94	95	91	109	96	98	93	136
LCS 200-172270/2-A	Lab Control Sample	89	89	89	105	87	94	85	131
MB 200-172270/1-A	Method Blank	90	97	85	98	96	104	89	129

Isotope Dilution Summary

Client: Parsons Corporation
Job ID: 480-190358-1
Project/Site: Avangrid - Clark Street

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	M282FTS (25-150)	C3PFBS (50-150)								
480-190358-1	MW-PAR-01-09302021	134	106								
480-190358-1 MS	MW-PAR-01-09302021	120	111								
480-190358-1 MSD	MW-PAR-01-09302021	133	112								
480-190358-2	BD-09302021	131	108								
480-190358-3	MW-09D-09302021	119	111								
480-190358-4	MW-08D-09302021	130	109								
480-190358-5	MW-PAR-02-09302021	130	106								
480-190358-6	MW-01B-0930201	122	111								
480-190358-7	MW-10D-0930201	113	108								
480-190358-8	EB-09302021	126	113								
LCS 200-172270/2-A	Lab Control Sample	125	118								
MB 200-172270/1-A	Method Blank	133	113								

Surrogate Legend

PFHxS = 18O2 PFHxS
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFNA = 13C5 PFNA
PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFOSA = 13C8 FOSA
PFPeA = 13C5 PFPeA
PFTDA = 13C2 PFTeDA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
C3PFBS = 13C3 PFBS

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-599315/8
Matrix: Water
Analysis Batch: 599315

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			10/07/21 05:23	1
Toluene	1.0	U	1.0	0.51	ug/L			10/07/21 05:23	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/07/21 05:23	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			10/07/21 05:23	1
o-Xylene	1.0	U	1.0	0.76	ug/L			10/07/21 05:23	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/07/21 05:23	1
Total BTEX	2.0	U	2.0	1.0	ug/L			10/07/21 05:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/07/21 05:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*10/07/21 05:23*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*10/07/21 05:23*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*10/07/21 05:23*	*1*

Lab Sample ID: LCS 480-599315/6
Matrix: Water
Analysis Batch: 599315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			25.0	25.3		ug/L		101	71 - 124		
Toluene			25.0	25.6		ug/L		102	80 - 122		
Ethylbenzene			25.0	25.1		ug/L		101	77 - 123		
m-Xylene & p-Xylene			25.0	25.6		ug/L		103	76 - 122		
o-Xylene			25.0	25.3		ug/L		101	76 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*

Lab Sample ID: 480-190358-1 MS
Matrix: Water
Analysis Batch: 599315

Client Sample ID: MW-PAR-01-09302021
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	29	F1	25.0	58.9		ug/L		118	71 - 124		
Toluene	1.0	U	25.0	29.9		ug/L		119	80 - 122		
Ethylbenzene	2.9		25.0	32.7		ug/L		119	77 - 123		
m-Xylene & p-Xylene	2.0	U	25.0	29.5		ug/L		118	76 - 122		
o-Xylene	0.85	J	25.0	29.5		ug/L		115	76 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-190358-1 MSD
Matrix: Water
Analysis Batch: 599315

Client Sample ID: MW-PAR-01-09302021
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	29	F1	25.0	60.6	F1	ug/L		125	71 - 124	3	13
Toluene	1.0	U	25.0	30.3		ug/L		121	80 - 122	2	15
Ethylbenzene	2.9		25.0	33.1		ug/L		121	77 - 123	2	15
m-Xylene & p-Xylene	2.0	U	25.0	30.3		ug/L		121	76 - 122	3	16
o-Xylene	0.85	J	25.0	30.0		ug/L		117	76 - 122	1	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*95*		*75 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-598871/1-A
Matrix: Water
Analysis Batch: 599414

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.0	U	5.0	0.41	ug/L		10/04/21 09:17	10/07/21 16:29	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		10/04/21 09:17	10/07/21 16:29	1
Anthracene	5.0	U	5.0	0.28	ug/L		10/04/21 09:17	10/07/21 16:29	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		10/04/21 09:17	10/07/21 16:29	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		10/04/21 09:17	10/07/21 16:29	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		10/04/21 09:17	10/07/21 16:29	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		10/04/21 09:17	10/07/21 16:29	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		10/04/21 09:17	10/07/21 16:29	1
Chrysene	5.0	U	5.0	0.33	ug/L		10/04/21 09:17	10/07/21 16:29	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		10/04/21 09:17	10/07/21 16:29	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		10/04/21 09:17	10/07/21 16:29	1
Fluorene	5.0	U	5.0	0.36	ug/L		10/04/21 09:17	10/07/21 16:29	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		10/04/21 09:17	10/07/21 16:29	1
Naphthalene	5.0	U	5.0	0.76	ug/L		10/04/21 09:17	10/07/21 16:29	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		10/04/21 09:17	10/07/21 16:29	1
Pyrene	5.0	U	5.0	0.34	ug/L		10/04/21 09:17	10/07/21 16:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*48 - 120*	*10/04/21 09:17*	*10/07/21 16:29*	*1*
Nitrobenzene-d5 (Surr)	*78*		*46 - 120*	*10/04/21 09:17*	*10/07/21 16:29*	*1*
p-Terphenyl-d14 (Surr)	*99*		*60 - 148*	*10/04/21 09:17*	*10/07/21 16:29*	*1*

Lab Sample ID: LCS 480-598871/2-A
Matrix: Water
Analysis Batch: 599414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	33.1		ug/L		103	60 - 120
Acenaphthylene	32.0	33.2		ug/L		104	63 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-598871/2-A
Matrix: Water
Analysis Batch: 599414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598871

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Anthracene			32.0	34.2		ug/L		107	67 - 120		
Benzo(a)anthracene			32.0	32.7		ug/L		102	70 - 121		
Benzo(a)pyrene			32.0	30.3		ug/L		95	60 - 123		
Benzo(b)fluoranthene			32.0	31.4		ug/L		98	66 - 126		
Benzo(g,h,i) perylene			32.0	30.8		ug/L		96	66 - 150		
Benzo(k)fluoranthene			32.0	30.5		ug/L		95	65 - 124		
Chrysene			32.0	32.5		ug/L		101	69 - 120		
Dibenz(a,h)anthracene			32.0	31.0		ug/L		97	65 - 135		
Fluoranthene			32.0	35.2		ug/L		110	69 - 126		
Fluorene			32.0	32.4		ug/L		101	66 - 120		
Ideno(1,2,3-cd)pyrene			32.0	30.3		ug/L		95	69 - 146		
Naphthalene			32.0	32.2		ug/L		101	57 - 120		
Phenanthrene			32.0	33.1		ug/L		104	68 - 120		
Pyrene			32.0	35.9		ug/L		112	70 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*106*		*48 - 120*
Nitrobenzene-d5 (Surr)	*101*		*46 - 120*
p-Terphenyl-d14 (Surr)	*100*		*60 - 148*

Lab Sample ID: LCSD 480-598871/3-A
Matrix: Water
Analysis Batch: 599414

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 598871

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			32.0	29.2		ug/L		91	60 - 120	13	24
Acenaphthylene			32.0	30.8		ug/L		96	63 - 120	8	18
Anthracene			32.0	32.6		ug/L		102	67 - 120	5	15
Benzo(a)anthracene			32.0	31.0		ug/L		97	70 - 121	5	15
Benzo(a)pyrene			32.0	29.1		ug/L		91	60 - 123	4	15
Benzo(b)fluoranthene			32.0	30.0		ug/L		94	66 - 126	5	15
Benzo(g,h,i) perylene			32.0	29.6		ug/L		92	66 - 150	4	15
Benzo(k)fluoranthene			32.0	30.9		ug/L		97	65 - 124	1	22
Chrysene			32.0	31.9		ug/L		100	69 - 120	2	15
Dibenz(a,h)anthracene			32.0	29.5		ug/L		92	65 - 135	5	15
Fluoranthene			32.0	34.6		ug/L		108	69 - 126	2	15
Fluorene			32.0	31.1		ug/L		97	66 - 120	4	15
Ideno(1,2,3-cd)pyrene			32.0	28.7		ug/L		90	69 - 146	6	15
Naphthalene			32.0	24.8		ug/L		77	57 - 120	26	29
Phenanthrene			32.0	31.9		ug/L		100	68 - 120	4	15
Pyrene			32.0	33.4		ug/L		104	70 - 125	7	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*90*		*48 - 120*
Nitrobenzene-d5 (Surr)	*76*		*46 - 120*
p-Terphenyl-d14 (Surr)	*96*		*60 - 148*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-190358-1 MS
Matrix: Water
Analysis Batch: 599414

Client Sample ID: MW-PAR-01-09302021
Prep Type: Total/NA
Prep Batch: 598871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	210	E	32.0	244	E 4	ug/L		100	48 - 120
Acenaphthylene	4.8	J	32.0	39.7		ug/L		109	63 - 120
Anthracene	5.6		32.0	41.0		ug/L		111	65 - 122
Benzo(a)anthracene	5.0	U	32.0	23.2		ug/L		72	43 - 124
Benzo(a)pyrene	5.0	U	32.0	19.9		ug/L		62	23 - 125
Benzo(b)fluoranthene	5.0	U	32.0	20.0		ug/L		63	27 - 127
Benzo(g,h,i) perylene	5.0	U	32.0	18.2		ug/L		57	16 - 147
Benzo(k)fluoranthene	5.0	U	32.0	18.7		ug/L		59	20 - 124
Chrysene	5.0	U	32.0	22.6		ug/L		71	44 - 122
Dibenz(a,h)anthracene	5.0	U	32.0	18.7		ug/L		58	16 - 139
Fluoranthene	8.0		32.0	39.6		ug/L		99	63 - 129
Fluorene	67	E	32.0	100	E	ug/L		105	62 - 120
Ideno(1,2,3-cd)pyrene	5.0	U	32.0	18.4		ug/L		58	16 - 140
Naphthalene	3.1	J	32.0	32.7		ug/L		92	45 - 120
Phenanthrene	69	E F1	32.0	98.7	E	ug/L		94	65 - 122
Pyrene	11		32.0	43.5		ug/L		102	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*106*		*48 - 120*
Nitrobenzene-d5 (Surr)	*105*		*46 - 120*
p-Terphenyl-d14 (Surr)	*66*		*60 - 148*

Lab Sample ID: 480-190358-1 MSD
Matrix: Water
Analysis Batch: 599414

Client Sample ID: MW-PAR-01-09302021
Prep Type: Total/NA
Prep Batch: 598871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	210	E	33.3	228	E 4	ug/L		49	48 - 120	7	24
Acenaphthylene	4.8	J	33.3	36.9		ug/L		97	63 - 120	7	18
Anthracene	5.6		33.3	37.3		ug/L		95	65 - 122	9	15
Benzo(a)anthracene	5.0	U	33.3	22.4		ug/L		67	43 - 124	3	15
Benzo(a)pyrene	5.0	U	33.3	18.1		ug/L		54	23 - 125	10	15
Benzo(b)fluoranthene	5.0	U	33.3	19.0		ug/L		57	27 - 127	5	15
Benzo(g,h,i) perylene	5.0	U	33.3	17.6		ug/L		53	16 - 147	4	15
Benzo(k)fluoranthene	5.0	U	33.3	18.6		ug/L		56	20 - 124	1	22
Chrysene	5.0	U	33.3	21.3		ug/L		64	44 - 122	6	15
Dibenz(a,h)anthracene	5.0	U	33.3	17.3		ug/L		52	16 - 139	8	15
Fluoranthene	8.0		33.3	36.7		ug/L		86	63 - 129	8	15
Fluorene	67	E	33.3	93.2	E	ug/L		80	62 - 120	7	15
Ideno(1,2,3-cd)pyrene	5.0	U	33.3	17.4		ug/L		52	16 - 140	6	15
Naphthalene	3.1	J	33.3	32.9		ug/L		89	45 - 120	1	29
Phenanthrene	69	E F1	33.3	89.1	E F1	ug/L		62	65 - 122	10	15
Pyrene	11		33.3	38.4		ug/L		83	58 - 128	12	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*100*		*48 - 120*
Nitrobenzene-d5 (Surr)	*93*		*46 - 120*
p-Terphenyl-d14 (Surr)	*61*		*60 - 148*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Lab Sample ID: 480-190358-1 MS
Matrix: Water
Analysis Batch: 599621

Client Sample ID: MW-PAR-01-09302021
Prep Type: Total/NA
Prep Batch: 598871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene - DL	250		32.0	293	4	ug/L		126	48 - 120
Acenaphthylene - DL	4.3	J	32.0	39.4	J	ug/L		109	63 - 120
Anthracene - DL	5.3	J	32.0	38.5	J	ug/L		104	65 - 122
Benzo(a)anthracene - DL	50	U	32.0	23.8	J	ug/L		74	43 - 124
Benzo(a)pyrene - DL	50	U	32.0	18.3	J	ug/L		57	23 - 125
Benzo(b)fluoranthene - DL	50	U	32.0	19.0	J	ug/L		59	27 - 127
Benzo(g,h,i) perylene - DL	50	U	32.0	17.6	J	ug/L		55	16 - 147
Benzo(k)fluoranthene - DL	50	U	32.0	18.3	J	ug/L		57	20 - 124
Chrysene - DL	50	U	32.0	22.3	J	ug/L		70	44 - 122
Dibenz(a,h)anthracene - DL	50	U	32.0	17.2	J	ug/L		54	16 - 139
Fluoranthene - DL	7.5	J	32.0	38.4	J	ug/L		97	63 - 129
Fluorene - DL	67	F2	32.0	105		ug/L		119	62 - 120
Ideno(1,2,3-cd)pyrene - DL	50	U	32.0	16.6	J	ug/L		52	16 - 140
Naphthalene - DL	50	U	32.0	32.8	J	ug/L		102	45 - 120
Phenanthrene - DL	73		32.0	103		ug/L		93	65 - 122
Pyrene - DL	10	J	32.0	42.5	J	ug/L		100	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl - DL	*111*		*48 - 120*
Nitrobenzene-d5 (Surr) - DL	*97*		*46 - 120*
p-Terphenyl-d14 (Surr) - DL	*63*		*60 - 148*

Lab Sample ID: 480-190358-1 MSD
Matrix: Water
Analysis Batch: 599621

Client Sample ID: MW-PAR-01-09302021
Prep Type: Total/NA
Prep Batch: 598871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene - DL	250		33.3	254	4	ug/L		3	48 - 120	14	24
Acenaphthylene - DL	4.3	J	33.3	36.3	J	ug/L		96	63 - 120	8	18
Anthracene - DL	5.3	J	33.3	35.3	J	ug/L		90	65 - 122	9	15
Benzo(a)anthracene - DL	50	U	33.3	20.6	J	ug/L		62	43 - 124	14	15
Benzo(a)pyrene - DL	50	U	33.3	17.2	J	ug/L		52	23 - 125	6	15
Benzo(b)fluoranthene - DL	50	U	33.3	18.0	J	ug/L		54	27 - 127	6	15
Benzo(g,h,i) perylene - DL	50	U	33.3	16.8	J	ug/L		51	16 - 147	5	15
Benzo(k)fluoranthene - DL	50	U	33.3	17.4	J	ug/L		52	20 - 124	5	22
Chrysene - DL	50	U	33.3	20.1	J	ug/L		60	44 - 122	11	15
Dibenz(a,h)anthracene - DL	50	U	33.3	15.7	J	ug/L		47	16 - 139	9	15
Fluoranthene - DL	7.5	J	33.3	34.8	J	ug/L		82	63 - 129	10	15
Fluorene - DL	67	F2	33.3	88.6	F2	ug/L		65	62 - 120	17	15
Ideno(1,2,3-cd)pyrene - DL	50	U	33.3	16.6	J	ug/L		50	16 - 140	0	15
Naphthalene - DL	50	U	33.3	33.4	J	ug/L		100	45 - 120	2	29
Phenanthrene - DL	73		33.3	96.1		ug/L		68	65 - 122	7	15
Pyrene - DL	10	J	33.3	35.6	J	ug/L		75	58 - 128	18	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl - DL	*97*		*48 - 120*
Nitrobenzene-d5 (Surr) - DL	*93*		*46 - 120*
p-Terphenyl-d14 (Surr) - DL	*55*	*S1-*	*60 - 148*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-598946/1-A
Matrix: Water
Analysis Batch: 599026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598946

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		10/04/21 15:04	10/05/21 10:58	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*32*		*15 - 110*	*10/04/21 15:04*	*10/05/21 10:58*	*1*

Lab Sample ID: LCS 480-598946/2-A
Matrix: Water
Analysis Batch: 599026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598946

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			2.00	2.06		ug/L		103	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*41*		*15 - 110*

Lab Sample ID: 480-190358-1 MS
Matrix: Water
Analysis Batch: 599026

Client Sample ID: MW-PAR-01-09302021
Prep Type: Total/NA
Prep Batch: 598946

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	0.20	U	2.00	2.03		ug/L		102	40 - 140		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8	*33*		*15 - 110*

Lab Sample ID: 480-190358-1 MSD
Matrix: Water
Analysis Batch: 599026

Client Sample ID: MW-PAR-01-09302021
Prep Type: Total/NA
Prep Batch: 598946

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.20	U	2.00	2.07		ug/L		103	40 - 140	2	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8	*40*		*15 - 110*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-172270/1-A
Matrix: Water
Analysis Batch: 172482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 172270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.0	U	5.0	0.89	ng/L		10/06/21 10:31	10/11/21 16:57	1
Perfluoropentanoic acid (PFPeA)	2.0	U	2.0	0.47	ng/L		10/06/21 10:31	10/11/21 16:57	1
Perfluorohexanoic acid (PFHxA)	2.0	U	2.0	0.45	ng/L		10/06/21 10:31	10/11/21 16:57	1
Perfluoroheptanoic acid (PFHpA)	2.0	U	2.0	0.24	ng/L		10/06/21 10:31	10/11/21 16:57	1
Perfluorooctanoic acid (PFOA)	2.0	U	2.0	0.42	ng/L		10/06/21 10:31	10/11/21 16:57	1
Perfluorononanoic acid (PFNA)	2.0	U	2.0	0.28	ng/L		10/06/21 10:31	10/11/21 16:57	1
Perfluorodecanoic acid (PFDA)	2.0	U	2.0	0.30	ng/L		10/06/21 10:31	10/11/21 16:57	1
Perfluoroundecanoic acid (PFUnA)	2.0	U	2.0	0.34	ng/L		10/06/21 10:31	10/11/21 16:57	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 200-172270/1-A
Matrix: Water
Analysis Batch: 172482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 172270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	2.0	U	2.0	0.39	ng/L		10/06/21 10:31	10/11/21 16:57	1
Perfluorotridecanoic acid (PFTriA)	2.0	U	2.0	0.43	ng/L		10/06/21 10:31	10/11/21 16:57	1
Perfluorotetradecanoic acid (PFTeA)	2.0	U	2.0	0.63	ng/L		10/06/21 10:31	10/11/21 16:57	1
Perfluorobutanesulfonic acid (PFBS)	2.0	U	2.0	0.25	ng/L		10/06/21 10:31	10/11/21 16:57	1
Perfluorohexanesulfonic acid (PFHxS)	2.0	U	2.0	0.30	ng/L		10/06/21 10:31	10/11/21 16:57	1
Perfluoroheptanesulfonic Acid (PFHpS)	2.0	U	2.0	0.23	ng/L		10/06/21 10:31	10/11/21 16:57	1
Perfluorooctanesulfonic acid (PFOS)	0.776	J	2.0	0.29	ng/L		10/06/21 10:31	10/11/21 16:57	1
Perfluorodecanesulfonic acid (PFDS)	2.0	U	2.0	0.31	ng/L		10/06/21 10:31	10/11/21 16:57	1
Perfluorooctanesulfonamide (PFOSA)	2.0	U	2.0	0.58	ng/L		10/06/21 10:31	10/11/21 16:57	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.0	U	5.0	0.90	ng/L		10/06/21 10:31	10/11/21 16:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.08	J	5.0	0.74	ng/L		10/06/21 10:31	10/11/21 16:57	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	5.0	U	5.0	1.1	ng/L		10/06/21 10:31	10/11/21 16:57	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.0	U	2.0	0.39	ng/L		10/06/21 10:31	10/11/21 16:57	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*110*		*50 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
13C4 PFHpA	*100*		*50 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
13C4 PFOA	*99*		*50 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
13C4 PFOS	*109*		*50 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
13C5 PFNA	*99*		*50 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
13C4 PFBA	*97*		*25 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
13C2 PFHxA	*93*		*50 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
13C2 PFDA	*101*		*50 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
13C2 PFUnA	*90*		*50 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
13C2 PFDoA	*97*		*50 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
13C8 FOSA	*85*		*25 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
13C5 PFPeA	*98*		*25 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
13C2 PFTeDA	*96*		*50 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
d3-NMeFOSAA	*104*		*50 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
d5-NEtFOSAA	*89*		*50 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
M2-6:2 FTS	*129*		*25 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
M2-8:2 FTS	*133*		*25 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*
13C3 PFBS	*113*		*50 - 150*	*10/06/21 10:31*	*10/11/21 16:57*	*1*

Lab Sample ID: LCS 200-172270/2-A
Matrix: Water
Analysis Batch: 172482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 172270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	43.9		ng/L		110	50 - 150
Perfluoropentanoic acid (PFPeA)	40.0	44.5		ng/L		111	50 - 150
Perfluorohexanoic acid (PFHxA)	40.0	42.1		ng/L		105	70 - 130
Perfluoroheptanoic acid (PFHpA)	40.0	44.4		ng/L		111	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	41.7		ng/L		104	70 - 130
Perfluorononanoic acid (PFNA)	40.0	45.2		ng/L		113	70 - 130

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-172270/2-A
Matrix: Water
Analysis Batch: 172482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 172270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorodecanoic acid (PFDA)	40.0	42.6		ng/L		107	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	51.2		ng/L		128	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	44.4		ng/L		111	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	42.8		ng/L		107	70 - 130
Perfluorotetradecanoic acid (PFTeA)	40.0	51.6		ng/L		129	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	39.4		ng/L		111	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	39.0		ng/L		107	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	43.0		ng/L		113	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	40.4		ng/L		109	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	41.6		ng/L		108	50 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	43.5		ng/L		109	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	47.3		ng/L		118	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.8		ng/L		102	70 - 130
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	38.2		ng/L		101	50 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	44.0		ng/L		115	50 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
18O2 PFHxS	*115*		*50 - 150*
13C4 PFHpA	*103*		*50 - 150*
13C4 PFOA	*104*		*50 - 150*
13C4 PFOS	*114*		*50 - 150*
13C5 PFNA	*100*		*50 - 150*
13C4 PFBA	*101*		*25 - 150*
13C2 PFHxA	*103*		*50 - 150*
13C2 PFDA	*104*		*50 - 150*
13C2 PFUnA	*89*		*50 - 150*
13C2 PFDoA	*89*		*50 - 150*
13C8 FOSA	*89*		*25 - 150*
13C5 PFPeA	*105*		*25 - 150*
13C2 PFTeDA	*87*		*50 - 150*
d3-NMeFOSAA	*94*		*50 - 150*
d5-NEtFOSAA	*85*		*50 - 150*
M2-6:2 FTS	*131*		*25 - 150*
M2-8:2 FTS	*125*		*25 - 150*
13C3 PFBS	*118*		*50 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-190358-1 MS
Matrix: Water
Analysis Batch: 172482

Client Sample ID: MW-PAR-01-09302021
Prep Type: Total/NA
Prep Batch: 172270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	5.7		35.4	41.1		ng/L		100	40 - 160
Perfluoropentanoic acid (PFPeA)	1.6	J	35.4	36.5		ng/L		99	40 - 160
Perfluorohexanoic acid (PFHxA)	2.0		35.4	39.1		ng/L		105	40 - 160
Perfluoroheptanoic acid (PFHpA)	1.6	J	35.4	39.1		ng/L		106	40 - 160
Perfluorooctanoic acid (PFOA)	3.4		35.4	40.7		ng/L		105	40 - 160
Perfluorononanoic acid (PFNA)	0.59	J	35.4	39.0		ng/L		108	40 - 160
Perfluorodecanoic acid (PFDA)	1.8	U	35.4	37.0		ng/L		104	40 - 160
Perfluoroundecanoic acid (PFUnA)	1.8	U	35.4	40.6		ng/L		114	40 - 160
Perfluorododecanoic acid (PFDoA)	1.8	U	35.4	37.1		ng/L		105	40 - 160
Perfluorotridecanoic acid (PFTriA)	1.8	U	35.4	35.6		ng/L		101	40 - 160
Perfluorotetradecanoic acid (PFTeA)	1.8	U	35.4	43.6		ng/L		123	40 - 160
Perfluorobutanesulfonic acid (PFBS)	1.6	J	31.3	34.7		ng/L		106	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	0.70	J	32.3	33.5		ng/L		102	40 - 160
Perfluoroheptanesulfonic Acid (PFHpS)	1.8	U	33.7	35.2		ng/L		104	40 - 160
Perfluorooctanesulfonic acid (PFOS)	2.1	B	32.9	36.0		ng/L		103	40 - 160
Perfluorodecanesulfonic acid (PFDS)	1.8	U	34.2	33.0		ng/L		97	40 - 160
Perfluorooctanesulfonamide (PFOSA)	1.8	U	35.4	36.7		ng/L		103	40 - 160
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.6	U	35.4	34.2		ng/L		97	40 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.6	U	35.4	37.1		ng/L		105	40 - 160
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.6	U	33.6	31.5		ng/L		94	40 - 160
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.8	U	34.0	35.8		ng/L		106	40 - 160

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
18O2 PFHxS	*109*		*50 - 150*
13C4 PFHpA	*98*		*50 - 150*
13C4 PFOA	*98*		*50 - 150*
13C4 PFOS	*112*		*50 - 150*
13C5 PFNA	*102*		*50 - 150*
13C4 PFBA	*77*		*25 - 150*
13C2 PFHxA	*93*		*50 - 150*
13C2 PFDA	*98*		*50 - 150*
13C2 PFUnA	*91*		*50 - 150*
13C2 PFDoA	*96*		*50 - 150*
13C8 FOSA	*104*		*25 - 150*
13C5 PFPeA	*96*		*25 - 150*
13C2 PFTeDA	*97*		*50 - 150*
d3-NMeFOSAA	*98*		*50 - 150*
d5-NEtFOSAA	*89*		*50 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-190358-1 MS
Matrix: Water
Analysis Batch: 172482

Client Sample ID: MW-PAR-01-09302021
Prep Type: Total/NA
Prep Batch: 172270

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
M2-6:2 FTS	138		25 - 150
M2-8:2 FTS	120		25 - 150
13C3 PFBS	111		50 - 150

Lab Sample ID: 480-190358-1 MSD
Matrix: Water
Analysis Batch: 172482

Client Sample ID: MW-PAR-01-09302021
Prep Type: Total/NA
Prep Batch: 172270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	5.7		36.3	41.1		ng/L		98	40 - 160	0	30
Perfluoropentanoic acid (PFPeA)	1.6	J	36.3	37.5		ng/L		99	40 - 160	3	30
Perfluorohexanoic acid (PFHxA)	2.0		36.3	39.2		ng/L		103	40 - 160	0	20
Perfluoroheptanoic acid (PFHpA)	1.6	J	36.3	38.3		ng/L		101	40 - 160	2	20
Perfluorooctanoic acid (PFOA)	3.4		36.3	39.1		ng/L		98	40 - 160	4	20
Perfluorononanoic acid (PFNA)	0.59	J	36.3	39.1		ng/L		106	40 - 160	0	20
Perfluorodecanoic acid (PFDA)	1.8	U	36.3	36.3		ng/L		100	40 - 160	2	20
Perfluoroundecanoic acid (PFUnA)	1.8	U	36.3	39.3		ng/L		108	40 - 160	3	20
Perfluorododecanoic acid (PFDoA)	1.8	U	36.3	37.1		ng/L		102	40 - 160	0	20
Perfluorotridecanoic acid (PFTriA)	1.8	U	36.3	38.3		ng/L		106	40 - 160	7	20
Perfluorotetradecanoic acid (PFTeA)	1.8	U	36.3	41.2		ng/L		114	40 - 160	6	20
Perfluorobutanesulfonic acid (PFBS)	1.6	J	32.1	35.7		ng/L		106	40 - 160	3	20
Perfluorohexanesulfonic acid (PFHxS)	0.70	J	33.0	33.8		ng/L		100	40 - 160	1	20
Perfluoroheptanesulfonic Acid (PFHpS)	1.8	U	34.5	37.6		ng/L		109	40 - 160	6	30
Perfluorooctanesulfonic acid (PFOS)	2.1	B	33.7	35.3		ng/L		99	40 - 160	2	20
Perfluorodecanesulfonic acid (PFDS)	1.8	U	35.0	33.3		ng/L		95	40 - 160	1	30
Perfluorooctanesulfonamide (PFOSA)	1.8	U	36.3	37.0		ng/L		102	40 - 160	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.6	U	36.3	35.2		ng/L		97	40 - 160	3	20
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.6	U	36.3	35.6		ng/L		98	40 - 160	4	20
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.6	U	34.4	31.8		ng/L		92	40 - 160	1	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.8	U	34.7	36.4		ng/L		105	40 - 160	2	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
18O2 PFHxS	112		50 - 150
13C4 PFHpA	100		50 - 150
13C4 PFOA	102		50 - 150
13C4 PFOS	110		50 - 150
13C5 PFNA	103		50 - 150
13C4 PFBA	79		25 - 150

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-190358-1 MSD
Matrix: Water
Analysis Batch: 172482

Client Sample ID: MW-PAR-01-09302021
Prep Type: Total/NA
Prep Batch: 172270

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C2 PFHxA	94		50 - 150
13C2 PFDA	103		50 - 150
13C2 PFUnA	96		50 - 150
13C2 PFDoA	95		50 - 150
13C8 FOSA	101		25 - 150
13C5 PFPeA	97		25 - 150
13C2 PFTeDA	98		50 - 150
d3-NMeFOSAA	97		50 - 150
d5-NEtFOSAA	90		50 - 150
M2-6:2 FTS	142		25 - 150
M2-8:2 FTS	133		25 - 150
13C3 PFBS	112		50 - 150

GC/MS VOA

Analysis Batch: 599315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190358-1	MW-PAR-01-09302021	Total/NA	Water	8260C	
480-190358-2	BD-09302021	Total/NA	Water	8260C	
480-190358-3	MW-09D-09302021	Total/NA	Water	8260C	
480-190358-4	MW-08D-09302021	Total/NA	Water	8260C	
480-190358-5	MW-PAR-02-09302021	Total/NA	Water	8260C	
480-190358-6	MW-01B-0930201	Total/NA	Water	8260C	
480-190358-7	MW-10D-0930201	Total/NA	Water	8260C	
480-190358-8	EB-09302021	Total/NA	Water	8260C	
480-190358-9	TB1-09302021	Total/NA	Water	8260C	
480-190358-10	TB2-09302021	Total/NA	Water	8260C	
MB 480-599315/8	Method Blank	Total/NA	Water	8260C	
LCS 480-599315/6	Lab Control Sample	Total/NA	Water	8260C	
480-190358-1 MS	MW-PAR-01-09302021	Total/NA	Water	8260C	
480-190358-1 MSD	MW-PAR-01-09302021	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 598871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190358-1	MW-PAR-01-09302021	Total/NA	Water	3510C	
480-190358-1 - DL	MW-PAR-01-09302021	Total/NA	Water	3510C	
480-190358-2	BD-09302021	Total/NA	Water	3510C	
480-190358-2 - DL	BD-09302021	Total/NA	Water	3510C	
480-190358-3 - DL	MW-09D-09302021	Total/NA	Water	3510C	
480-190358-3	MW-09D-09302021	Total/NA	Water	3510C	
480-190358-4 - DL	MW-08D-09302021	Total/NA	Water	3510C	
480-190358-4	MW-08D-09302021	Total/NA	Water	3510C	
480-190358-5	MW-PAR-02-09302021	Total/NA	Water	3510C	
480-190358-5 - DL	MW-PAR-02-09302021	Total/NA	Water	3510C	
480-190358-6	MW-01B-0930201	Total/NA	Water	3510C	
480-190358-7	MW-10D-0930201	Total/NA	Water	3510C	
480-190358-7 - DL	MW-10D-0930201	Total/NA	Water	3510C	
480-190358-8	EB-09302021	Total/NA	Water	3510C	
MB 480-598871/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-598871/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-598871/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
480-190358-1 MS	MW-PAR-01-09302021	Total/NA	Water	3510C	
480-190358-1 MS - DL	MW-PAR-01-09302021	Total/NA	Water	3510C	
480-190358-1 MSD	MW-PAR-01-09302021	Total/NA	Water	3510C	
480-190358-1 MSD - DL	MW-PAR-01-09302021	Total/NA	Water	3510C	

Prep Batch: 598946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190358-1	MW-PAR-01-09302021	Total/NA	Water	3510C	
480-190358-2	BD-09302021	Total/NA	Water	3510C	
480-190358-3	MW-09D-09302021	Total/NA	Water	3510C	
480-190358-4	MW-08D-09302021	Total/NA	Water	3510C	
480-190358-5	MW-PAR-02-09302021	Total/NA	Water	3510C	
480-190358-6	MW-01B-0930201	Total/NA	Water	3510C	
480-190358-7	MW-10D-0930201	Total/NA	Water	3510C	
480-190358-8	EB-09302021	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 598946 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-598946/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-598946/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-190358-1 MS	MW-PAR-01-09302021	Total/NA	Water	3510C	
480-190358-1 MSD	MW-PAR-01-09302021	Total/NA	Water	3510C	

Analysis Batch: 599026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190358-1	MW-PAR-01-09302021	Total/NA	Water	8270D SIM ID	598946
480-190358-2	BD-09302021	Total/NA	Water	8270D SIM ID	598946
480-190358-3	MW-09D-09302021	Total/NA	Water	8270D SIM ID	598946
480-190358-4	MW-08D-09302021	Total/NA	Water	8270D SIM ID	598946
480-190358-5	MW-PAR-02-09302021	Total/NA	Water	8270D SIM ID	598946
480-190358-6	MW-01B-0930201	Total/NA	Water	8270D SIM ID	598946
480-190358-7	MW-10D-0930201	Total/NA	Water	8270D SIM ID	598946
480-190358-8	EB-09302021	Total/NA	Water	8270D SIM ID	598946
MB 480-598946/1-A	Method Blank	Total/NA	Water	8270D SIM ID	598946
LCS 480-598946/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	598946
480-190358-1 MS	MW-PAR-01-09302021	Total/NA	Water	8270D SIM ID	598946
480-190358-1 MSD	MW-PAR-01-09302021	Total/NA	Water	8270D SIM ID	598946

Analysis Batch: 599414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190358-1	MW-PAR-01-09302021	Total/NA	Water	8270D	598871
480-190358-2	BD-09302021	Total/NA	Water	8270D	598871
480-190358-3	MW-09D-09302021	Total/NA	Water	8270D	598871
480-190358-4	MW-08D-09302021	Total/NA	Water	8270D	598871
480-190358-5	MW-PAR-02-09302021	Total/NA	Water	8270D	598871
480-190358-6	MW-01B-0930201	Total/NA	Water	8270D	598871
480-190358-7	MW-10D-0930201	Total/NA	Water	8270D	598871
480-190358-8	EB-09302021	Total/NA	Water	8270D	598871
MB 480-598871/1-A	Method Blank	Total/NA	Water	8270D	598871
LCS 480-598871/2-A	Lab Control Sample	Total/NA	Water	8270D	598871
LCSD 480-598871/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	598871
480-190358-1 MS	MW-PAR-01-09302021	Total/NA	Water	8270D	598871
480-190358-1 MSD	MW-PAR-01-09302021	Total/NA	Water	8270D	598871

Analysis Batch: 599621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190358-1 - DL	MW-PAR-01-09302021	Total/NA	Water	8270D	598871
480-190358-2 - DL	BD-09302021	Total/NA	Water	8270D	598871
480-190358-3 - DL	MW-09D-09302021	Total/NA	Water	8270D	598871
480-190358-4 - DL	MW-08D-09302021	Total/NA	Water	8270D	598871
480-190358-5 - DL	MW-PAR-02-09302021	Total/NA	Water	8270D	598871
480-190358-7 - DL	MW-10D-0930201	Total/NA	Water	8270D	598871
480-190358-1 MS - DL	MW-PAR-01-09302021	Total/NA	Water	8270D	598871
480-190358-1 MSD - DL	MW-PAR-01-09302021	Total/NA	Water	8270D	598871

QC Association Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190358-1

LCMS

Prep Batch: 172270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190358-1	MW-PAR-01-09302021	Total/NA	Water	3535	
480-190358-2	BD-09302021	Total/NA	Water	3535	
480-190358-3	MW-09D-09302021	Total/NA	Water	3535	
480-190358-4	MW-08D-09302021	Total/NA	Water	3535	
480-190358-5	MW-PAR-02-09302021	Total/NA	Water	3535	
480-190358-6	MW-01B-0930201	Total/NA	Water	3535	
480-190358-7	MW-10D-0930201	Total/NA	Water	3535	
480-190358-8	EB-09302021	Total/NA	Water	3535	
MB 200-172270/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-172270/2-A	Lab Control Sample	Total/NA	Water	3535	
480-190358-1 MS	MW-PAR-01-09302021	Total/NA	Water	3535	
480-190358-1 MSD	MW-PAR-01-09302021	Total/NA	Water	3535	

Analysis Batch: 172482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190358-1	MW-PAR-01-09302021	Total/NA	Water	537 (modified)	172270
480-190358-2	BD-09302021	Total/NA	Water	537 (modified)	172270
480-190358-3	MW-09D-09302021	Total/NA	Water	537 (modified)	172270
480-190358-4	MW-08D-09302021	Total/NA	Water	537 (modified)	172270
480-190358-5	MW-PAR-02-09302021	Total/NA	Water	537 (modified)	172270
480-190358-6	MW-01B-0930201	Total/NA	Water	537 (modified)	172270
480-190358-7	MW-10D-0930201	Total/NA	Water	537 (modified)	172270
480-190358-8	EB-09302021	Total/NA	Water	537 (modified)	172270
MB 200-172270/1-A	Method Blank	Total/NA	Water	537 (modified)	172270
LCS 200-172270/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	172270
480-190358-1 MS	MW-PAR-01-09302021	Total/NA	Water	537 (modified)	172270
480-190358-1 MSD	MW-PAR-01-09302021	Total/NA	Water	537 (modified)	172270

Lab Chronicle

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190358-1

Client Sample ID: MW-PAR-01-09302021

Lab Sample ID: 480-190358-1

Date Collected: 09/30/21 11:45
Matrix: Water
Date Received: 10/01/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	599315	10/07/21 05:46	ATG	TAL BUF
Total/NA	Prep	3510C			598871	10/04/21 09:17	JMP	TAL BUF
Total/NA	Analysis	8270D		1	599414	10/07/21 18:44	JMM	TAL BUF
Total/NA	Prep	3510C	DL		598871	10/04/21 09:17	JMP	TAL BUF
Total/NA	Analysis	8270D	DL	10	599621	10/08/21 17:21	JMM	TAL BUF
Total/NA	Prep	3510C			598946	10/04/21 15:04	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	599026	10/05/21 13:20	IMZ	TAL BUF
Total/NA	Prep	3535			172270	10/06/21 10:31	CM	TAL BUR
Total/NA	Analysis	537 (modified)		1	172482	10/11/21 19:02	BWC	TAL BUR

Client Sample ID: BD-09302021

Lab Sample ID: 480-190358-2

Date Collected: 09/30/21 12:01
Matrix: Water
Date Received: 10/01/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	599315	10/07/21 06:09	ATG	TAL BUF
Total/NA	Prep	3510C			598871	10/04/21 09:17	JMP	TAL BUF
Total/NA	Analysis	8270D		1	599414	10/07/21 19:11	JMM	TAL BUF
Total/NA	Prep	3510C	DL		598871	10/04/21 09:17	JMP	TAL BUF
Total/NA	Analysis	8270D	DL	10	599621	10/08/21 17:49	JMM	TAL BUF
Total/NA	Prep	3510C			598946	10/04/21 15:04	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	599026	10/05/21 14:07	IMZ	TAL BUF
Total/NA	Prep	3535			172270	10/06/21 10:31	CM	TAL BUR
Total/NA	Analysis	537 (modified)		1	172482	10/11/21 19:27	BWC	TAL BUR

Client Sample ID: MW-09D-09302021

Lab Sample ID: 480-190358-3

Date Collected: 09/30/21 13:55
Matrix: Water
Date Received: 10/01/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	599315	10/07/21 06:33	ATG	TAL BUF
Total/NA	Prep	3510C			598871	10/04/21 09:17	JMP	TAL BUF
Total/NA	Analysis	8270D		5	599414	10/07/21 19:38	JMM	TAL BUF
Total/NA	Prep	3510C	DL		598871	10/04/21 09:17	JMP	TAL BUF
Total/NA	Analysis	8270D	DL	500	599621	10/08/21 18:16	JMM	TAL BUF
Total/NA	Prep	3510C			598946	10/04/21 15:04	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	599026	10/05/21 14:31	IMZ	TAL BUF
Total/NA	Prep	3535			172270	10/06/21 10:31	CM	TAL BUR
Total/NA	Analysis	537 (modified)		1	172482	10/11/21 19:35	BWC	TAL BUR

Client Sample ID: MW-08D-09302021

Lab Sample ID: 480-190358-4

Date Collected: 09/30/21 15:30

Matrix: Water

Date Received: 10/01/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	599315	10/07/21 08:39	ATG	TAL BUF
Total/NA	Prep	3510C			598871	10/04/21 09:17	JMP	TAL BUF
Total/NA	Analysis	8270D		1	599414	10/07/21 20:05	JMM	TAL BUF
Total/NA	Prep	3510C	DL		598871	10/04/21 09:17	JMP	TAL BUF
Total/NA	Analysis	8270D	DL	200	599621	10/08/21 18:43	JMM	TAL BUF
Total/NA	Prep	3510C			598946	10/04/21 15:04	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	599026	10/05/21 14:54	IMZ	TAL BUF
Total/NA	Prep	3535			172270	10/06/21 10:31	CM	TAL BUR
Total/NA	Analysis	537 (modified)		1	172482	10/11/21 19:43	BWC	TAL BUR

Client Sample ID: MW-PAR-02-09302021

Lab Sample ID: 480-190358-5

Date Collected: 09/30/21 11:50

Matrix: Water

Date Received: 10/01/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	599315	10/07/21 09:02	ATG	TAL BUF
Total/NA	Prep	3510C			598871	10/04/21 09:17	JMP	TAL BUF
Total/NA	Analysis	8270D		1	599414	10/07/21 20:32	JMM	TAL BUF
Total/NA	Prep	3510C	DL		598871	10/04/21 09:17	JMP	TAL BUF
Total/NA	Analysis	8270D	DL	50	599621	10/08/21 19:10	JMM	TAL BUF
Total/NA	Prep	3510C			598946	10/04/21 15:04	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	599026	10/05/21 15:18	IMZ	TAL BUF
Total/NA	Prep	3535			172270	10/06/21 10:31	CM	TAL BUR
Total/NA	Analysis	537 (modified)		1	172482	10/11/21 19:52	BWC	TAL BUR

Client Sample ID: MW-01B-0930201

Lab Sample ID: 480-190358-6

Date Collected: 09/30/21 14:00

Matrix: Water

Date Received: 10/01/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	599315	10/07/21 09:25	ATG	TAL BUF
Total/NA	Prep	3510C			598871	10/04/21 09:17	JMP	TAL BUF
Total/NA	Analysis	8270D		1	599414	10/07/21 20:59	JMM	TAL BUF
Total/NA	Prep	3510C			598946	10/04/21 15:04	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	599026	10/05/21 15:42	IMZ	TAL BUF
Total/NA	Prep	3535			172270	10/06/21 10:31	CM	TAL BUR
Total/NA	Analysis	537 (modified)		1	172482	10/11/21 20:00	BWC	TAL BUR

Client Sample ID: MW-10D-0930201

Lab Sample ID: 480-190358-7

Date Collected: 09/30/21 16:35

Matrix: Water

Date Received: 10/01/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	599315	10/07/21 09:48	ATG	TAL BUF

Lab Chronicle

Client: Parsons Corporation
Job ID: 480-190358-1
Project/Site: Avangrid - Clark Street

Client Sample ID: MW-10D-0930201
Lab Sample ID: 480-190358-7
Date Collected: 09/30/21 16:35
Matrix: Water
Date Received: 10/01/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			598871	10/04/21 09:17	JMP	TAL BUF
Total/NA	Analysis	8270D		1	599414	10/07/21 21:26	JMM	TAL BUF
Total/NA	Prep	3510C	DL		598871	10/04/21 09:17	JMP	TAL BUF
Total/NA	Analysis	8270D	DL	200	599621	10/08/21 19:37	JMM	TAL BUF
Total/NA	Prep	3510C			598946	10/04/21 15:04	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	599026	10/05/21 16:05	IMZ	TAL BUF
Total/NA	Prep	3535			172270	10/06/21 10:31	CM	TAL BUR
Total/NA	Analysis	537 (modified)		1	172482	10/11/21 20:08	BWC	TAL BUR

Client Sample ID: EB-09302021
Lab Sample ID: 480-190358-8
Date Collected: 09/30/21 16:30
Matrix: Water
Date Received: 10/01/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	599315	10/07/21 10:11	ATG	TAL BUF
Total/NA	Prep	3510C			598871	10/04/21 09:17	JMP	TAL BUF
Total/NA	Analysis	8270D		1	599414	10/07/21 21:53	JMM	TAL BUF
Total/NA	Prep	3510C			598946	10/04/21 15:04	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	599026	10/05/21 16:29	IMZ	TAL BUF
Total/NA	Prep	3535			172270	10/06/21 10:31	CM	TAL BUR
Total/NA	Analysis	537 (modified)		1	172482	10/11/21 20:16	BWC	TAL BUR

Client Sample ID: TB1-09302021
Lab Sample ID: 480-190358-9
Date Collected: 09/30/21 10:00
Matrix: Water
Date Received: 10/01/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	599315	10/07/21 10:35	ATG	TAL BUF

Client Sample ID: TB2-09302021
Lab Sample ID: 480-190358-10
Date Collected: 09/30/21 10:05
Matrix: Water
Date Received: 10/01/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	599315	10/07/21 10:58	ATG	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Parsons Corporation
Job ID: 480-190358-1
Project/Site: Avangrid - Clark Street

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	Total BTEX

Laboratory: Eurofins TestAmerica, Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10391	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Water	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)
537 (modified)	3535	Water	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)
537 (modified)	3535	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctanesulfonamide (PFOSA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic acid (PFTriA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190358-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190358-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-190358-1	MW-PAR-01-09302021	Water	09/30/21 11:45	10/01/21 10:00
480-190358-2	BD-09302021	Water	09/30/21 12:01	10/01/21 10:00
480-190358-3	MW-09D-09302021	Water	09/30/21 13:55	10/01/21 10:00
480-190358-4	MW-08D-09302021	Water	09/30/21 15:30	10/01/21 10:00
480-190358-5	MW-PAR-02-09302021	Water	09/30/21 11:50	10/01/21 10:00
480-190358-6	MW-01B-0930201	Water	09/30/21 14:00	10/01/21 10:00
480-190358-7	MW-10D-0930201	Water	09/30/21 16:35	10/01/21 10:00
480-190358-8	EB-09302021	Water	09/30/21 16:30	10/01/21 10:00
480-190358-9	TB1-09302021	Water	09/30/21 10:00	10/01/21 10:00
480-190358-10	TB2-09302021	Water	09/30/21 10:05	10/01/21 10:00

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Zack Cornish	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-166078-36391.1
Client Contact: Cathy Adamitis	Phone: 607-354-6482	E-Mail: John.Schove@Eurofinset.com	State of Origin:	Page: Page 1 of 2
Company: Parsons Corporation	PWSID:			Job #:
Address: 301 Plainfield Road Suite 350	Due Date Requested:			
City: Syracuse	TAT Requested (days): 28 Day			
State, Zip: NY, 13212	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 452562.452563..60214.07			
Email: catherine.adamitis@parsons.com	WO #: 45262.03000			
Project Name: Avangrid - Clark Street	Project #: 48024389			
Site: 211 Clark St	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL M - Hexane
B - NaOH N - None
C - Zn Acetate O - AsNaO2
D - Nitric Acid P - Na2O4S

480-190358 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Standard List (21 analytes)	8260C - BTEX	8270D - PAH Semivolatiles	8270D_SIM_MS_ID - 1,4 Dioxane	Total Number of	Special Instructions/Note:
Preservation Code:							N	A	N	N		
MW-PAR-01-09302021	9/30/21	1145	G	Water	N	Y	2	3	2	2	9	
MW-PAR-01-09302021 MS	9/30/21	1145	G	Water	N	Y	2	3	2	2	9	
MW-PAR-01-09302021 MSD	9/30/21	1145	G	Water	N	Y	2	3	2	2	9	
BD-09302021	9/30/21	1201	G	Water	N	N	2	3	2	2	9	
MW-09D-09302021	9/30/21	1355	G	Water	N	N	2	3	2	2	9	
MW-08D-09302021	9/30/21	1530	G	Water	N	N	2	3	2	2	9	
MW-PAR-02-09302021	9/30/21	1150	G	Water	N	N	2	3	2	2	9	
MW-01B-09302021	9/30/21	1400	G	Water	N	N	2	3	2	2	9	
MW-10D-09302021	9/30/21	1635	G	Water	N	N	2	3	2	2	9	
EB-09302021	9/30/21	1636	G	Water	N	N	2	3	2	2	9	
TB1-09302021	9/30/21	1000	G	Water	N	N		2			2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Zach Cornish	9/30/21 / 1900	Parsons	Cuddale	10/1/21 1000	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		#1 3.6, 2.7, 3.1

Ver: 06/08/2021

10/12/2021

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Zack Cornish	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-166078-36391.2
Client Contact: Cathy Adamitis	Phone: 607-354-6482	E-Mail: John.Schove@Eurofinset.com	State of Origin:	Page: Page 2 of 2
Company: Parsons Corporation	PWSID:			Job #:
Address: 301 Plainfield Road Suite 350	Due Date Requested:			
City: Syracuse	TAT Requested (days): 28 Day			
State, Zip: NY, 13212	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 452562.452563 60214.07			
Email: catherine.adamitis@parsons.com	WO #: 45262.03000			
Project Name: Avangrid - Clark Street	Project #: 48024389			
Site: 211 Clark St	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Standard List (21 analytes)	8260C - BTEX	8270D - PAH Semivolatiles	8270D_SIM_MS_ID - 1,4 Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	N	N		
TB2 - 09302024	9130/21	1005	G	Water	N	N		2			2	
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Zack Cornish	9130/21 / 1900	Parsons	Catherine	10/1/21 1000	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

10/12/2021

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

480-190358 Chain of Custody

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R		COC No: 480-66809.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Schove@Eurofinset.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-190358-1
Address: 530 Community Drive, Suite 11,	Due Date Requested: 10/14/2021			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:			
Email:	WO #:			
Project Name: Avangrid - Clark Street	Project #: 48024389			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_IVWT PFAS, Standard List (21 analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-PAR-01-09302021 (480-190358-1)	9/30/21	11:45 Eastern		Water			X	2	
MW-PAR-01-09302021 (480-190358-1MS)	9/30/21	11:45 Eastern	MS	Water			X	2	
MW-PAR-01-09302021 (480-190358-1MSD)	9/30/21	11:45 Eastern	MSD	Water			X	2	
BD-09302021 (480-190358-2)	9/30/21	12:01 Eastern		Water			X	2	
MW-09D-09302021 (480-190358-3)	9/30/21	13:55 Eastern		Water			X	2	
MW-08D-09302021 (480-190358-4)	9/30/21	15:30 Eastern		Water			X	2	
MW-PAR-02-09302021 (480-190358-5)	9/30/21	11:50 Eastern		Water			X	2	
MW-01B-0930201 (480-190358-6)	9/30/21	14:00 Eastern		Water			X	2	
MW-10D-0930201 (480-190358-7)	9/30/21	16:35 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ______ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Jonathan Lucas	Date/Time: 10/01/21 1700	Company: TA	Received by: Norman I Sotto	Date/Time: 10/2/21 1000	Company: EET-Buf
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 06/08/2021

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-66809.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Schove@Eurofinset.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-190358-1
Address: 530 Community Drive, Suite 11,	Due Date Requested: 10/14/2021			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:			
Email:	WO #:			
Project Name: Avangrid - Clark Street	Project #: 48024389			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_IVWT PFAS, Standard List (21 analytes)	Total Number of containers	Special Instructions/Note:
				Preservation Code:					
EB-09302021 (480-190358-8)	9/30/21	16:30 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ______ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

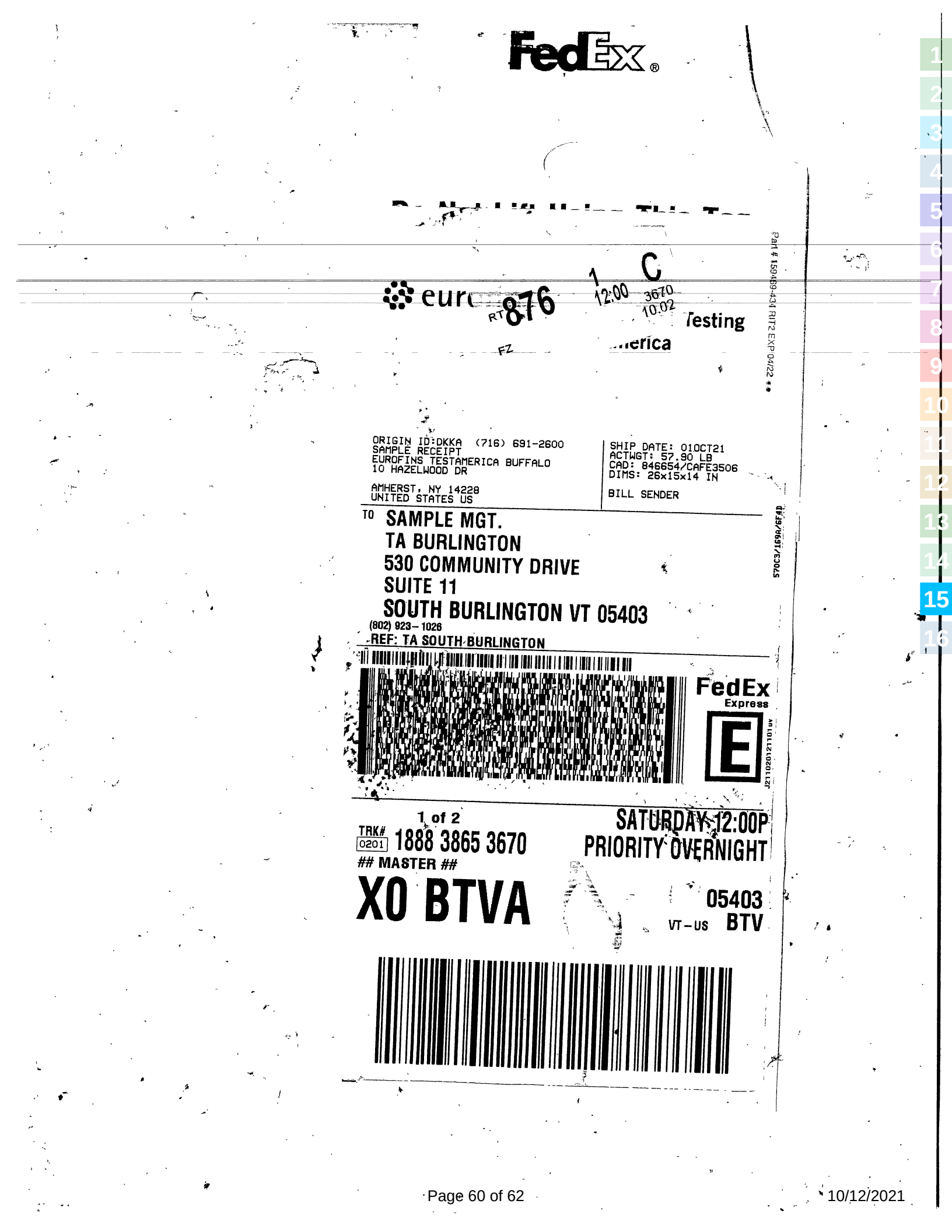
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
PSI			McOwnel Scho	10/2/21 1000	ETA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021


FedEx
RT 876
12:00
3670
10.02
Testing
FZ
Part # 159459-434 RIT2 EXP 04/22
ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS TESTAMERICA BUFFALO
10 HAZELWOOD DR
AMHERST, NY 14228
UNITED STATES US
SHIP DATE: 01OCT21
ACTWGT: 57.90 LB
CAD: 846654/CAFE3506
DIMS: 26x15x14 IN
BILL SENDER
TO SAMPLE MGT.
TA BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1026
REF: TA SOUTH BURLINGTON
570C3/169A/6FAD
FedEx
Express
1 of 2
TRK# 0201 1888 3865 3670
MASTER
XO BTVA
SATURDAY 12:00P
PRIORITY OVERNIGHT
05403
VT-US BTV

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-190358-1

Login Number: 190358
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	PARSONS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-190358-1

Login Number: 190358
List Number: 2
Creator: Beane, John P

List Source: Eurofins TestAmerica, Burlington
List Creation: 10/02/21 11:24 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1512730
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-190600-1
Client Project/Site: Avangrid - Clark Street

For:
Parsons Corporation
301 Plainfield Road
Suite 350
Syracuse, New York 13212

Attn: Cathy Adamitis

Authorized for release by:
10/20/2021 4:31:04 PM

John Schove, Project Manager II
(716)504-9838
John.Schove@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-190600-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-190600-1

Comments
No additional comments.

Receipt
The samples were received on 10/7/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9º C.

GC/MS VOA
Method 8260C: The following samples were diluted due to the nature of the TCLP solid sample matrix: IDW-03-10062021 (480-190600-1), IDW-04-10062021 (480-190600-2), IDW-05-10062021 (480-190600-3), IDW-06-10062021 (480-190600-4), IDW-07-10062021 (480-190600-5), IDW-08-10062021 (480-190600-6), (LB 480-599811/1-A), (480-190600-A-6-A MS) and (480-190600-A-6-A MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-600212 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: IDW-03-10062021 (480-190600-1), IDW-04-10062021 (480-190600-2), IDW-05-10062021 (480-190600-3), IDW-06-10062021 (480-190600-4), IDW-07-10062021 (480-190600-5) and IDW-08-10062021 (480-190600-6).

Method 8270D: The laboratory control sample (LCS) for preparation batch 480-599813 and 480-600108 and analytical batch 480-600212 recovered outside control limits for the following analytes: Pentachlorophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8151A: Surrogate recovery for the following samples were outside control limits: IDW-03-10062021 (480-190600-1), IDW-04-10062021 (480-190600-2), IDW-05-10062021 (480-190600-3), IDW-06-10062021 (480-190600-4), IDW-07-10062021 (480-190600-5) and IDW-08-10062021 (480-190600-6). This is routine for TCLP herbicides, due to the pH effects created during the leaching process, inhibiting the herbicide derivatization of the free acid components.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Methods 9045C, 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: IDW-03-10062021 (480-190600-1), IDW-04-10062021 (480-190600-2), IDW-05-10062021 (480-190600-3), IDW-06-10062021 (480-190600-4), IDW-07-10062021 (480-190600-5) and IDW-08-10062021 (480-190600-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 8151A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-599813 and 480-599980.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

Client Sample ID: IDW-03-10062021 — Lab Sample ID: 480-190600-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.018		0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.26	J	1.0	0.10	mg/L	1		6010C	TCLP
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.3	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.1	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: IDW-04-10062021 — Lab Sample ID: 480-190600-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0078	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.38	J	1.0	0.10	mg/L	1		6010C	TCLP
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.3	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.3	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: IDW-05-10062021 — Lab Sample ID: 480-190600-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0078	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	0.20	J	1.0	0.10	mg/L	1		6010C	TCLP
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.1	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.3	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: IDW-06-10062021 — Lab Sample ID: 480-190600-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.012	J	0.015	0.0056	mg/L	1		6010C	TCLP
Barium	1.0		1.0	0.10	mg/L	1		6010C	TCLP
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.3	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.0	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: IDW-07-10062021 — Lab Sample ID: 480-190600-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.28	J	1.0	0.10	mg/L	1		6010C	TCLP
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	9.7	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.0	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: IDW-08-10062021 — Lab Sample ID: 480-190600-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.30	J	1.0	0.10	mg/L	1		6010C	TCLP
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.8	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.1	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

Client Sample ID: IDW-03-10062021

Date Collected: 10/06/21 13:00
Date Received: 10/07/21 10:00

Lab Sample ID: 480-190600-1

Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.010	U	0.010	0.0029	mg/L			10/14/21 07:32	10
1,2-Dichloroethane	0.010	U	0.010	0.0021	mg/L			10/14/21 07:32	10
2-Butanone (MEK)	0.050	U	0.050	0.013	mg/L			10/14/21 07:32	10
Benzene	0.010	U	0.010	0.0041	mg/L			10/14/21 07:32	10
Carbon tetrachloride	0.010	U	0.010	0.0027	mg/L			10/14/21 07:32	10
Chlorobenzene	0.010	U	0.010	0.0075	mg/L			10/14/21 07:32	10
Chloroform	0.010	U	0.010	0.0034	mg/L			10/14/21 07:32	10
Tetrachloroethene	0.010	U	0.010	0.0036	mg/L			10/14/21 07:32	10
Trichloroethene	0.010	U	0.010	0.0046	mg/L			10/14/21 07:32	10
Vinyl chloride	0.010	U	0.010	0.0090	mg/L			10/14/21 07:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*10/14/21 07:32*	*10*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*10/14/21 07:32*	*10*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*10/14/21 07:32*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/14/21 07:32*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.040	U	0.040	0.0018	mg/L		10/12/21 14:33	10/13/21 14:20	1
2,4,5-Trichlorophenol	0.020	U	0.020	0.0019	mg/L		10/12/21 14:33	10/13/21 14:20	1
2,4,6-Trichlorophenol	0.020	U	0.020	0.0024	mg/L		10/12/21 14:33	10/13/21 14:20	1
2,4-Dinitrotoluene	0.020	U	0.020	0.0017	mg/L		10/12/21 14:33	10/13/21 14:20	1
2-Methylphenol	0.020	U	0.020	0.0016	mg/L		10/12/21 14:33	10/13/21 14:20	1
3-Methylphenol	0.040	U	0.040	0.0016	mg/L		10/12/21 14:33	10/13/21 14:20	1
4-Methylphenol	0.040	U	0.040	0.0014	mg/L		10/12/21 14:33	10/13/21 14:20	1
Hexachlorobenzene	0.020	U	0.020	0.0020	mg/L		10/12/21 14:33	10/13/21 14:20	1
Hexachlorobutadiene	0.020	U	0.020	0.0027	mg/L		10/12/21 14:33	10/13/21 14:20	1
Hexachloroethane	0.020	U	0.020	0.0023	mg/L		10/12/21 14:33	10/13/21 14:20	1
Nitrobenzene	0.020	U	0.020	0.0011	mg/L		10/12/21 14:33	10/13/21 14:20	1
Pentachlorophenol	0.040	U *+	0.040	0.0088	mg/L		10/12/21 14:33	10/13/21 14:20	1
Pyridine	0.10	U	0.10	0.0016	mg/L		10/12/21 14:33	10/13/21 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*95*		*41 - 120*	*10/12/21 14:33*	*10/13/21 14:20*	*1*
2-Fluorobiphenyl	*81*		*48 - 120*	*10/12/21 14:33*	*10/13/21 14:20*	*1*
2-Fluorophenol	*44*		*35 - 120*	*10/12/21 14:33*	*10/13/21 14:20*	*1*
Nitrobenzene-d5 (Surr)	*77*		*46 - 120*	*10/12/21 14:33*	*10/13/21 14:20*	*1*
Phenol-d5	*31*		*22 - 120*	*10/12/21 14:33*	*10/13/21 14:20*	*1*
p-Terphenyl-d14 (Surr)	*97*		*60 - 148*	*10/12/21 14:33*	*10/13/21 14:20*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0020	U	0.0020	0.000029	mg/L		10/12/21 14:26	10/13/21 10:40	1
Endrin	0.00020	U	0.00020	0.000014	mg/L		10/12/21 14:26	10/13/21 10:40	1
gamma-BHC (Lindane)	0.00020	U	0.00020	0.0000060	mg/L		10/12/21 14:26	10/13/21 10:40	1
Heptachlor	0.00020	U	0.00020	0.0000085	mg/L		10/12/21 14:26	10/13/21 10:40	1
Heptachlor epoxide	0.00020	U	0.00020	0.0000053	mg/L		10/12/21 14:26	10/13/21 10:40	1
Methoxychlor	0.00020	U	0.00020	0.000014	mg/L		10/12/21 14:26	10/13/21 10:40	1
Toxaphene	0.0020	U	0.0020	0.00012	mg/L		10/12/21 14:26	10/13/21 10:40	1

Client Sample ID: IDW-03-10062021

Date Collected: 10/06/21 13:00
Date Received: 10/07/21 10:00

Lab Sample ID: 480-190600-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*		*20 - 120*	*10/12/21 14:26*	*10/13/21 10:40*	*1*
DCB Decachlorobiphenyl	*76*		*20 - 120*	*10/12/21 14:26*	*10/13/21 10:40*	*1*
Tetrachloro-m-xylene	*92*		*44 - 120*	*10/12/21 14:26*	*10/13/21 10:40*	*1*
Tetrachloro-m-xylene	*67*		*44 - 120*	*10/12/21 14:26*	*10/13/21 10:40*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0020	U	0.0020	0.00040	mg/L		10/12/21 10:31	10/13/21 16:20	1
Silvex (2,4,5-TP)	0.0020	U	0.0020	0.00036	mg/L		10/12/21 10:31	10/13/21 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*22*	*S1-*	*48 - 132*	*10/12/21 10:31*	*10/13/21 16:20*	*1*
2,4-Dichlorophenylacetic acid	*35*	*S1-*	*48 - 132*	*10/12/21 10:31*	*10/13/21 16:20*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.018**		0.015	0.0056	mg/L		10/12/21 10:28	10/13/21 15:15	1
Barium	**0.26**	**J**	1.0	0.10	mg/L		10/12/21 10:28	10/13/21 15:15	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		10/12/21 10:28	10/13/21 15:15	1
Chromium	0.020	U	0.020	0.010	mg/L		10/12/21 10:28	10/13/21 15:15	1
Lead	0.020	U	0.020	0.0030	mg/L		10/12/21 10:28	10/13/21 15:15	1
Selenium	0.025	U	0.025	0.0087	mg/L		10/12/21 10:28	10/13/21 15:15	1
Silver	0.0060	U	0.0060	0.0017	mg/L		10/12/21 10:28	10/13/21 15:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		10/12/21 14:04	10/12/21 18:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	10	U	10	10	mg/Kg		10/12/21 11:00	10/13/21 20:01	1
Sulfide, Reactive	10	U	10	10	mg/Kg		10/12/21 11:00	10/13/21 18:42	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		50.0	50.0	Degrees F			10/14/21 16:48	1
pH	**7.3**	**HF**	0.1	0.1	SU			10/13/21 15:00	1
Temperature	**18.1**	**HF**	0.001	0.001	Degrees C			10/13/21 15:00	1

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

Client Sample ID: IDW-04-10062021

Date Collected: 10/06/21 13:10
Date Received: 10/07/21 10:00

Lab Sample ID: 480-190600-2

Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.010	U	0.010	0.0029	mg/L			10/14/21 07:56	10
1,2-Dichloroethane	0.010	U	0.010	0.0021	mg/L			10/14/21 07:56	10
2-Butanone (MEK)	0.050	U	0.050	0.013	mg/L			10/14/21 07:56	10
Benzene	0.010	U	0.010	0.0041	mg/L			10/14/21 07:56	10
Carbon tetrachloride	0.010	U	0.010	0.0027	mg/L			10/14/21 07:56	10
Chlorobenzene	0.010	U	0.010	0.0075	mg/L			10/14/21 07:56	10
Chloroform	0.010	U	0.010	0.0034	mg/L			10/14/21 07:56	10
Tetrachloroethene	0.010	U	0.010	0.0036	mg/L			10/14/21 07:56	10
Trichloroethene	0.010	U	0.010	0.0046	mg/L			10/14/21 07:56	10
Vinyl chloride	0.010	U	0.010	0.0090	mg/L			10/14/21 07:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*10/14/21 07:56*	*10*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*10/14/21 07:56*	*10*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*10/14/21 07:56*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/14/21 07:56*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.040	U	0.040	0.0018	mg/L		10/12/21 14:33	10/13/21 14:44	1
2,4,5-Trichlorophenol	0.020	U	0.020	0.0019	mg/L		10/12/21 14:33	10/13/21 14:44	1
2,4,6-Trichlorophenol	0.020	U	0.020	0.0024	mg/L		10/12/21 14:33	10/13/21 14:44	1
2,4-Dinitrotoluene	0.020	U	0.020	0.0017	mg/L		10/12/21 14:33	10/13/21 14:44	1
2-Methylphenol	0.020	U	0.020	0.0016	mg/L		10/12/21 14:33	10/13/21 14:44	1
3-Methylphenol	0.040	U	0.040	0.0016	mg/L		10/12/21 14:33	10/13/21 14:44	1
4-Methylphenol	0.040	U	0.040	0.0014	mg/L		10/12/21 14:33	10/13/21 14:44	1
Hexachlorobenzene	0.020	U	0.020	0.0020	mg/L		10/12/21 14:33	10/13/21 14:44	1
Hexachlorobutadiene	0.020	U	0.020	0.0027	mg/L		10/12/21 14:33	10/13/21 14:44	1
Hexachloroethane	0.020	U	0.020	0.0023	mg/L		10/12/21 14:33	10/13/21 14:44	1
Nitrobenzene	0.020	U	0.020	0.0011	mg/L		10/12/21 14:33	10/13/21 14:44	1
Pentachlorophenol	0.040	U *+	0.040	0.0088	mg/L		10/12/21 14:33	10/13/21 14:44	1
Pyridine	0.10	U	0.10	0.0016	mg/L		10/12/21 14:33	10/13/21 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*99*		*41 - 120*	*10/12/21 14:33*	*10/13/21 14:44*	*1*
2-Fluorobiphenyl	*89*		*48 - 120*	*10/12/21 14:33*	*10/13/21 14:44*	*1*
2-Fluorophenol	*46*		*35 - 120*	*10/12/21 14:33*	*10/13/21 14:44*	*1*
Nitrobenzene-d5 (Surr)	*82*		*46 - 120*	*10/12/21 14:33*	*10/13/21 14:44*	*1*
Phenol-d5	*33*		*22 - 120*	*10/12/21 14:33*	*10/13/21 14:44*	*1*
p-Terphenyl-d14 (Surr)	*105*		*60 - 148*	*10/12/21 14:33*	*10/13/21 14:44*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0020	U	0.0020	0.000029	mg/L		10/12/21 14:26	10/13/21 11:00	1
Endrin	0.00020	U	0.00020	0.000014	mg/L		10/12/21 14:26	10/13/21 11:00	1
gamma-BHC (Lindane)	0.00020	U	0.00020	0.0000060	mg/L		10/12/21 14:26	10/13/21 11:00	1
Heptachlor	0.00020	U	0.00020	0.0000085	mg/L		10/12/21 14:26	10/13/21 11:00	1
Heptachlor epoxide	0.00020	U	0.00020	0.0000053	mg/L		10/12/21 14:26	10/13/21 11:00	1
Methoxychlor	0.00020	U	0.00020	0.000014	mg/L		10/12/21 14:26	10/13/21 11:00	1
Toxaphene	0.0020	U	0.0020	0.00012	mg/L		10/12/21 14:26	10/13/21 11:00	1

Client Sample ID: IDW-04-10062021

Date Collected: 10/06/21 13:10
Date Received: 10/07/21 10:00

Lab Sample ID: 480-190600-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*20 - 120*	*10/12/21 14:26*	*10/13/21 11:00*	*1*
DCB Decachlorobiphenyl	*70*		*20 - 120*	*10/12/21 14:26*	*10/13/21 11:00*	*1*
Tetrachloro-m-xylene	*83*		*44 - 120*	*10/12/21 14:26*	*10/13/21 11:00*	*1*
Tetrachloro-m-xylene	*53*		*44 - 120*	*10/12/21 14:26*	*10/13/21 11:00*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0020	U	0.0020	0.00040	mg/L		10/12/21 10:31	10/13/21 16:50	1
Silvex (2,4,5-TP)	0.0020	U	0.0020	0.00036	mg/L		10/12/21 10:31	10/13/21 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*45*	*S1-*	*48 - 132*	*10/12/21 10:31*	*10/13/21 16:50*	*1*
2,4-Dichlorophenylacetic acid	*43*	*S1-*	*48 - 132*	*10/12/21 10:31*	*10/13/21 16:50*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0078**	**J**	0.015	0.0056	mg/L		10/12/21 10:28	10/13/21 15:19	1
Barium	**0.38**	**J**	1.0	0.10	mg/L		10/12/21 10:28	10/13/21 15:19	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		10/12/21 10:28	10/13/21 15:19	1
Chromium	0.020	U	0.020	0.010	mg/L		10/12/21 10:28	10/13/21 15:19	1
Lead	0.020	U	0.020	0.0030	mg/L		10/12/21 10:28	10/13/21 15:19	1
Selenium	0.025	U	0.025	0.0087	mg/L		10/12/21 10:28	10/13/21 15:19	1
Silver	0.0060	U	0.0060	0.0017	mg/L		10/12/21 10:28	10/13/21 15:19	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		10/12/21 14:04	10/12/21 18:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	9.9	U	9.9	9.9	mg/Kg		10/12/21 11:00	10/13/21 20:03	1
Sulfide, Reactive	9.9	U	9.9	9.9	mg/Kg		10/12/21 11:00	10/13/21 18:42	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		50.0	50.0	Degrees F			10/14/21 16:48	1
pH	**8.3**	**HF**	0.1	0.1	SU			10/13/21 15:00	1
Temperature	**18.3**	**HF**	0.001	0.001	Degrees C			10/13/21 15:00	1

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

Client Sample ID: IDW-05-10062021

Date Collected: 10/06/21 13:20
Date Received: 10/07/21 10:00

Lab Sample ID: 480-190600-3

Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.010	U	0.010	0.0029	mg/L			10/14/21 08:19	10
1,2-Dichloroethane	0.010	U	0.010	0.0021	mg/L			10/14/21 08:19	10
2-Butanone (MEK)	0.050	U	0.050	0.013	mg/L			10/14/21 08:19	10
Benzene	0.010	U	0.010	0.0041	mg/L			10/14/21 08:19	10
Carbon tetrachloride	0.010	U	0.010	0.0027	mg/L			10/14/21 08:19	10
Chlorobenzene	0.010	U	0.010	0.0075	mg/L			10/14/21 08:19	10
Chloroform	0.010	U	0.010	0.0034	mg/L			10/14/21 08:19	10
Tetrachloroethene	0.010	U	0.010	0.0036	mg/L			10/14/21 08:19	10
Trichloroethene	0.010	U	0.010	0.0046	mg/L			10/14/21 08:19	10
Vinyl chloride	0.010	U	0.010	0.0090	mg/L			10/14/21 08:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*10/14/21 08:19*	*10*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*10/14/21 08:19*	*10*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*10/14/21 08:19*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/14/21 08:19*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.040	U	0.040	0.0018	mg/L		10/12/21 14:33	10/13/21 15:08	1
2,4,5-Trichlorophenol	0.020	U	0.020	0.0019	mg/L		10/12/21 14:33	10/13/21 15:08	1
2,4,6-Trichlorophenol	0.020	U	0.020	0.0024	mg/L		10/12/21 14:33	10/13/21 15:08	1
2,4-Dinitrotoluene	0.020	U	0.020	0.0017	mg/L		10/12/21 14:33	10/13/21 15:08	1
2-Methylphenol	0.020	U	0.020	0.0016	mg/L		10/12/21 14:33	10/13/21 15:08	1
3-Methylphenol	0.040	U	0.040	0.0016	mg/L		10/12/21 14:33	10/13/21 15:08	1
4-Methylphenol	0.040	U	0.040	0.0014	mg/L		10/12/21 14:33	10/13/21 15:08	1
Hexachlorobenzene	0.020	U	0.020	0.0020	mg/L		10/12/21 14:33	10/13/21 15:08	1
Hexachlorobutadiene	0.020	U	0.020	0.0027	mg/L		10/12/21 14:33	10/13/21 15:08	1
Hexachloroethane	0.020	U	0.020	0.0023	mg/L		10/12/21 14:33	10/13/21 15:08	1
Nitrobenzene	0.020	U	0.020	0.0011	mg/L		10/12/21 14:33	10/13/21 15:08	1
Pentachlorophenol	0.040	U *+	0.040	0.0088	mg/L		10/12/21 14:33	10/13/21 15:08	1
Pyridine	0.10	U	0.10	0.0016	mg/L		10/12/21 14:33	10/13/21 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*97*		*41 - 120*	*10/12/21 14:33*	*10/13/21 15:08*	*1*
2-Fluorobiphenyl	*89*		*48 - 120*	*10/12/21 14:33*	*10/13/21 15:08*	*1*
2-Fluorophenol	*52*		*35 - 120*	*10/12/21 14:33*	*10/13/21 15:08*	*1*
Nitrobenzene-d5 (Surr)	*84*		*46 - 120*	*10/12/21 14:33*	*10/13/21 15:08*	*1*
Phenol-d5	*35*		*22 - 120*	*10/12/21 14:33*	*10/13/21 15:08*	*1*
p-Terphenyl-d14 (Surr)	*105*		*60 - 148*	*10/12/21 14:33*	*10/13/21 15:08*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0020	U	0.0020	0.000029	mg/L		10/12/21 14:26	10/13/21 11:20	1
Endrin	0.00020	U	0.00020	0.000014	mg/L		10/12/21 14:26	10/13/21 11:20	1
gamma-BHC (Lindane)	0.00020	U	0.00020	0.0000060	mg/L		10/12/21 14:26	10/13/21 11:20	1
Heptachlor	0.00020	U	0.00020	0.0000085	mg/L		10/12/21 14:26	10/13/21 11:20	1
Heptachlor epoxide	0.00020	U	0.00020	0.0000053	mg/L		10/12/21 14:26	10/13/21 11:20	1
Methoxychlor	0.00020	U	0.00020	0.000014	mg/L		10/12/21 14:26	10/13/21 11:20	1
Toxaphene	0.0020	U	0.0020	0.00012	mg/L		10/12/21 14:26	10/13/21 11:20	1

Client Sample ID: IDW-05-10062021

Date Collected: 10/06/21 13:20
Date Received: 10/07/21 10:00

Lab Sample ID: 480-190600-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*20 - 120*	*10/12/21 14:26*	*10/13/21 11:20*	*1*
DCB Decachlorobiphenyl	*75*		*20 - 120*	*10/12/21 14:26*	*10/13/21 11:20*	*1*
Tetrachloro-m-xylene	*79*		*44 - 120*	*10/12/21 14:26*	*10/13/21 11:20*	*1*
Tetrachloro-m-xylene	*68*		*44 - 120*	*10/12/21 14:26*	*10/13/21 11:20*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0020	U	0.0020	0.00040	mg/L		10/12/21 10:31	10/13/21 17:19	1
Silvex (2,4,5-TP)	0.0020	U	0.0020	0.00036	mg/L		10/12/21 10:31	10/13/21 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*37*	*S1-*	*48 - 132*	*10/12/21 10:31*	*10/13/21 17:19*	*1*
2,4-Dichlorophenylacetic acid	*45*	*S1-*	*48 - 132*	*10/12/21 10:31*	*10/13/21 17:19*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0078**	**J**	0.015	0.0056	mg/L		10/12/21 10:28	10/13/21 15:50	1
Barium	**0.20**	**J**	1.0	0.10	mg/L		10/12/21 10:28	10/13/21 15:50	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		10/12/21 10:28	10/13/21 15:50	1
Chromium	0.020	U	0.020	0.010	mg/L		10/12/21 10:28	10/13/21 15:50	1
Lead	0.020	U	0.020	0.0030	mg/L		10/12/21 10:28	10/13/21 15:50	1
Selenium	0.025	U	0.025	0.0087	mg/L		10/12/21 10:28	10/13/21 15:50	1
Silver	0.0060	U	0.0060	0.0017	mg/L		10/12/21 10:28	10/13/21 15:50	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		10/12/21 14:04	10/12/21 18:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	9.9	U	9.9	9.9	mg/Kg		10/12/21 11:00	10/13/21 20:04	1
Sulfide, Reactive	9.9	U	9.9	9.9	mg/Kg		10/12/21 11:00	10/13/21 18:42	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		50.0	50.0	Degrees F			10/14/21 16:48	1
pH	**8.1**	**HF**	0.1	0.1	SU			10/13/21 15:00	1
Temperature	**18.3**	**HF**	0.001	0.001	Degrees C			10/13/21 15:00	1

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

Client Sample ID: IDW-06-10062021

Date Collected: 10/06/21 13:30
Date Received: 10/07/21 10:00

Lab Sample ID: 480-190600-4

Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.010	U	0.010	0.0029	mg/L			10/14/21 08:42	10
1,2-Dichloroethane	0.010	U	0.010	0.0021	mg/L			10/14/21 08:42	10
2-Butanone (MEK)	0.050	U	0.050	0.013	mg/L			10/14/21 08:42	10
Benzene	0.010	U	0.010	0.0041	mg/L			10/14/21 08:42	10
Carbon tetrachloride	0.010	U	0.010	0.0027	mg/L			10/14/21 08:42	10
Chlorobenzene	0.010	U	0.010	0.0075	mg/L			10/14/21 08:42	10
Chloroform	0.010	U	0.010	0.0034	mg/L			10/14/21 08:42	10
Tetrachloroethene	0.010	U	0.010	0.0036	mg/L			10/14/21 08:42	10
Trichloroethene	0.010	U	0.010	0.0046	mg/L			10/14/21 08:42	10
Vinyl chloride	0.010	U	0.010	0.0090	mg/L			10/14/21 08:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*10/14/21 08:42*	*10*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*10/14/21 08:42*	*10*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*10/14/21 08:42*	*10*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/14/21 08:42*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.040	U	0.040	0.0018	mg/L		10/12/21 14:33	10/13/21 15:32	1
2,4,5-Trichlorophenol	0.020	U	0.020	0.0019	mg/L		10/12/21 14:33	10/13/21 15:32	1
2,4,6-Trichlorophenol	0.020	U	0.020	0.0024	mg/L		10/12/21 14:33	10/13/21 15:32	1
2,4-Dinitrotoluene	0.020	U	0.020	0.0017	mg/L		10/12/21 14:33	10/13/21 15:32	1
2-Methylphenol	0.020	U	0.020	0.0016	mg/L		10/12/21 14:33	10/13/21 15:32	1
3-Methylphenol	0.040	U	0.040	0.0016	mg/L		10/12/21 14:33	10/13/21 15:32	1
4-Methylphenol	0.040	U	0.040	0.0014	mg/L		10/12/21 14:33	10/13/21 15:32	1
Hexachlorobenzene	0.020	U	0.020	0.0020	mg/L		10/12/21 14:33	10/13/21 15:32	1
Hexachlorobutadiene	0.020	U	0.020	0.0027	mg/L		10/12/21 14:33	10/13/21 15:32	1
Hexachloroethane	0.020	U	0.020	0.0023	mg/L		10/12/21 14:33	10/13/21 15:32	1
Nitrobenzene	0.020	U	0.020	0.0011	mg/L		10/12/21 14:33	10/13/21 15:32	1
Pentachlorophenol	0.040	U *+	0.040	0.0088	mg/L		10/12/21 14:33	10/13/21 15:32	1
Pyridine	0.10	U	0.10	0.0016	mg/L		10/12/21 14:33	10/13/21 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*97*		*41 - 120*	*10/12/21 14:33*	*10/13/21 15:32*	*1*
2-Fluorobiphenyl	*94*		*48 - 120*	*10/12/21 14:33*	*10/13/21 15:32*	*1*
2-Fluorophenol	*53*		*35 - 120*	*10/12/21 14:33*	*10/13/21 15:32*	*1*
Nitrobenzene-d5 (Surr)	*88*		*46 - 120*	*10/12/21 14:33*	*10/13/21 15:32*	*1*
Phenol-d5	*35*		*22 - 120*	*10/12/21 14:33*	*10/13/21 15:32*	*1*
p-Terphenyl-d14 (Surr)	*104*		*60 - 148*	*10/12/21 14:33*	*10/13/21 15:32*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0020	U	0.0020	0.000029	mg/L		10/12/21 14:26	10/13/21 11:39	1
Endrin	0.00020	U	0.00020	0.000014	mg/L		10/12/21 14:26	10/13/21 11:39	1
gamma-BHC (Lindane)	0.00020	U	0.00020	0.0000060	mg/L		10/12/21 14:26	10/13/21 11:39	1
Heptachlor	0.00020	U	0.00020	0.0000085	mg/L		10/12/21 14:26	10/13/21 11:39	1
Heptachlor epoxide	0.00020	U	0.00020	0.0000053	mg/L		10/12/21 14:26	10/13/21 11:39	1
Methoxychlor	0.00020	U	0.00020	0.000014	mg/L		10/12/21 14:26	10/13/21 11:39	1
Toxaphene	0.0020	U	0.0020	0.00012	mg/L		10/12/21 14:26	10/13/21 11:39	1

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

Client Sample ID: IDW-06-10062021

Date Collected: 10/06/21 13:30
Date Received: 10/07/21 10:00

Lab Sample ID: 480-190600-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*20 - 120*	*10/12/21 14:26*	*10/13/21 11:39*	*1*
DCB Decachlorobiphenyl	*75*		*20 - 120*	*10/12/21 14:26*	*10/13/21 11:39*	*1*
Tetrachloro-m-xylene	*94*		*44 - 120*	*10/12/21 14:26*	*10/13/21 11:39*	*1*
Tetrachloro-m-xylene	*71*		*44 - 120*	*10/12/21 14:26*	*10/13/21 11:39*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0020	U	0.0020	0.00040	mg/L		10/12/21 10:31	10/13/21 18:19	1
Silvex (2,4,5-TP)	0.0020	U	0.0020	0.00036	mg/L		10/12/21 10:31	10/13/21 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*30*	*S1-*	*48 - 132*	*10/12/21 10:31*	*10/13/21 18:19*	*1*
2,4-Dichlorophenylacetic acid	*27*	*S1-*	*48 - 132*	*10/12/21 10:31*	*10/13/21 18:19*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**	**J**	0.015	0.0056	mg/L		10/12/21 10:28	10/13/21 15:54	1
Barium	**1.0**		1.0	0.10	mg/L		10/12/21 10:28	10/13/21 15:54	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		10/12/21 10:28	10/13/21 15:54	1
Chromium	0.020	U	0.020	0.010	mg/L		10/12/21 10:28	10/13/21 15:54	1
Lead	0.020	U	0.020	0.0030	mg/L		10/12/21 10:28	10/13/21 15:54	1
Selenium	0.025	U	0.025	0.0087	mg/L		10/12/21 10:28	10/13/21 15:54	1
Silver	0.0060	U	0.0060	0.0017	mg/L		10/12/21 10:28	10/13/21 15:54	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		10/12/21 14:04	10/12/21 18:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	10	U	10	10	mg/Kg		10/12/21 11:00	10/13/21 20:09	1
Sulfide, Reactive	10	U	10	10	mg/Kg		10/12/21 11:00	10/13/21 18:42	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		50.0	50.0	Degrees F			10/14/21 16:48	1
pH	**8.3**	**HF**	0.1	0.1	SU			10/13/21 15:00	1
Temperature	**18.0**	**HF**	0.001	0.001	Degrees C			10/13/21 15:00	1

Client Sample ID: IDW-07-10062021

Date Collected: 10/06/21 13:45
Date Received: 10/07/21 10:00

Lab Sample ID: 480-190600-5

Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.010	U	0.010	0.0029	mg/L			10/14/21 09:05	10
1,2-Dichloroethane	0.010	U	0.010	0.0021	mg/L			10/14/21 09:05	10
2-Butanone (MEK)	0.050	U	0.050	0.013	mg/L			10/14/21 09:05	10
Benzene	0.010	U	0.010	0.0041	mg/L			10/14/21 09:05	10
Carbon tetrachloride	0.010	U	0.010	0.0027	mg/L			10/14/21 09:05	10
Chlorobenzene	0.010	U	0.010	0.0075	mg/L			10/14/21 09:05	10
Chloroform	0.010	U	0.010	0.0034	mg/L			10/14/21 09:05	10
Tetrachloroethene	0.010	U	0.010	0.0036	mg/L			10/14/21 09:05	10
Trichloroethene	0.010	U	0.010	0.0046	mg/L			10/14/21 09:05	10
Vinyl chloride	0.010	U	0.010	0.0090	mg/L			10/14/21 09:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*10/14/21 09:05*	*10*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*10/14/21 09:05*	*10*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*10/14/21 09:05*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/14/21 09:05*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.040	U	0.040	0.0018	mg/L		10/12/21 14:33	10/13/21 15:56	1
2,4,5-Trichlorophenol	0.020	U	0.020	0.0019	mg/L		10/12/21 14:33	10/13/21 15:56	1
2,4,6-Trichlorophenol	0.020	U	0.020	0.0024	mg/L		10/12/21 14:33	10/13/21 15:56	1
2,4-Dinitrotoluene	0.020	U	0.020	0.0017	mg/L		10/12/21 14:33	10/13/21 15:56	1
2-Methylphenol	0.020	U	0.020	0.0016	mg/L		10/12/21 14:33	10/13/21 15:56	1
3-Methylphenol	0.040	U	0.040	0.0016	mg/L		10/12/21 14:33	10/13/21 15:56	1
4-Methylphenol	0.040	U	0.040	0.0014	mg/L		10/12/21 14:33	10/13/21 15:56	1
Hexachlorobenzene	0.020	U	0.020	0.0020	mg/L		10/12/21 14:33	10/13/21 15:56	1
Hexachlorobutadiene	0.020	U	0.020	0.0027	mg/L		10/12/21 14:33	10/13/21 15:56	1
Hexachloroethane	0.020	U	0.020	0.0023	mg/L		10/12/21 14:33	10/13/21 15:56	1
Nitrobenzene	0.020	U	0.020	0.0011	mg/L		10/12/21 14:33	10/13/21 15:56	1
Pentachlorophenol	0.040	U *+	0.040	0.0088	mg/L		10/12/21 14:33	10/13/21 15:56	1
Pyridine	0.10	U	0.10	0.0016	mg/L		10/12/21 14:33	10/13/21 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*96*		*41 - 120*	*10/12/21 14:33*	*10/13/21 15:56*	*1*
2-Fluorobiphenyl	*92*		*48 - 120*	*10/12/21 14:33*	*10/13/21 15:56*	*1*
2-Fluorophenol	*51*		*35 - 120*	*10/12/21 14:33*	*10/13/21 15:56*	*1*
Nitrobenzene-d5 (Surr)	*89*		*46 - 120*	*10/12/21 14:33*	*10/13/21 15:56*	*1*
Phenol-d5	*34*		*22 - 120*	*10/12/21 14:33*	*10/13/21 15:56*	*1*
p-Terphenyl-d14 (Surr)	*104*		*60 - 148*	*10/12/21 14:33*	*10/13/21 15:56*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0020	U	0.0020	0.000029	mg/L		10/12/21 14:26	10/13/21 11:59	1
Endrin	0.00020	U	0.00020	0.000014	mg/L		10/12/21 14:26	10/13/21 11:59	1
gamma-BHC (Lindane)	0.00020	U	0.00020	0.0000060	mg/L		10/12/21 14:26	10/13/21 11:59	1
Heptachlor	0.00020	U	0.00020	0.0000085	mg/L		10/12/21 14:26	10/13/21 11:59	1
Heptachlor epoxide	0.00020	U	0.00020	0.0000053	mg/L		10/12/21 14:26	10/13/21 11:59	1
Methoxychlor	0.00020	U	0.00020	0.000014	mg/L		10/12/21 14:26	10/13/21 11:59	1
Toxaphene	0.0020	U	0.0020	0.00012	mg/L		10/12/21 14:26	10/13/21 11:59	1

Client Sample ID: IDW-07-10062021

Date Collected: 10/06/21 13:45
Date Received: 10/07/21 10:00

Lab Sample ID: 480-190600-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*20 - 120*	*10/12/21 14:26*	*10/13/21 11:59*	*1*
DCB Decachlorobiphenyl	*91*		*20 - 120*	*10/12/21 14:26*	*10/13/21 11:59*	*1*
Tetrachloro-m-xylene	*94*		*44 - 120*	*10/12/21 14:26*	*10/13/21 11:59*	*1*
Tetrachloro-m-xylene	*77*		*44 - 120*	*10/12/21 14:26*	*10/13/21 11:59*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0020	U	0.0020	0.00040	mg/L		10/12/21 10:31	10/13/21 18:49	1
Silvex (2,4,5-TP)	0.0020	U	0.0020	0.00036	mg/L		10/12/21 10:31	10/13/21 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*38*	*S1-*	*48 - 132*	*10/12/21 10:31*	*10/13/21 18:49*	*1*
2,4-Dichlorophenylacetic acid	*35*	*S1-*	*48 - 132*	*10/12/21 10:31*	*10/13/21 18:49*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	U	0.015	0.0056	mg/L		10/12/21 10:28	10/13/21 15:58	1
Barium	**0.28**	**J**	1.0	0.10	mg/L		10/12/21 10:28	10/13/21 15:58	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		10/12/21 10:28	10/13/21 15:58	1
Chromium	0.020	U	0.020	0.010	mg/L		10/12/21 10:28	10/13/21 15:58	1
Lead	0.020	U	0.020	0.0030	mg/L		10/12/21 10:28	10/13/21 15:58	1
Selenium	0.025	U	0.025	0.0087	mg/L		10/12/21 10:28	10/13/21 15:58	1
Silver	0.0060	U	0.0060	0.0017	mg/L		10/12/21 10:28	10/13/21 15:58	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		10/12/21 14:04	10/12/21 18:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	10	U	10	10	mg/Kg		10/12/21 11:00	10/13/21 20:10	1
Sulfide, Reactive	10	U	10	10	mg/Kg		10/12/21 11:00	10/13/21 18:42	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		50.0	50.0	Degrees F			10/14/21 16:48	1
pH	**9.7**	**HF**	0.1	0.1	SU			10/13/21 15:00	1
Temperature	**18.0**	**HF**	0.001	0.001	Degrees C			10/13/21 15:00	1

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

Client Sample ID: IDW-08-10062021

Date Collected: 10/06/21 13:55
Date Received: 10/07/21 10:00

Lab Sample ID: 480-190600-6

Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.010	U	0.010	0.0029	mg/L			10/14/21 09:28	10
1,2-Dichloroethane	0.010	U	0.010	0.0021	mg/L			10/14/21 09:28	10
2-Butanone (MEK)	0.050	U	0.050	0.013	mg/L			10/14/21 09:28	10
Benzene	0.010	U	0.010	0.0041	mg/L			10/14/21 09:28	10
Carbon tetrachloride	0.010	U	0.010	0.0027	mg/L			10/14/21 09:28	10
Chlorobenzene	0.010	U	0.010	0.0075	mg/L			10/14/21 09:28	10
Chloroform	0.010	U	0.010	0.0034	mg/L			10/14/21 09:28	10
Tetrachloroethene	0.010	U	0.010	0.0036	mg/L			10/14/21 09:28	10
Trichloroethene	0.010	U	0.010	0.0046	mg/L			10/14/21 09:28	10
Vinyl chloride	0.010	U	0.010	0.0090	mg/L			10/14/21 09:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*10/14/21 09:28*	*10*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*10/14/21 09:28*	*10*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*10/14/21 09:28*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/14/21 09:28*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.040	U	0.040	0.0018	mg/L		10/12/21 14:33	10/13/21 16:20	1
2,4,5-Trichlorophenol	0.020	U	0.020	0.0019	mg/L		10/12/21 14:33	10/13/21 16:20	1
2,4,6-Trichlorophenol	0.020	U	0.020	0.0024	mg/L		10/12/21 14:33	10/13/21 16:20	1
2,4-Dinitrotoluene	0.020	U	0.020	0.0017	mg/L		10/12/21 14:33	10/13/21 16:20	1
2-Methylphenol	0.020	U	0.020	0.0016	mg/L		10/12/21 14:33	10/13/21 16:20	1
3-Methylphenol	0.040	U	0.040	0.0016	mg/L		10/12/21 14:33	10/13/21 16:20	1
4-Methylphenol	0.040	U	0.040	0.0014	mg/L		10/12/21 14:33	10/13/21 16:20	1
Hexachlorobenzene	0.020	U	0.020	0.0020	mg/L		10/12/21 14:33	10/13/21 16:20	1
Hexachlorobutadiene	0.020	U	0.020	0.0027	mg/L		10/12/21 14:33	10/13/21 16:20	1
Hexachloroethane	0.020	U	0.020	0.0023	mg/L		10/12/21 14:33	10/13/21 16:20	1
Nitrobenzene	0.020	U	0.020	0.0011	mg/L		10/12/21 14:33	10/13/21 16:20	1
Pentachlorophenol	0.040	U *+	0.040	0.0088	mg/L		10/12/21 14:33	10/13/21 16:20	1
Pyridine	0.10	U	0.10	0.0016	mg/L		10/12/21 14:33	10/13/21 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*41 - 120*	*10/12/21 14:33*	*10/13/21 16:20*	*1*
2-Fluorobiphenyl	*72*		*48 - 120*	*10/12/21 14:33*	*10/13/21 16:20*	*1*
2-Fluorophenol	*38*		*35 - 120*	*10/12/21 14:33*	*10/13/21 16:20*	*1*
Nitrobenzene-d5 (Surr)	*68*		*46 - 120*	*10/12/21 14:33*	*10/13/21 16:20*	*1*
Phenol-d5	*26*		*22 - 120*	*10/12/21 14:33*	*10/13/21 16:20*	*1*
p-Terphenyl-d14 (Surr)	*96*		*60 - 148*	*10/12/21 14:33*	*10/13/21 16:20*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0020	U	0.0020	0.000029	mg/L		10/12/21 14:26	10/13/21 12:18	1
Endrin	0.00020	U	0.00020	0.000014	mg/L		10/12/21 14:26	10/13/21 12:18	1
gamma-BHC (Lindane)	0.00020	U	0.00020	0.0000060	mg/L		10/12/21 14:26	10/13/21 12:18	1
Heptachlor	0.00020	U	0.00020	0.0000085	mg/L		10/12/21 14:26	10/13/21 12:18	1
Heptachlor epoxide	0.00020	U	0.00020	0.0000053	mg/L		10/12/21 14:26	10/13/21 12:18	1
Methoxychlor	0.00020	U	0.00020	0.000014	mg/L		10/12/21 14:26	10/13/21 12:18	1
Toxaphene	0.0020	U	0.0020	0.00012	mg/L		10/12/21 14:26	10/13/21 12:18	1

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

Client Sample ID: IDW-08-10062021

Date Collected: 10/06/21 13:55
Date Received: 10/07/21 10:00

Lab Sample ID: 480-190600-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*20 - 120*	*10/12/21 14:26*	*10/13/21 12:18*	*1*
DCB Decachlorobiphenyl	*63*		*20 - 120*	*10/12/21 14:26*	*10/13/21 12:18*	*1*
Tetrachloro-m-xylene	*78*		*44 - 120*	*10/12/21 14:26*	*10/13/21 12:18*	*1*
Tetrachloro-m-xylene	*60*		*44 - 120*	*10/12/21 14:26*	*10/13/21 12:18*	*1*

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0020	U	0.0020	0.00040	mg/L		10/12/21 10:31	10/13/21 19:18	1
Silvex (2,4,5-TP)	0.0020	U	0.0020	0.00036	mg/L		10/12/21 10:31	10/13/21 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*40*	*S1-*	*48 - 132*	*10/12/21 10:31*	*10/13/21 19:18*	*1*
2,4-Dichlorophenylacetic acid	*41*	*S1-*	*48 - 132*	*10/12/21 10:31*	*10/13/21 19:18*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	U	0.015	0.0056	mg/L		10/12/21 10:28	10/13/21 16:02	1
Barium	**0.30**	**J**	1.0	0.10	mg/L		10/12/21 10:28	10/13/21 16:02	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		10/12/21 10:28	10/13/21 16:02	1
Chromium	0.020	U	0.020	0.010	mg/L		10/12/21 10:28	10/13/21 16:02	1
Lead	0.020	U	0.020	0.0030	mg/L		10/12/21 10:28	10/13/21 16:02	1
Selenium	0.025	U	0.025	0.0087	mg/L		10/12/21 10:28	10/13/21 16:02	1
Silver	0.0060	U	0.0060	0.0017	mg/L		10/12/21 10:28	10/13/21 16:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		10/12/21 14:04	10/12/21 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	10	U	10	10	mg/Kg		10/12/21 11:00	10/13/21 20:11	1
Sulfide, Reactive	10	U	10	10	mg/Kg		10/12/21 11:00	10/13/21 18:42	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		50.0	50.0	Degrees F			10/14/21 16:48	1
pH	**8.8**	**HF**	0.1	0.1	SU			10/13/21 15:00	1
Temperature	**18.1**	**HF**	0.001	0.001	Degrees C			10/13/21 15:00	1

Surrogate Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

Method: 8260C - TCLP Volatiles

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
LCS 480-600287/6	Lab Control Sample	95	99	92	102
MB 480-600287/8	Method Blank	96	97	91	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - TCLP Volatiles

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-190600-1	IDW-03-10062021	101	93	101	99
480-190600-2	IDW-04-10062021	104	96	104	99
480-190600-3	IDW-05-10062021	104	96	101	99
480-190600-4	IDW-06-10062021	98	94	96	94
480-190600-5	IDW-07-10062021	104	96	101	100
480-190600-6	IDW-08-10062021	97	93	96	100
480-190600-6 MS	IDW-08-10062021	99	100	93	104
480-190600-6 MSD	IDW-08-10062021	96	98	96	98
LB 480-599811/1-A	Method Blank	101	93	101	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)
LCS 480-600108/2-A	Lab Control Sample	109	94	51	88	36	101
LCSD 480-600108/3-A	Lab Control Sample Dup	103	86	43	80	31	98
MB 480-600108/1-A	Method Blank	87	82	45	76	31	99

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14 (Surr)

Surrogate Summary

Client: Parsons Corporation
Job ID: 480-190600-1
Project/Site: Avangrid - Clark Street

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)
480-190600-1	IDW-03-10062021	95	81	44	77	31	97
480-190600-2	IDW-04-10062021	99	89	46	82	33	105
480-190600-3	IDW-05-10062021	97	89	52	84	35	105
480-190600-4	IDW-06-10062021	97	94	53	88	35	104
480-190600-5	IDW-07-10062021	96	92	51	89	34	104
480-190600-6	IDW-08-10062021	88	72	38	68	26	96
LB 480-599813/1-F	Method Blank	94	94	50	86	35	106

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
LCS 480-600104/2-A	Lab Control Sample	64	70	86	76
LCSD 480-600104/3-A	Lab Control Sample Dup	65	72	89	78
MB 480-600104/1-A	Method Blank	60	66	81	73

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-190600-1	IDW-03-10062021	73	76	92	67
480-190600-2	IDW-04-10062021	74	70	83	53
480-190600-3	IDW-05-10062021	71	75	79	68
480-190600-4	IDW-06-10062021	62	75	94	71
480-190600-5	IDW-07-10062021	86	91	94	77
480-190600-6	IDW-08-10062021	63	63	78	60
LB 480-599813/1-E	Method Blank	68	70	81	68

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Parsons Corporation
Job ID: 480-190600-1
Project/Site: Avangrid - Clark Street

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(48-132)	(48-132)
LCS 480-599980/2-A	Lab Control Sample	81	90
LCSD 480-599980/3-A	Lab Control Sample Dup	68	82
MB 480-599980/1-A	Method Blank	80	83

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8151 - TCLP Herbicides

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(48-132)	(48-132)
480-190600-1	IDW-03-10062021	22 S1-	35 S1-
480-190600-2	IDW-04-10062021	45 S1-	43 S1-
480-190600-3	IDW-05-10062021	37 S1-	45 S1-
480-190600-4	IDW-06-10062021	30 S1-	27 S1-
480-190600-5	IDW-07-10062021	38 S1-	35 S1-
480-190600-6	IDW-08-10062021	40 S1-	41 S1-
LB 480-599813/1-C	Method Blank	49	44 S1-

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8260C - TCLP Volatiles

Lab Sample ID: MB 480-600287/8
Matrix: Solid
Analysis Batch: 600287

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.0010	U	0.0010	0.00029	mg/L			10/14/21 01:00	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00021	mg/L			10/14/21 01:00	1
2-Butanone (MEK)	0.0050	U	0.0050	0.0013	mg/L			10/14/21 01:00	1
Benzene	0.0010	U	0.0010	0.00041	mg/L			10/14/21 01:00	1
Carbon tetrachloride	0.0010	U	0.0010	0.00027	mg/L			10/14/21 01:00	1
Chlorobenzene	0.0010	U	0.0010	0.00075	mg/L			10/14/21 01:00	1
Chloroform	0.0010	U	0.0010	0.00034	mg/L			10/14/21 01:00	1
Tetrachloroethene	0.0010	U	0.0010	0.00036	mg/L			10/14/21 01:00	1
Trichloroethene	0.0010	U	0.0010	0.00046	mg/L			10/14/21 01:00	1
Vinyl chloride	0.0010	U	0.0010	0.00090	mg/L			10/14/21 01:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*10/14/21 01:00*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*10/14/21 01:00*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 123*		*10/14/21 01:00*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/14/21 01:00*	*1*

Lab Sample ID: LCS 480-600287/6
Matrix: Solid
Analysis Batch: 600287

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0228		mg/L		91	66 - 127
1,2-Dichloroethane	0.0250	0.0234		mg/L		94	75 - 120
2-Butanone (MEK)	0.125	0.103		mg/L		82	57 - 140
Benzene	0.0250	0.0226		mg/L		91	71 - 124
Carbon tetrachloride	0.0250	0.0273		mg/L		109	72 - 134
Chlorobenzene	0.0250	0.0240		mg/L		96	80 - 120
Chloroform	0.0250	0.0218		mg/L		87	73 - 127
Tetrachloroethene	0.0250	0.0222		mg/L		89	74 - 122
Trichloroethene	0.0250	0.0230		mg/L		92	74 - 123
Vinyl chloride	0.0250	0.0214		mg/L		86	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*92*		*75 - 123*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: LB 480-599811/1-A
Matrix: Solid
Analysis Batch: 600287

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.010	U	0.010	0.0029	mg/L			10/14/21 07:09	10
1,2-Dichloroethane	0.010	U	0.010	0.0021	mg/L			10/14/21 07:09	10
2-Butanone (MEK)	0.050	U	0.050	0.013	mg/L			10/14/21 07:09	10
Benzene	0.010	U	0.010	0.0041	mg/L			10/14/21 07:09	10

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-599811/1-A
Matrix: Solid
Analysis Batch: 600287

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.010	U	0.010	0.0027	mg/L			10/14/21 07:09	10
Chlorobenzene	0.010	U	0.010	0.0075	mg/L			10/14/21 07:09	10
Chloroform	0.010	U	0.010	0.0034	mg/L			10/14/21 07:09	10
Tetrachloroethene	0.010	U	0.010	0.0036	mg/L			10/14/21 07:09	10
Trichloroethene	0.010	U	0.010	0.0046	mg/L			10/14/21 07:09	10
Vinyl chloride	0.010	U	0.010	0.0090	mg/L			10/14/21 07:09	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*10/14/21 07:09*	*10*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*10/14/21 07:09*	*10*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*10/14/21 07:09*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/14/21 07:09*	*10*

Lab Sample ID: 480-190600-6 MS
Matrix: Solid
Analysis Batch: 600287

Client Sample ID: IDW-08-10062021
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.010	U	0.250	0.257		mg/L		103	66 - 127
1,2-Dichloroethane	0.010	U	0.250	0.243		mg/L		97	75 - 120
2-Butanone (MEK)	0.050	U	1.25	1.02		mg/L		82	57 - 140
Benzene	0.010	U	0.250	0.256		mg/L		102	71 - 124
Carbon tetrachloride	0.010	U	0.250	0.318		mg/L		127	72 - 134
Chlorobenzene	0.010	U	0.250	0.262		mg/L		105	80 - 120
Chloroform	0.010	U	0.250	0.245		mg/L		98	73 - 127
Tetrachloroethene	0.010	U	0.250	0.258		mg/L		103	74 - 122
Trichloroethene	0.010	U	0.250	0.264		mg/L		105	74 - 123
Vinyl chloride	0.010	U	0.250	0.224		mg/L		89	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 480-190600-6 MSD
Matrix: Solid
Analysis Batch: 600287

Client Sample ID: IDW-08-10062021
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	0.010	U	0.250	0.275		mg/L		110	66 - 127	7	16
1,2-Dichloroethane	0.010	U	0.250	0.251		mg/L		100	75 - 120	3	20
2-Butanone (MEK)	0.050	U	1.25	1.10		mg/L		88	57 - 140	7	20
Benzene	0.010	U	0.250	0.267		mg/L		107	71 - 124	4	13
Carbon tetrachloride	0.010	U	0.250	0.324		mg/L		129	72 - 134	2	15
Chlorobenzene	0.010	U	0.250	0.261		mg/L		104	80 - 120	0	25
Chloroform	0.010	U	0.250	0.255		mg/L		102	73 - 127	4	20
Tetrachloroethene	0.010	U	0.250	0.257		mg/L		103	74 - 122	0	20

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: 480-190600-6 MSD
Matrix: Solid
Analysis Batch: 600287

Client Sample ID: IDW-08-10062021
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene	0.010	U	0.250	0.278		mg/L		111	74 - 123	5	16
Vinyl chloride	0.010	U	0.250	0.249		mg/L		100	65 - 133	11	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*96*		*75 - 123*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-600108/1-A
Matrix: Solid
Analysis Batch: 600212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.010	U	0.010	0.00045	mg/L		10/12/21 14:33	10/13/21 12:44	1
2,4,5-Trichlorophenol	0.0050	U	0.0050	0.00048	mg/L		10/12/21 14:33	10/13/21 12:44	1
2,4,6-Trichlorophenol	0.0050	U	0.0050	0.00060	mg/L		10/12/21 14:33	10/13/21 12:44	1
2,4-Dinitrotoluene	0.0050	U	0.0050	0.00043	mg/L		10/12/21 14:33	10/13/21 12:44	1
2-Methylphenol	0.0050	U	0.0050	0.00040	mg/L		10/12/21 14:33	10/13/21 12:44	1
3-Methylphenol	0.010	U	0.010	0.00040	mg/L		10/12/21 14:33	10/13/21 12:44	1
4-Methylphenol	0.010	U	0.010	0.00035	mg/L		10/12/21 14:33	10/13/21 12:44	1
Hexachlorobenzene	0.0050	U	0.0050	0.00050	mg/L		10/12/21 14:33	10/13/21 12:44	1
Hexachlorobutadiene	0.0050	U	0.0050	0.00068	mg/L		10/12/21 14:33	10/13/21 12:44	1
Hexachloroethane	0.0050	U	0.0050	0.00058	mg/L		10/12/21 14:33	10/13/21 12:44	1
Nitrobenzene	0.0050	U	0.0050	0.00028	mg/L		10/12/21 14:33	10/13/21 12:44	1
Pentachlorophenol	0.010	U	0.010	0.0022	mg/L		10/12/21 14:33	10/13/21 12:44	1
Pyridine	0.025	U	0.025	0.00040	mg/L		10/12/21 14:33	10/13/21 12:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*41 - 120*	*10/12/21 14:33*	*10/13/21 12:44*	*1*
2-Fluorobiphenyl	*82*		*48 - 120*	*10/12/21 14:33*	*10/13/21 12:44*	*1*
2-Fluorophenol	*45*		*35 - 120*	*10/12/21 14:33*	*10/13/21 12:44*	*1*
Nitrobenzene-d5 (Surr)	*76*		*46 - 120*	*10/12/21 14:33*	*10/13/21 12:44*	*1*
Phenol-d5	*31*		*22 - 120*	*10/12/21 14:33*	*10/13/21 12:44*	*1*
p-Terphenyl-d14 (Surr)	*99*		*60 - 148*	*10/12/21 14:33*	*10/13/21 12:44*	*1*

Lab Sample ID: LCS 480-600108/2-A
Matrix: Solid
Analysis Batch: 600212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0500	0.0387		mg/L		77	51 - 120
2,4,5-Trichlorophenol	0.0500	0.0536		mg/L		107	65 - 126
2,4,6-Trichlorophenol	0.0500	0.0511		mg/L		102	64 - 120
2,4-Dinitrotoluene	0.0500	0.0527		mg/L		105	69 - 120
2-Methylphenol	0.0500	0.0392		mg/L		78	39 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-600108/2-A
Matrix: Solid
Analysis Batch: 600212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Methylphenol	0.0500	0.0371		mg/L		74	39 - 120
4-Methylphenol	0.0500	0.0371		mg/L		74	29 - 131
Hexachlorobenzene	0.0500	0.0487		mg/L		97	61 - 120
Hexachlorobutadiene	0.0500	0.0386		mg/L		77	35 - 120
Hexachloroethane	0.0500	0.0385		mg/L		77	43 - 120
Nitrobenzene	0.0500	0.0439		mg/L		88	53 - 123
Pentachlorophenol	0.100	0.139	*+	mg/L		139	29 - 136
Pyridine	0.100	0.0384		mg/L		38	10 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*109*		*41 - 120*
2-Fluorobiphenyl	*94*		*48 - 120*
2-Fluorophenol	*51*		*35 - 120*
Nitrobenzene-d5 (Surr)	*88*		*46 - 120*
Phenol-d5	*36*		*22 - 120*
p-Terphenyl-d14 (Surr)	*101*		*60 - 148*

Lab Sample ID: LCSD 480-600108/3-A
Matrix: Solid
Analysis Batch: 600212

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 600108

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.0500	0.0330		mg/L		66	51 - 120	16	36
2,4,5-Trichlorophenol	0.0500	0.0489		mg/L		98	65 - 126	9	18
2,4,6-Trichlorophenol	0.0500	0.0459		mg/L		92	64 - 120	11	19
2,4-Dinitrotoluene	0.0500	0.0510		mg/L		102	69 - 120	3	20
2-Methylphenol	0.0500	0.0342		mg/L		68	39 - 120	14	27
3-Methylphenol	0.0500	0.0321		mg/L		64	39 - 120	14	30
4-Methylphenol	0.0500	0.0321		mg/L		64	29 - 131	14	24
Hexachlorobenzene	0.0500	0.0454		mg/L		91	61 - 120	7	15
Hexachlorobutadiene	0.0500	0.0348		mg/L		70	35 - 120	11	44
Hexachloroethane	0.0500	0.0319		mg/L		64	43 - 120	19	46
Nitrobenzene	0.0500	0.0389		mg/L		78	53 - 123	12	24
Pentachlorophenol	0.100	0.134		mg/L		134	29 - 136	4	37
Pyridine	0.100	0.0303		mg/L		30	10 - 120	24	49

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*103*		*41 - 120*
2-Fluorobiphenyl	*86*		*48 - 120*
2-Fluorophenol	*43*		*35 - 120*
Nitrobenzene-d5 (Surr)	*80*		*46 - 120*
Phenol-d5	*31*		*22 - 120*
p-Terphenyl-d14 (Surr)	*98*		*60 - 148*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 480-599813/1-F
Matrix: Solid
Analysis Batch: 600212

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 600108

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.040	U	0.040	0.0018	mg/L		10/12/21 14:33	10/13/21 13:56	1
2,4,5-Trichlorophenol	0.020	U	0.020	0.0019	mg/L		10/12/21 14:33	10/13/21 13:56	1
2,4,6-Trichlorophenol	0.020	U	0.020	0.0024	mg/L		10/12/21 14:33	10/13/21 13:56	1
2,4-Dinitrotoluene	0.020	U	0.020	0.0017	mg/L		10/12/21 14:33	10/13/21 13:56	1
2-Methylphenol	0.020	U	0.020	0.0016	mg/L		10/12/21 14:33	10/13/21 13:56	1
3-Methylphenol	0.040	U	0.040	0.0016	mg/L		10/12/21 14:33	10/13/21 13:56	1
4-Methylphenol	0.040	U	0.040	0.0014	mg/L		10/12/21 14:33	10/13/21 13:56	1
Hexachlorobenzene	0.020	U	0.020	0.0020	mg/L		10/12/21 14:33	10/13/21 13:56	1
Hexachlorobutadiene	0.020	U	0.020	0.0027	mg/L		10/12/21 14:33	10/13/21 13:56	1
Hexachloroethane	0.020	U	0.020	0.0023	mg/L		10/12/21 14:33	10/13/21 13:56	1
Nitrobenzene	0.020	U	0.020	0.0011	mg/L		10/12/21 14:33	10/13/21 13:56	1
Pentachlorophenol	0.040	U	0.040	0.0088	mg/L		10/12/21 14:33	10/13/21 13:56	1
Pyridine	0.10	U	0.10	0.0016	mg/L		10/12/21 14:33	10/13/21 13:56	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*94*		*41 - 120*	*10/12/21 14:33*	*10/13/21 13:56*	*1*
2-Fluorobiphenyl	*94*		*48 - 120*	*10/12/21 14:33*	*10/13/21 13:56*	*1*
2-Fluorophenol	*50*		*35 - 120*	*10/12/21 14:33*	*10/13/21 13:56*	*1*
Nitrobenzene-d5 (Surr)	*86*		*46 - 120*	*10/12/21 14:33*	*10/13/21 13:56*	*1*
Phenol-d5	*35*		*22 - 120*	*10/12/21 14:33*	*10/13/21 13:56*	*1*
p-Terphenyl-d14 (Surr)	*106*		*60 - 148*	*10/12/21 14:33*	*10/13/21 13:56*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-600104/1-A
Matrix: Solid
Analysis Batch: 600157

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600104

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.00050	U	0.00050	0.0000073	mg/L		10/12/21 14:26	10/13/21 09:22	1
Endrin	0.000050	U	0.000050	0.0000035	mg/L		10/12/21 14:26	10/13/21 09:22	1
gamma-BHC (Lindane)	0.000050	U	0.000050	0.0000015	mg/L		10/12/21 14:26	10/13/21 09:22	1
Heptachlor	0.000050	U	0.000050	0.0000021	mg/L		10/12/21 14:26	10/13/21 09:22	1
Heptachlor epoxide	0.000050	U	0.000050	0.0000013	mg/L		10/12/21 14:26	10/13/21 09:22	1
Methoxychlor	0.000050	U	0.000050	0.0000035	mg/L		10/12/21 14:26	10/13/21 09:22	1
Toxaphene	0.00050	U	0.00050	0.000030	mg/L		10/12/21 14:26	10/13/21 09:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*20 - 120*	*10/12/21 14:26*	*10/13/21 09:22*	*1*
DCB Decachlorobiphenyl	*66*		*20 - 120*	*10/12/21 14:26*	*10/13/21 09:22*	*1*
Tetrachloro-m-xylene	*81*		*44 - 120*	*10/12/21 14:26*	*10/13/21 09:22*	*1*
Tetrachloro-m-xylene	*73*		*44 - 120*	*10/12/21 14:26*	*10/13/21 09:22*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-600104/2-A
Matrix: Solid
Analysis Batch: 600157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600104

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Endrin			0.000500	0.000586		mg/L		117	65 - 135		
gamma-BHC (Lindane)			0.000500	0.000458		mg/L		92	56 - 120		
Heptachlor			0.000500	0.000468		mg/L		94	58 - 120		
Heptachlor epoxide			0.000500	0.000547		mg/L		109	65 - 125		
Methoxychlor			0.000500	0.000564		mg/L		113	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*64*		*20 - 120*
DCB Decachlorobiphenyl	*70*		*20 - 120*
Tetrachloro-m-xylene	*86*		*44 - 120*
Tetrachloro-m-xylene	*76*		*44 - 120*

Lab Sample ID: LCSD 480-600104/3-A
Matrix: Solid
Analysis Batch: 600157

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 600104

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin			0.000500	0.000539		mg/L		108	65 - 135	8	24
gamma-BHC (Lindane)			0.000500	0.000440		mg/L		88	56 - 120	4	24
Heptachlor			0.000500	0.000463		mg/L		93	58 - 120	1	25
Heptachlor epoxide			0.000500	0.000514		mg/L		103	65 - 125	6	23
Methoxychlor			0.000500	0.000576		mg/L		115	50 - 150	2	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*65*		*20 - 120*
DCB Decachlorobiphenyl	*72*		*20 - 120*
Tetrachloro-m-xylene	*89*		*44 - 120*
Tetrachloro-m-xylene	*78*		*44 - 120*

Lab Sample ID: LB 480-599813/1-E
Matrix: Solid
Analysis Batch: 600157

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 600104

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0020	U	0.0020	0.000029	mg/L		10/12/21 14:26	10/13/21 10:21	1
Endrin	0.00020	U	0.00020	0.000014	mg/L		10/12/21 14:26	10/13/21 10:21	1
gamma-BHC (Lindane)	0.00020	U	0.00020	0.0000060	mg/L		10/12/21 14:26	10/13/21 10:21	1
Heptachlor	0.00020	U	0.00020	0.0000085	mg/L		10/12/21 14:26	10/13/21 10:21	1
Heptachlor epoxide	0.00020	U	0.00020	0.0000053	mg/L		10/12/21 14:26	10/13/21 10:21	1
Methoxychlor	0.00020	U	0.00020	0.000014	mg/L		10/12/21 14:26	10/13/21 10:21	1
Toxaphene	0.0020	U	0.0020	0.00012	mg/L		10/12/21 14:26	10/13/21 10:21	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*20 - 120*	*10/12/21 14:26*	*10/13/21 10:21*	*1*
DCB Decachlorobiphenyl	*70*		*20 - 120*	*10/12/21 14:26*	*10/13/21 10:21*	*1*
Tetrachloro-m-xylene	*81*		*44 - 120*	*10/12/21 14:26*	*10/13/21 10:21*	*1*
Tetrachloro-m-xylene	*68*		*44 - 120*	*10/12/21 14:26*	*10/13/21 10:21*	*1*

Method: 8151 - TCLP Herbicides

Lab Sample ID: MB 480-599980/1-A
Matrix: Solid
Analysis Batch: 600156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599980

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.00050	U	0.00050	0.00010	mg/L		10/12/21 09:03	10/13/21 12:52	1
Silvex (2,4,5-TP)	0.00050	U	0.00050	0.000090	mg/L		10/12/21 09:03	10/13/21 12:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*80*		*48 - 132*	*10/12/21 09:03*	*10/13/21 12:52*	*1*
2,4-Dichlorophenylacetic acid	*83*		*48 - 132*	*10/12/21 09:03*	*10/13/21 12:52*	*1*

Lab Sample ID: LCS 480-599980/2-A
Matrix: Solid
Analysis Batch: 600156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599980

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D			0.00200	0.00138		mg/L		69	36 - 150		
Silvex (2,4,5-TP)			0.00200	0.00144		mg/L		72	49 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*81*		*48 - 132*
2,4-Dichlorophenylacetic acid	*90*		*48 - 132*

Lab Sample ID: LCSD 480-599980/3-A
Matrix: Solid
Analysis Batch: 600156

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 599980

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D			0.00200	0.00142		mg/L		71	36 - 150	2	50
Silvex (2,4,5-TP)			0.00200	0.00146		mg/L		73	49 - 150	1	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*68*		*48 - 132*
2,4-Dichlorophenylacetic acid	*82*		*48 - 132*

Lab Sample ID: LB 480-599813/1-C
Matrix: Solid
Analysis Batch: 600156

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 599980

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0020	U	0.0020	0.00040	mg/L		10/12/21 10:31	10/13/21 15:50	1
Silvex (2,4,5-TP)	0.0020	U	0.0020	0.00036	mg/L		10/12/21 10:31	10/13/21 15:50	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*49*		*48 - 132*	*10/12/21 10:31*	*10/13/21 15:50*	*1*
2,4-Dichlorophenylacetic acid	*44*	*S1-*	*48 - 132*	*10/12/21 10:31*	*10/13/21 15:50*	*1*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-600032/2-A
Matrix: Solid
Analysis Batch: 600391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	U	0.015	0.0056	mg/L		10/12/21 10:28	10/13/21 15:07	1
Barium	1.0	U	1.0	0.10	mg/L		10/12/21 10:28	10/13/21 15:07	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		10/12/21 10:28	10/13/21 15:07	1
Chromium	0.020	U	0.020	0.010	mg/L		10/12/21 10:28	10/13/21 15:07	1
Lead	0.020	U	0.020	0.0030	mg/L		10/12/21 10:28	10/13/21 15:07	1
Selenium	0.025	U	0.025	0.0087	mg/L		10/12/21 10:28	10/13/21 15:07	1
Silver	0.0060	U	0.0060	0.0017	mg/L		10/12/21 10:28	10/13/21 15:07	1

Lab Sample ID: LCS 480-600032/3-A
Matrix: Solid
Analysis Batch: 600391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.08		mg/L		108	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Cadmium	1.00	1.06		mg/L		106	80 - 120
Chromium	1.00	1.01		mg/L		101	80 - 120
Lead	1.00	1.00		mg/L		100	80 - 120
Selenium	1.00	1.07		mg/L		107	80 - 120
Silver	1.00	1.07		mg/L		107	80 - 120

Lab Sample ID: LB 480-599813/1-B
Matrix: Solid
Analysis Batch: 600391

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 600032

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	U	0.015	0.0056	mg/L		10/12/21 10:28	10/13/21 15:03	1
Barium	1.0	U	1.0	0.10	mg/L		10/12/21 10:28	10/13/21 15:03	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		10/12/21 10:28	10/13/21 15:03	1
Chromium	0.020	U	0.020	0.010	mg/L		10/12/21 10:28	10/13/21 15:03	1
Lead	0.020	U	0.020	0.0030	mg/L		10/12/21 10:28	10/13/21 15:03	1
Selenium	0.025	U	0.025	0.0087	mg/L		10/12/21 10:28	10/13/21 15:03	1
Silver	0.0060	U	0.0060	0.0017	mg/L		10/12/21 10:28	10/13/21 15:03	1

Lab Sample ID: 480-190600-2 MS
Matrix: Solid
Analysis Batch: 600391

Client Sample ID: IDW-04-10062021
Prep Type: TCLP
Prep Batch: 600032

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0078	J	1.00	1.10		mg/L		109	75 - 125
Barium	0.38	J	1.00	1.40		mg/L		102	75 - 125
Cadmium	0.0020	U	1.00	1.09		mg/L		109	75 - 125
Chromium	0.020	U	1.00	0.967		mg/L		97	75 - 125
Lead	0.020	U	1.00	0.996		mg/L		100	75 - 125
Selenium	0.025	U	1.00	1.08		mg/L		108	75 - 125
Silver	0.0060	U	1.00	1.09		mg/L		109	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-190600-2 MSD
Matrix: Solid
Analysis Batch: 600391

Client Sample ID: IDW-04-10062021
Prep Type: TCLP
Prep Batch: 600032

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0078	J	1.00	1.08		mg/L		108	75 - 125	1	20
Barium	0.38	J	1.00	1.39		mg/L		101	75 - 125	1	20
Cadmium	0.0020	U	1.00	1.07		mg/L		107	75 - 125	2	20
Chromium	0.020	U	1.00	0.953		mg/L		95	75 - 125	2	20
Lead	0.020	U	1.00	0.987		mg/L		99	75 - 125	1	20
Selenium	0.025	U	1.00	1.07		mg/L		107	75 - 125	1	20
Silver	0.0060	U	1.00	1.08		mg/L		108	75 - 125	1	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-600075/2-A
Matrix: Solid
Analysis Batch: 600145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		10/12/21 14:04	10/12/21 18:01	1

Lab Sample ID: LCS 480-600075/3-A
Matrix: Solid
Analysis Batch: 600145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00670		mg/L		100	80 - 120

Lab Sample ID: LB 480-599813/1-D
Matrix: Solid
Analysis Batch: 600145

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 600075

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		10/12/21 14:04	10/12/21 18:00	1

Lab Sample ID: 480-190600-2 MS
Matrix: Solid
Analysis Batch: 600145

Client Sample ID: IDW-04-10062021
Prep Type: TCLP
Prep Batch: 600075

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00020	U	0.00668	0.00615		mg/L		92	80 - 120

Lab Sample ID: 480-190600-2 MSD
Matrix: Solid
Analysis Batch: 600145

Client Sample ID: IDW-04-10062021
Prep Type: TCLP
Prep Batch: 600075

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00020	U	0.00668	0.00613		mg/L		92	80 - 120	0	20

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-600505/1
Matrix: Solid
Analysis Batch: 600505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

Lab Sample ID: 480-190600-1 DU
Matrix: Solid
Analysis Batch: 600505

Client Sample ID: IDW-03-10062021
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>180		>180.0		Degrees F		NC	10

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-600322/1-A
Matrix: Solid
Analysis Batch: 600425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	10.0	U	10.0	10.0	mg/Kg		10/12/21 11:00	10/13/21 19:51	1

Lab Sample ID: LCS 480-600322/2-A
Matrix: Solid
Analysis Batch: 600425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	200	U	mg/Kg		19	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-600323/1-A
Matrix: Solid
Analysis Batch: 600430

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	10.0	U	10.0	10.0	mg/Kg		10/12/21 11:00	10/13/21 18:42	1

Lab Sample ID: LCS 480-600323/2-A
Matrix: Solid
Analysis Batch: 600430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	820	521.0		mg/Kg		64	10 - 100

Method: 9045D - pH

Lab Sample ID: LCS 480-600324/1
Matrix: Solid
Analysis Batch: 600324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

QC Association Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

GC/MS VOA

Leach Batch: 599811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	TCLP	Solid	1311	
480-190600-2	IDW-04-10062021	TCLP	Solid	1311	
480-190600-3	IDW-05-10062021	TCLP	Solid	1311	
480-190600-4	IDW-06-10062021	TCLP	Solid	1311	
480-190600-5	IDW-07-10062021	TCLP	Solid	1311	
480-190600-6	IDW-08-10062021	TCLP	Solid	1311	
LB 480-599811/1-A	Method Blank	TCLP	Solid	1311	
480-190600-6 MS	IDW-08-10062021	TCLP	Solid	1311	
480-190600-6 MSD	IDW-08-10062021	TCLP	Solid	1311	

Analysis Batch: 600287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	TCLP	Solid	8260C	599811
480-190600-2	IDW-04-10062021	TCLP	Solid	8260C	599811
480-190600-3	IDW-05-10062021	TCLP	Solid	8260C	599811
480-190600-4	IDW-06-10062021	TCLP	Solid	8260C	599811
480-190600-5	IDW-07-10062021	TCLP	Solid	8260C	599811
480-190600-6	IDW-08-10062021	TCLP	Solid	8260C	599811
LB 480-599811/1-A	Method Blank	TCLP	Solid	8260C	599811
MB 480-600287/8	Method Blank	Total/NA	Solid	8260C	
LCS 480-600287/6	Lab Control Sample	Total/NA	Solid	8260C	
480-190600-6 MS	IDW-08-10062021	TCLP	Solid	8260C	599811
480-190600-6 MSD	IDW-08-10062021	TCLP	Solid	8260C	599811

GC/MS Semi VOA

Leach Batch: 599813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	TCLP	Solid	1311	
480-190600-2	IDW-04-10062021	TCLP	Solid	1311	
480-190600-3	IDW-05-10062021	TCLP	Solid	1311	
480-190600-4	IDW-06-10062021	TCLP	Solid	1311	
480-190600-5	IDW-07-10062021	TCLP	Solid	1311	
480-190600-6	IDW-08-10062021	TCLP	Solid	1311	
LB 480-599813/1-F	Method Blank	TCLP	Solid	1311	

Prep Batch: 600108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	TCLP	Solid	3510C	599813
480-190600-2	IDW-04-10062021	TCLP	Solid	3510C	599813
480-190600-3	IDW-05-10062021	TCLP	Solid	3510C	599813
480-190600-4	IDW-06-10062021	TCLP	Solid	3510C	599813
480-190600-5	IDW-07-10062021	TCLP	Solid	3510C	599813
480-190600-6	IDW-08-10062021	TCLP	Solid	3510C	599813
LB 480-599813/1-F	Method Blank	TCLP	Solid	3510C	599813
MB 480-600108/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-600108/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-600108/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

QC Association Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

GC/MS Semi VOA

Analysis Batch: 600212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	TCLP	Solid	8270D	600108
480-190600-2	IDW-04-10062021	TCLP	Solid	8270D	600108
480-190600-3	IDW-05-10062021	TCLP	Solid	8270D	600108
480-190600-4	IDW-06-10062021	TCLP	Solid	8270D	600108
480-190600-5	IDW-07-10062021	TCLP	Solid	8270D	600108
480-190600-6	IDW-08-10062021	TCLP	Solid	8270D	600108
LB 480-599813/1-F	Method Blank	TCLP	Solid	8270D	600108
MB 480-600108/1-A	Method Blank	Total/NA	Solid	8270D	600108
LCS 480-600108/2-A	Lab Control Sample	Total/NA	Solid	8270D	600108
LCSD 480-600108/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	600108

GC Semi VOA

Leach Batch: 599813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	TCLP	Solid	1311	
480-190600-2	IDW-04-10062021	TCLP	Solid	1311	
480-190600-3	IDW-05-10062021	TCLP	Solid	1311	
480-190600-4	IDW-06-10062021	TCLP	Solid	1311	
480-190600-5	IDW-07-10062021	TCLP	Solid	1311	
480-190600-6	IDW-08-10062021	TCLP	Solid	1311	
LB 480-599813/1-C	Method Blank	TCLP	Solid	1311	
LB 480-599813/1-E	Method Blank	TCLP	Solid	1311	

Prep Batch: 599980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	TCLP	Solid	8151A	599813
480-190600-2	IDW-04-10062021	TCLP	Solid	8151A	599813
480-190600-3	IDW-05-10062021	TCLP	Solid	8151A	599813
480-190600-4	IDW-06-10062021	TCLP	Solid	8151A	599813
480-190600-5	IDW-07-10062021	TCLP	Solid	8151A	599813
480-190600-6	IDW-08-10062021	TCLP	Solid	8151A	599813
LB 480-599813/1-C	Method Blank	TCLP	Solid	8151A	599813
MB 480-599980/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-599980/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 480-599980/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Prep Batch: 600104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	TCLP	Solid	3510C	599813
480-190600-2	IDW-04-10062021	TCLP	Solid	3510C	599813
480-190600-3	IDW-05-10062021	TCLP	Solid	3510C	599813
480-190600-4	IDW-06-10062021	TCLP	Solid	3510C	599813
480-190600-5	IDW-07-10062021	TCLP	Solid	3510C	599813
480-190600-6	IDW-08-10062021	TCLP	Solid	3510C	599813
LB 480-599813/1-E	Method Blank	TCLP	Solid	3510C	599813
MB 480-600104/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-600104/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-600104/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

QC Association Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

GC Semi VOA

Analysis Batch: 600156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	TCLP	Solid	8151	599980
480-190600-2	IDW-04-10062021	TCLP	Solid	8151	599980
480-190600-3	IDW-05-10062021	TCLP	Solid	8151	599980
480-190600-4	IDW-06-10062021	TCLP	Solid	8151	599980
480-190600-5	IDW-07-10062021	TCLP	Solid	8151	599980
480-190600-6	IDW-08-10062021	TCLP	Solid	8151	599980
LB 480-599813/1-C	Method Blank	TCLP	Solid	8151	599980
MB 480-599980/1-A	Method Blank	Total/NA	Solid	8151	599980
LCS 480-599980/2-A	Lab Control Sample	Total/NA	Solid	8151	599980
LCSD 480-599980/3-A	Lab Control Sample Dup	Total/NA	Solid	8151	599980

Analysis Batch: 600157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	TCLP	Solid	8081B	600104
480-190600-2	IDW-04-10062021	TCLP	Solid	8081B	600104
480-190600-3	IDW-05-10062021	TCLP	Solid	8081B	600104
480-190600-4	IDW-06-10062021	TCLP	Solid	8081B	600104
480-190600-5	IDW-07-10062021	TCLP	Solid	8081B	600104
480-190600-6	IDW-08-10062021	TCLP	Solid	8081B	600104
LB 480-599813/1-E	Method Blank	TCLP	Solid	8081B	600104
MB 480-600104/1-A	Method Blank	Total/NA	Solid	8081B	600104
LCS 480-600104/2-A	Lab Control Sample	Total/NA	Solid	8081B	600104
LCSD 480-600104/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	600104

Metals

Leach Batch: 599813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	TCLP	Solid	1311	
480-190600-2	IDW-04-10062021	TCLP	Solid	1311	
480-190600-3	IDW-05-10062021	TCLP	Solid	1311	
480-190600-4	IDW-06-10062021	TCLP	Solid	1311	
480-190600-5	IDW-07-10062021	TCLP	Solid	1311	
480-190600-6	IDW-08-10062021	TCLP	Solid	1311	
LB 480-599813/1-B	Method Blank	TCLP	Solid	1311	
LB 480-599813/1-D	Method Blank	TCLP	Solid	1311	
480-190600-2 MS	IDW-04-10062021	TCLP	Solid	1311	
480-190600-2 MSD	IDW-04-10062021	TCLP	Solid	1311	

Prep Batch: 600032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	TCLP	Solid	3010A	599813
480-190600-2	IDW-04-10062021	TCLP	Solid	3010A	599813
480-190600-3	IDW-05-10062021	TCLP	Solid	3010A	599813
480-190600-4	IDW-06-10062021	TCLP	Solid	3010A	599813
480-190600-5	IDW-07-10062021	TCLP	Solid	3010A	599813
480-190600-6	IDW-08-10062021	TCLP	Solid	3010A	599813
LB 480-599813/1-B	Method Blank	TCLP	Solid	3010A	599813
MB 480-600032/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-600032/3-A	Lab Control Sample	Total/NA	Solid	3010A	
480-190600-2 MS	IDW-04-10062021	TCLP	Solid	3010A	599813

Metals (Continued)

Prep Batch: 600032 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-2 MSD	IDW-04-10062021	TCLP	Solid	3010A	599813

Prep Batch: 600075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	TCLP	Solid	7470A	599813
480-190600-2	IDW-04-10062021	TCLP	Solid	7470A	599813
480-190600-3	IDW-05-10062021	TCLP	Solid	7470A	599813
480-190600-4	IDW-06-10062021	TCLP	Solid	7470A	599813
480-190600-5	IDW-07-10062021	TCLP	Solid	7470A	599813
480-190600-6	IDW-08-10062021	TCLP	Solid	7470A	599813
LB 480-599813/1-D	Method Blank	TCLP	Solid	7470A	599813
MB 480-600075/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-600075/3-A	Lab Control Sample	Total/NA	Solid	7470A	
480-190600-2 MS	IDW-04-10062021	TCLP	Solid	7470A	599813
480-190600-2 MSD	IDW-04-10062021	TCLP	Solid	7470A	599813

Analysis Batch: 600145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	TCLP	Solid	7470A	600075
480-190600-2	IDW-04-10062021	TCLP	Solid	7470A	600075
480-190600-3	IDW-05-10062021	TCLP	Solid	7470A	600075
480-190600-4	IDW-06-10062021	TCLP	Solid	7470A	600075
480-190600-5	IDW-07-10062021	TCLP	Solid	7470A	600075
480-190600-6	IDW-08-10062021	TCLP	Solid	7470A	600075
LB 480-599813/1-D	Method Blank	TCLP	Solid	7470A	600075
MB 480-600075/2-A	Method Blank	Total/NA	Solid	7470A	600075
LCS 480-600075/3-A	Lab Control Sample	Total/NA	Solid	7470A	600075
480-190600-2 MS	IDW-04-10062021	TCLP	Solid	7470A	600075
480-190600-2 MSD	IDW-04-10062021	TCLP	Solid	7470A	600075

Analysis Batch: 600391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	TCLP	Solid	6010C	600032
480-190600-2	IDW-04-10062021	TCLP	Solid	6010C	600032
480-190600-3	IDW-05-10062021	TCLP	Solid	6010C	600032
480-190600-4	IDW-06-10062021	TCLP	Solid	6010C	600032
480-190600-5	IDW-07-10062021	TCLP	Solid	6010C	600032
480-190600-6	IDW-08-10062021	TCLP	Solid	6010C	600032
LB 480-599813/1-B	Method Blank	TCLP	Solid	6010C	600032
MB 480-600032/2-A	Method Blank	Total/NA	Solid	6010C	600032
LCS 480-600032/3-A	Lab Control Sample	Total/NA	Solid	6010C	600032
480-190600-2 MS	IDW-04-10062021	TCLP	Solid	6010C	600032
480-190600-2 MSD	IDW-04-10062021	TCLP	Solid	6010C	600032

General Chemistry

Analysis Batch: 599516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	Total/NA	Solid	Moisture	
480-190600-2	IDW-04-10062021	Total/NA	Solid	Moisture	
480-190600-3	IDW-05-10062021	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 599516 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-4	IDW-06-10062021	Total/NA	Solid	Moisture	
480-190600-5	IDW-07-10062021	Total/NA	Solid	Moisture	
480-190600-6	IDW-08-10062021	Total/NA	Solid	Moisture	
480-190600-6 MS	IDW-08-10062021	Total/NA	Solid	Moisture	
480-190600-6 MSD	IDW-08-10062021	Total/NA	Solid	Moisture	

Prep Batch: 600322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	Total/NA	Solid	7.3.3	
480-190600-2	IDW-04-10062021	Total/NA	Solid	7.3.3	
480-190600-3	IDW-05-10062021	Total/NA	Solid	7.3.3	
480-190600-4	IDW-06-10062021	Total/NA	Solid	7.3.3	
480-190600-5	IDW-07-10062021	Total/NA	Solid	7.3.3	
480-190600-6	IDW-08-10062021	Total/NA	Solid	7.3.3	
MB 480-600322/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-600322/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Prep Batch: 600323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	Total/NA	Solid	7.3.4	
480-190600-2	IDW-04-10062021	Total/NA	Solid	7.3.4	
480-190600-3	IDW-05-10062021	Total/NA	Solid	7.3.4	
480-190600-4	IDW-06-10062021	Total/NA	Solid	7.3.4	
480-190600-5	IDW-07-10062021	Total/NA	Solid	7.3.4	
480-190600-6	IDW-08-10062021	Total/NA	Solid	7.3.4	
MB 480-600323/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-600323/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Analysis Batch: 600324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	Total/NA	Solid	9045D	
480-190600-2	IDW-04-10062021	Total/NA	Solid	9045D	
480-190600-3	IDW-05-10062021	Total/NA	Solid	9045D	
480-190600-4	IDW-06-10062021	Total/NA	Solid	9045D	
480-190600-5	IDW-07-10062021	Total/NA	Solid	9045D	
480-190600-6	IDW-08-10062021	Total/NA	Solid	9045D	
LCS 480-600324/1	Lab Control Sample	Total/NA	Solid	9045D	

Analysis Batch: 600425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	Total/NA	Solid	9012	600322
480-190600-2	IDW-04-10062021	Total/NA	Solid	9012	600322
480-190600-3	IDW-05-10062021	Total/NA	Solid	9012	600322
480-190600-4	IDW-06-10062021	Total/NA	Solid	9012	600322
480-190600-5	IDW-07-10062021	Total/NA	Solid	9012	600322
480-190600-6	IDW-08-10062021	Total/NA	Solid	9012	600322
MB 480-600322/1-A	Method Blank	Total/NA	Solid	9012	600322
LCS 480-600322/2-A	Lab Control Sample	Total/NA	Solid	9012	600322

QC Association Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

General Chemistry

Analysis Batch: 600430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	Total/NA	Solid	9034	600323
480-190600-2	IDW-04-10062021	Total/NA	Solid	9034	600323
480-190600-3	IDW-05-10062021	Total/NA	Solid	9034	600323
480-190600-4	IDW-06-10062021	Total/NA	Solid	9034	600323
480-190600-5	IDW-07-10062021	Total/NA	Solid	9034	600323
480-190600-6	IDW-08-10062021	Total/NA	Solid	9034	600323
MB 480-600323/1-A	Method Blank	Total/NA	Solid	9034	600323
LCS 480-600323/2-A	Lab Control Sample	Total/NA	Solid	9034	600323

Analysis Batch: 600505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190600-1	IDW-03-10062021	Total/NA	Solid	1010A	
480-190600-2	IDW-04-10062021	Total/NA	Solid	1010A	
480-190600-3	IDW-05-10062021	Total/NA	Solid	1010A	
480-190600-4	IDW-06-10062021	Total/NA	Solid	1010A	
480-190600-5	IDW-07-10062021	Total/NA	Solid	1010A	
480-190600-6	IDW-08-10062021	Total/NA	Solid	1010A	
LCS 480-600505/1	Lab Control Sample	Total/NA	Solid	1010A	
480-190600-1 DU	IDW-03-10062021	Total/NA	Solid	1010A	

Client Sample ID: IDW-03-10062021

Lab Sample ID: 480-190600-1

Date Collected: 10/06/21 13:00

Matrix: Solid

Date Received: 10/07/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			599811	10/11/21 08:53	LMS	TAL BUF
TCLP	Analysis	8260C		10	600287	10/14/21 07:32	AXK	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3510C			600108	10/12/21 14:33	CMC	TAL BUF
TCLP	Analysis	8270D		1	600212	10/13/21 14:20	JMM	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3510C			600104	10/12/21 14:26	CMC	TAL BUF
TCLP	Analysis	8081B		1	600157	10/13/21 10:40	JLS	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	8151A			599980	10/12/21 10:31	JMP	TAL BUF
TCLP	Analysis	8151		1	600156	10/13/21 16:20	MAN	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3010A			600032	10/12/21 10:28	ADM	TAL BUF
TCLP	Analysis	6010C		1	600391	10/13/21 15:15	AMH	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	7470A			600075	10/12/21 14:04	BMB	TAL BUF
TCLP	Analysis	7470A		1	600145	10/12/21 18:04	BMB	TAL BUF
Total/NA	Analysis	1010A		1	600505	10/14/21 16:48	JGO	TAL BUF
Total/NA	Prep	7.3.3			600322	10/12/21 11:00	SRA	TAL BUF
Total/NA	Analysis	9012		1	600425	10/13/21 20:01	SRA	TAL BUF
Total/NA	Prep	7.3.4			600323	10/12/21 11:00	SRA	TAL BUF
Total/NA	Analysis	9034		1	600430	10/13/21 18:42	SRA	TAL BUF
Total/NA	Analysis	9045D		1	600324	10/13/21 15:00	CSS	TAL BUF
Total/NA	Analysis	Moisture		1	599516	10/07/21 16:26	IMZ	TAL BUF

Client Sample ID: IDW-04-10062021

Lab Sample ID: 480-190600-2

Date Collected: 10/06/21 13:10

Matrix: Solid

Date Received: 10/07/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			599811	10/11/21 08:53	LMS	TAL BUF
TCLP	Analysis	8260C		10	600287	10/14/21 07:56	AXK	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3510C			600108	10/12/21 14:33	CMC	TAL BUF
TCLP	Analysis	8270D		1	600212	10/13/21 14:44	JMM	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3510C			600104	10/12/21 14:26	CMC	TAL BUF
TCLP	Analysis	8081B		1	600157	10/13/21 11:00	JLS	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	8151A			599980	10/12/21 10:31	JMP	TAL BUF
TCLP	Analysis	8151		1	600156	10/13/21 16:50	MAN	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3010A			600032	10/12/21 10:28	ADM	TAL BUF
TCLP	Analysis	6010C		1	600391	10/13/21 15:19	AMH	TAL BUF

Lab Chronicle

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

Client Sample ID: IDW-04-10062021

Lab Sample ID: 480-190600-2

Date Collected: 10/06/21 13:10

Matrix: Solid

Date Received: 10/07/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	7470A			600075	10/12/21 14:04	BMB	TAL BUF
TCLP	Analysis	7470A		1	600145	10/12/21 18:05	BMB	TAL BUF
Total/NA	Analysis	1010A		1	600505	10/14/21 16:48	JGO	TAL BUF
Total/NA	Prep	7.3.3			600322	10/12/21 11:00	SRA	TAL BUF
Total/NA	Analysis	9012		1	600425	10/13/21 20:03	SRA	TAL BUF
Total/NA	Prep	7.3.4			600323	10/12/21 11:00	SRA	TAL BUF
Total/NA	Analysis	9034		1	600430	10/13/21 18:42	SRA	TAL BUF
Total/NA	Analysis	9045D		1	600324	10/13/21 15:00	CSS	TAL BUF
Total/NA	Analysis	Moisture		1	599516	10/07/21 16:26	IMZ	TAL BUF

Client Sample ID: IDW-05-10062021

Lab Sample ID: 480-190600-3

Date Collected: 10/06/21 13:20

Matrix: Solid

Date Received: 10/07/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			599811	10/11/21 08:53	LMS	TAL BUF
TCLP	Analysis	8260C		10	600287	10/14/21 08:19	AXK	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3510C			600108	10/12/21 14:33	CMC	TAL BUF
TCLP	Analysis	8270D		1	600212	10/13/21 15:08	JMM	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3510C			600104	10/12/21 14:26	CMC	TAL BUF
TCLP	Analysis	8081B		1	600157	10/13/21 11:20	JLS	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	8151A			599980	10/12/21 10:31	JMP	TAL BUF
TCLP	Analysis	8151		1	600156	10/13/21 17:19	MAN	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3010A			600032	10/12/21 10:28	ADM	TAL BUF
TCLP	Analysis	6010C		1	600391	10/13/21 15:50	AMH	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	7470A			600075	10/12/21 14:04	BMB	TAL BUF
TCLP	Analysis	7470A		1	600145	10/12/21 18:13	BMB	TAL BUF
Total/NA	Analysis	1010A		1	600505	10/14/21 16:48	JGO	TAL BUF
Total/NA	Prep	7.3.3			600322	10/12/21 11:00	SRA	TAL BUF
Total/NA	Analysis	9012		1	600425	10/13/21 20:04	SRA	TAL BUF
Total/NA	Prep	7.3.4			600323	10/12/21 11:00	SRA	TAL BUF
Total/NA	Analysis	9034		1	600430	10/13/21 18:42	SRA	TAL BUF
Total/NA	Analysis	9045D		1	600324	10/13/21 15:00	CSS	TAL BUF
Total/NA	Analysis	Moisture		1	599516	10/07/21 16:26	IMZ	TAL BUF

Client Sample ID: IDW-06-10062021

Lab Sample ID: 480-190600-4

Date Collected: 10/06/21 13:30

Matrix: Solid

Date Received: 10/07/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			599811	10/11/21 08:53	LMS	TAL BUF
TCLP	Analysis	8260C		10	600287	10/14/21 08:42	AXK	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3510C			600108	10/12/21 14:33	CMC	TAL BUF
TCLP	Analysis	8270D		1	600212	10/13/21 15:32	JMM	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3510C			600104	10/12/21 14:26	CMC	TAL BUF
TCLP	Analysis	8081B		1	600157	10/13/21 11:39	JLS	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	8151A			599980	10/12/21 10:31	JMP	TAL BUF
TCLP	Analysis	8151		1	600156	10/13/21 18:19	MAN	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3010A			600032	10/12/21 10:28	ADM	TAL BUF
TCLP	Analysis	6010C		1	600391	10/13/21 15:54	AMH	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	7470A			600075	10/12/21 14:04	BMB	TAL BUF
TCLP	Analysis	7470A		1	600145	10/12/21 18:14	BMB	TAL BUF
Total/NA	Analysis	1010A		1	600505	10/14/21 16:48	JGO	TAL BUF
Total/NA	Prep	7.3.3			600322	10/12/21 11:00	SRA	TAL BUF
Total/NA	Analysis	9012		1	600425	10/13/21 20:09	SRA	TAL BUF
Total/NA	Prep	7.3.4			600323	10/12/21 11:00	SRA	TAL BUF
Total/NA	Analysis	9034		1	600430	10/13/21 18:42	SRA	TAL BUF
Total/NA	Analysis	9045D		1	600324	10/13/21 15:00	CSS	TAL BUF
Total/NA	Analysis	Moisture		1	599516	10/07/21 16:26	IMZ	TAL BUF

Client Sample ID: IDW-07-10062021

Lab Sample ID: 480-190600-5

Date Collected: 10/06/21 13:45

Matrix: Solid

Date Received: 10/07/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			599811	10/11/21 08:53	LMS	TAL BUF
TCLP	Analysis	8260C		10	600287	10/14/21 09:05	AXK	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3510C			600108	10/12/21 14:33	CMC	TAL BUF
TCLP	Analysis	8270D		1	600212	10/13/21 15:56	JMM	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3510C			600104	10/12/21 14:26	CMC	TAL BUF
TCLP	Analysis	8081B		1	600157	10/13/21 11:59	JLS	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	8151A			599980	10/12/21 10:31	JMP	TAL BUF
TCLP	Analysis	8151		1	600156	10/13/21 18:49	MAN	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3010A			600032	10/12/21 10:28	ADM	TAL BUF
TCLP	Analysis	6010C		1	600391	10/13/21 15:58	AMH	TAL BUF

Lab Chronicle

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

Client Sample ID: IDW-07-10062021

Lab Sample ID: 480-190600-5

Date Collected: 10/06/21 13:45

Matrix: Solid

Date Received: 10/07/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	7470A			600075	10/12/21 14:04	BMB	TAL BUF
TCLP	Analysis	7470A		1	600145	10/12/21 18:15	BMB	TAL BUF
Total/NA	Analysis	1010A		1	600505	10/14/21 16:48	JGO	TAL BUF
Total/NA	Prep	7.3.3			600322	10/12/21 11:00	SRA	TAL BUF
Total/NA	Analysis	9012		1	600425	10/13/21 20:10	SRA	TAL BUF
Total/NA	Prep	7.3.4			600323	10/12/21 11:00	SRA	TAL BUF
Total/NA	Analysis	9034		1	600430	10/13/21 18:42	SRA	TAL BUF
Total/NA	Analysis	9045D		1	600324	10/13/21 15:00	CSS	TAL BUF
Total/NA	Analysis	Moisture		1	599516	10/07/21 16:26	IMZ	TAL BUF

Client Sample ID: IDW-08-10062021

Lab Sample ID: 480-190600-6

Date Collected: 10/06/21 13:55

Matrix: Solid

Date Received: 10/07/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			599811	10/11/21 08:53	LMS	TAL BUF
TCLP	Analysis	8260C		10	600287	10/14/21 09:28	AXK	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3510C			600108	10/12/21 14:33	CMC	TAL BUF
TCLP	Analysis	8270D		1	600212	10/13/21 16:20	JMM	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3510C			600104	10/12/21 14:26	CMC	TAL BUF
TCLP	Analysis	8081B		1	600157	10/13/21 12:18	JLS	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	8151A			599980	10/12/21 10:31	JMP	TAL BUF
TCLP	Analysis	8151		1	600156	10/13/21 19:18	MAN	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	3010A			600032	10/12/21 10:28	ADM	TAL BUF
TCLP	Analysis	6010C		1	600391	10/13/21 16:02	AMH	TAL BUF
TCLP	Leach	1311			599813	10/11/21 08:58	LMS	TAL BUF
TCLP	Prep	7470A			600075	10/12/21 14:04	BMB	TAL BUF
TCLP	Analysis	7470A		1	600145	10/12/21 18:17	BMB	TAL BUF
Total/NA	Analysis	1010A		1	600505	10/14/21 16:48	JGO	TAL BUF
Total/NA	Prep	7.3.3			600322	10/12/21 11:00	SRA	TAL BUF
Total/NA	Analysis	9012		1	600425	10/13/21 20:11	SRA	TAL BUF
Total/NA	Prep	7.3.4			600323	10/12/21 11:00	SRA	TAL BUF
Total/NA	Analysis	9034		1	600430	10/13/21 18:42	SRA	TAL BUF
Total/NA	Analysis	9045D		1	600324	10/13/21 15:00	CSS	TAL BUF
Total/NA	Analysis	Moisture		1	599516	10/07/21 16:26	IMZ	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Parsons Corporation
Job ID: 480-190600-1
Project/Site: Avangrid - Clark Street

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

Method	Method Description	Protocol	Laboratory
8260C	TCLP Volatiles	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8151	TCLP Herbicides	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	TCLP Mercury	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
1311	TCLP Extraction	SW846	TAL BUF
3010A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7.3.3	Cyanide, Reactive	SW846	TAL BUF
7.3.4	Sulfide, Reactive	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
8151A	Extraction (Herbicides)	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190600-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-190600-1	IDW-03-10062021	Solid	10/06/21 13:00	10/07/21 10:00
480-190600-2	IDW-04-10062021	Solid	10/06/21 13:10	10/07/21 10:00
480-190600-3	IDW-05-10062021	Solid	10/06/21 13:20	10/07/21 10:00
480-190600-4	IDW-06-10062021	Solid	10/06/21 13:30	10/07/21 10:00
480-190600-5	IDW-07-10062021	Solid	10/06/21 13:45	10/07/21 10:00
480-190600-6	IDW-08-10062021	Solid	10/06/21 13:55	10/07/21 10:00

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Zack Cornish	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-166079-36392.1
Client Contact: Cathy Adamitis	Phone: 607-354-6482	E-Mail: John.Schove@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Parsons Corporation	PWSID:			Job #:

Address: 301 Plainfield Road Suite 350	Due Date Requested:	Analysis Requested
City: Syracuse	TAT Requested (days): 10 DAY	
State, Zip: NY, 13212	Compliance Project: Δ Yes Δ No	
Phone:	PO #: 452562.452563..60214.07	
Email: catherine.adamitis@parsons.com	WO #: 45262.03000	
Project Name: Avangrid - Clark Street	Project #: 48024389	
Site: 211 Clark St, Auburn NY	SSOW#:	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012_ReactiveCN, 9034_Reactive	6010C, 7470A, 8081B, 8151A, 8270D	8260C - TCLP Volatiles	1010A, 9045D	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
IDW-03-10062021	10/6/21	1300	C	Solid	N	N	1	1	1	1	4	RW1 + RW2
IDW-04-10062021	10/6/21	1310	C	Solid	N	N	1	1	1	1	4	RW3 + RW4
IDW-05-10062021	10/6/21	1320	C	Solid	N	N	1	1	1	1	4	RW5 + RW6
IDW-06-10062021	10/6/21	1330	C	Solid	N	N	1	1	1	1	4	RW7 + RW8
IDW-07-10062021	10/6/21	1345	C	Solid	N	N	1	1	1	1	4	RW9 + RW10
IDW-08-10062021	10/6/21	1355	C	Solid	N	N	1	1	1	1	4	Decon

480-190600 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Zack Cornish	Date/Time: 10/6/2021 1900	Company: Parsons	Received by: Cwattales	Date/Time: 10/7/21 1000	Company: TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.9

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-190600-1

Login Number: 190600
List Number: 1
Creator: Sabuda, Brendan D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-190791-1
Client Project/Site: Avangrid - Clark Street

For:
Parsons Corporation
301 Plainfield Road
Suite 350
Syracuse, New York 13212

Attn: Cathy Adamitis

Authorized for release by:
10/20/2021 11:08:29 AM

John Schove, Project Manager II
(716)504-9838
John.Schove@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190791-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-190791-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-190791-1

Comments
No additional comments.

Receipt
The samples were received on 10/12/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 16.8º C.

Receipt Exceptions

Due to a FedEx network delay the following samples were received at the laboratory without the original shipping label and outside the required temperature criteria: IDW-01-10062021 (480-190791-1), IDW-02-10062021 (480-190791-2) and TRIP BLANK (480-190791-3).

A Chain-of-Custody (COC) was not received with these samples: IDW-01-10062021 (480-190791-1), IDW-02-10062021 (480-190791-2) and TRIP BLANK (480-190791-3). The information listed on the sample containers was used for sample login.

GC/MS VOA
Method 8260C: The following samples were diluted due to the abundance of non-target analytes: IDW-01-10062021 (480-190791-1), IDW-02-10062021 (480-190791-2), (480-190791-N-1 MS) and (480-190791-N-1 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: IDW-01-10062021 (480-190791-1) and IDW-02-10062021 (480-190791-2). Elevated reporting limits (RLs) are provided.

Method 8270D: The following samples required a dilution due to the abundance of target analytes: IDW-01-10062021 (480-190791-1) and IDW-02-10062021 (480-190791-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-600567 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190791-1

Client Sample ID: IDW-01-10062021 — Lab Sample ID: 480-190791-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	120		20	8.2	ug/L	20		8260C	Total/NA
Ethylbenzene	140		20	15	ug/L	20		8260C	Total/NA
Toluene	11	J	20	10	ug/L	20		8260C	Total/NA
Xylenes, Total	130		40	13	ug/L	20		8260C	Total/NA
2,4-Dimethylphenol	2.2	J	5.0	0.50	ug/L	1		8270D	Total/NA
2-Methylnaphthalene	83	E	5.0	0.60	ug/L	1		8270D	Total/NA
2-Methylphenol	0.85	J	5.0	0.40	ug/L	1		8270D	Total/NA
4-Methylphenol	22		10	0.36	ug/L	1		8270D	Total/NA
Acenaphthene	140	E	5.0	0.41	ug/L	1		8270D	Total/NA
Acenaphthylene	2.9	J	5.0	0.38	ug/L	1		8270D	Total/NA
Acetophenone	5.2		5.0	0.54	ug/L	1		8270D	Total/NA
Anthracene	6.8		5.0	0.28	ug/L	1		8270D	Total/NA
Benzo(a)anthracene	0.39	J	5.0	0.36	ug/L	1		8270D	Total/NA
Biphenyl	23		5.0	0.65	ug/L	1		8270D	Total/NA
Carbazole	2.8	J	5.0	0.30	ug/L	1		8270D	Total/NA
Dibenzofuran	3.9	J	10	0.51	ug/L	1		8270D	Total/NA
Diethyl phthalate	530	E	5.0	0.22	ug/L	1		8270D	Total/NA
Fluoranthene	5.7		5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	37		5.0	0.36	ug/L	1		8270D	Total/NA
Isophorone	0.93	J	5.0	0.43	ug/L	1		8270D	Total/NA
Naphthalene	320	E	5.0	0.76	ug/L	1		8270D	Total/NA
Phenanthrene	62		5.0	0.44	ug/L	1		8270D	Total/NA
Phenol	2.8	J	5.0	0.39	ug/L	1		8270D	Total/NA
Pyrene	7.3		5.0	0.34	ug/L	1		8270D	Total/NA
2-Methylnaphthalene - DL	85	J	250	30	ug/L	50		8270D	Total/NA
4-Methylphenol - DL	19	J	500	18	ug/L	50		8270D	Total/NA
Acenaphthene - DL	160	J	250	21	ug/L	50		8270D	Total/NA
Diethyl phthalate - DL	900		250	11	ug/L	50		8270D	Total/NA
Fluorene - DL	41	J	250	18	ug/L	50		8270D	Total/NA
Naphthalene - DL	730		250	38	ug/L	50		8270D	Total/NA
Phenanthrene - DL	68	J	250	22	ug/L	50		8270D	Total/NA
4,4'-DDD	0.017	J	0.050	0.0092	ug/L	1		8081B	Total/NA
Aldrin	0.0096	J	0.050	0.0081	ug/L	1		8081B	Total/NA
Endosulfan II	0.014	J	0.050	0.012	ug/L	1		8081B	Total/NA
gamma-BHC (Lindane)	0.017	J	0.050	0.0080	ug/L	1		8081B	Total/NA
Picloram	0.50	J	0.51	0.073	ug/L	1		8151A	Total/NA
Barium	0.13		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00050	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Chromium	0.0022	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Flashpoint	>175		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.89	HF *+	0.100	0.100	SU	1		9040C	Total/NA
Temperature	16.9	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA

Client Sample ID: IDW-02-10062021 — Lab Sample ID: 480-190791-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	40		25	19	ug/L	25		8260C	Total/NA
Xylenes, Total	51		50	17	ug/L	25		8260C	Total/NA
2-Methylnaphthalene	99	E	5.0	0.60	ug/L	1		8270D	Total/NA
4-Methylphenol	3.1	J	10	0.36	ug/L	1		8270D	Total/NA
Acenaphthene	120	E	5.0	0.41	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IDW-02-10062021 (Continued)

Lab Sample ID: 480-190791-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	2.5	J	5.0	0.38	ug/L	1		8270D	Total/NA
Acetophenone	1.3	J	5.0	0.54	ug/L	1		8270D	Total/NA
Anthracene	14		5.0	0.28	ug/L	1		8270D	Total/NA
Benzo(a)anthracene	2.5	J	5.0	0.36	ug/L	1		8270D	Total/NA
Biphenyl	22		5.0	0.65	ug/L	1		8270D	Total/NA
Carbazole	2.6	J	5.0	0.30	ug/L	1		8270D	Total/NA
Chrysene	1.7	J	5.0	0.33	ug/L	1		8270D	Total/NA
Dibenzofuran	4.6	J	10	0.51	ug/L	1		8270D	Total/NA
Diethyl phthalate	0.54	J	5.0	0.22	ug/L	1		8270D	Total/NA
Fluoranthene	18		5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	39		5.0	0.36	ug/L	1		8270D	Total/NA
Naphthalene	420	E	5.0	0.76	ug/L	1		8270D	Total/NA
Phenanthrene	100	E	5.0	0.44	ug/L	1		8270D	Total/NA
Phenol	11		5.0	0.39	ug/L	1		8270D	Total/NA
Pyrene	24		5.0	0.34	ug/L	1		8270D	Total/NA
2-Methylnaphthalene - DL	92	J	250	30	ug/L	50		8270D	Total/NA
Acenaphthene - DL	130	J	250	21	ug/L	50		8270D	Total/NA
Fluorene - DL	33	J	250	18	ug/L	50		8270D	Total/NA
Naphthalene - DL	1200		250	38	ug/L	50		8270D	Total/NA
Phenanthrene - DL	110	J	250	22	ug/L	50		8270D	Total/NA
Pyrene - DL	21	J	250	17	ug/L	50		8270D	Total/NA
4,4'-DDE	0.017	J	0.050	0.012	ug/L	1		8081B	Total/NA
4,4'-DDT	0.047	J	0.050	0.011	ug/L	1		8081B	Total/NA
Endosulfan I	0.031	J	0.050	0.011	ug/L	1		8081B	Total/NA
Endrin	0.047	J	0.050	0.014	ug/L	1		8081B	Total/NA
Endrin aldehyde	0.035	J	0.050	0.016	ug/L	1		8081B	Total/NA
gamma-BHC (Lindane)	0.010	J	0.050	0.0080	ug/L	1		8081B	Total/NA
Methoxychlor	0.036	J	0.050	0.014	ug/L	1		8081B	Total/NA
Barium	0.12		0.0020	0.00070	mg/L	1		6010C	Total/NA
Flashpoint	>175		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	9.82	HF *+	0.100	0.100	SU	1		9040C	Total/NA
Temperature	17.1	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-190791-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190791-1

Client Sample ID: IDW-01-10062021
Date Collected: 10/06/21 09:30
Date Received: 10/12/21 10:00

Lab Sample ID: 480-190791-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	20	U	20	16	ug/L			10/14/21 12:25	20
1,1,2,2-Tetrachloroethane	20	U	20	4.2	ug/L			10/14/21 12:25	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20	6.2	ug/L			10/14/21 12:25	20
1,1,2-Trichloroethane	20	U	20	4.6	ug/L			10/14/21 12:25	20
1,1-Dichloroethane	20	U	20	7.6	ug/L			10/14/21 12:25	20
1,1-Dichloroethene	20	U	20	5.8	ug/L			10/14/21 12:25	20
1,2,4-Trichlorobenzene	20	U	20	8.2	ug/L			10/14/21 12:25	20
1,2-Dibromo-3-Chloropropane	20	U	20	7.8	ug/L			10/14/21 12:25	20
1,2-Dibromoethane	20	U	20	15	ug/L			10/14/21 12:25	20
1,2-Dichlorobenzene	20	U	20	16	ug/L			10/14/21 12:25	20
1,2-Dichloroethane	20	U	20	4.2	ug/L			10/14/21 12:25	20
1,2-Dichloropropane	20	U	20	14	ug/L			10/14/21 12:25	20
1,3-Dichlorobenzene	20	U	20	16	ug/L			10/14/21 12:25	20
1,4-Dichlorobenzene	20	U	20	17	ug/L			10/14/21 12:25	20
2-Butanone (MEK)	200	U	200	26	ug/L			10/14/21 12:25	20
2-Hexanone	100	U	100	25	ug/L			10/14/21 12:25	20
4-Methyl-2-pentanone (MIBK)	100	U	100	42	ug/L			10/14/21 12:25	20
Acetone	200	U	200	60	ug/L			10/14/21 12:25	20
Benzene	**120**		20	8.2	ug/L			10/14/21 12:25	20
Bromodichloromethane	20	U	20	7.8	ug/L			10/14/21 12:25	20
Bromoform	20	U	20	5.2	ug/L			10/14/21 12:25	20
Bromomethane	20	U	20	14	ug/L			10/14/21 12:25	20
Carbon disulfide	20	U	20	3.8	ug/L			10/14/21 12:25	20
Carbon tetrachloride	20	U	20	5.4	ug/L			10/14/21 12:25	20
Chlorobenzene	20	U	20	15	ug/L			10/14/21 12:25	20
Chloroethane	20	U	20	6.4	ug/L			10/14/21 12:25	20
Chloroform	20	U	20	6.8	ug/L			10/14/21 12:25	20
Chloromethane	20	U	20	7.0	ug/L			10/14/21 12:25	20
cis-1,2-Dichloroethene	20	U	20	16	ug/L			10/14/21 12:25	20
cis-1,3-Dichloropropene	20	U	20	7.2	ug/L			10/14/21 12:25	20
Cyclohexane	20	U	20	3.6	ug/L			10/14/21 12:25	20
Dibromochloromethane	20	U	20	6.4	ug/L			10/14/21 12:25	20
Dichlorodifluoromethane	20	U	20	14	ug/L			10/14/21 12:25	20
Ethylbenzene	**140**		20	15	ug/L			10/14/21 12:25	20
Isopropylbenzene	20	U	20	16	ug/L			10/14/21 12:25	20
Methyl acetate	50	U	50	26	ug/L			10/14/21 12:25	20
Methyl tert-butyl ether	20	U	20	3.2	ug/L			10/14/21 12:25	20
Methylcyclohexane	20	U	20	3.2	ug/L			10/14/21 12:25	20
Methylene Chloride	20	U	20	8.8	ug/L			10/14/21 12:25	20
Styrene	20	U	20	15	ug/L			10/14/21 12:25	20
Tetrachloroethene	20	U	20	7.2	ug/L			10/14/21 12:25	20
Toluene	**11**	**J**	20	10	ug/L			10/14/21 12:25	20
trans-1,2-Dichloroethene	20	U	20	18	ug/L			10/14/21 12:25	20
trans-1,3-Dichloropropene	20	U	20	7.4	ug/L			10/14/21 12:25	20
Trichloroethene	20	U	20	9.2	ug/L			10/14/21 12:25	20
Trichlorofluoromethane	20	U	20	18	ug/L			10/14/21 12:25	20
Vinyl chloride	20	U	20	18	ug/L			10/14/21 12:25	20
Xylenes, Total	**130**		40	13	ug/L			10/14/21 12:25	20

Client Sample ID: IDW-01-10062021

Date Collected: 10/06/21 09:30
Date Received: 10/12/21 10:00

Lab Sample ID: 480-190791-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*10/14/21 12:25*	*20*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*10/14/21 12:25*	*20*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*10/14/21 12:25*	*20*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/14/21 12:25*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	5.0	U	5.0	0.48	ug/L		10/13/21 14:36	10/14/21 19:52	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.61	ug/L		10/13/21 14:36	10/14/21 19:52	1
2,4-Dichlorophenol	5.0	U	5.0	0.51	ug/L		10/13/21 14:36	10/14/21 19:52	1
2,4-Dimethylphenol	**2.2**	**J**	5.0	0.50	ug/L		10/13/21 14:36	10/14/21 19:52	1
2,4-Dinitrophenol	10	U	10	2.2	ug/L		10/13/21 14:36	10/14/21 19:52	1
2,4-Dinitrotoluene	5.0	U	5.0	0.45	ug/L		10/13/21 14:36	10/14/21 19:52	1
2,6-Dinitrotoluene	5.0	U	5.0	0.40	ug/L		10/13/21 14:36	10/14/21 19:52	1
2-Chloronaphthalene	5.0	U	5.0	0.46	ug/L		10/13/21 14:36	10/14/21 19:52	1
2-Chlorophenol	5.0	U	5.0	0.53	ug/L		10/13/21 14:36	10/14/21 19:52	1
2-Methylnaphthalene	**83**	**E**	5.0	0.60	ug/L		10/13/21 14:36	10/14/21 19:52	1
2-Methylphenol	**0.85**	**J**	5.0	0.40	ug/L		10/13/21 14:36	10/14/21 19:52	1
2-Nitroaniline	10	U	10	0.42	ug/L		10/13/21 14:36	10/14/21 19:52	1
2-Nitrophenol	5.0	U	5.0	0.48	ug/L		10/13/21 14:36	10/14/21 19:52	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.40	ug/L		10/13/21 14:36	10/14/21 19:52	1
3-Nitroaniline	10	U	10	0.48	ug/L		10/13/21 14:36	10/14/21 19:52	1
4,6-Dinitro-2-methylphenol	10	U	10	2.2	ug/L		10/13/21 14:36	10/14/21 19:52	1
4-Bromophenyl phenyl ether	5.0	U	5.0	0.45	ug/L		10/13/21 14:36	10/14/21 19:52	1
4-Chloro-3-methylphenol	5.0	U	5.0	0.45	ug/L		10/13/21 14:36	10/14/21 19:52	1
4-Chloroaniline	5.0	U	5.0	0.59	ug/L		10/13/21 14:36	10/14/21 19:52	1
4-Chlorophenyl phenyl ether	5.0	U	5.0	0.35	ug/L		10/13/21 14:36	10/14/21 19:52	1
4-Methylphenol	**22**		10	0.36	ug/L		10/13/21 14:36	10/14/21 19:52	1
4-Nitroaniline	10	U	10	0.25	ug/L		10/13/21 14:36	10/14/21 19:52	1
4-Nitrophenol	10	U	10	1.5	ug/L		10/13/21 14:36	10/14/21 19:52	1
Acenaphthene	**140**	**E**	5.0	0.41	ug/L		10/13/21 14:36	10/14/21 19:52	1
Acenaphthylene	**2.9**	**J**	5.0	0.38	ug/L		10/13/21 14:36	10/14/21 19:52	1
Acetophenone	**5.2**		5.0	0.54	ug/L		10/13/21 14:36	10/14/21 19:52	1
Anthracene	**6.8**		5.0	0.28	ug/L		10/13/21 14:36	10/14/21 19:52	1
Atrazine	5.0	U	5.0	0.46	ug/L		10/13/21 14:36	10/14/21 19:52	1
Benzaldehyde	5.0	U	5.0	0.27	ug/L		10/13/21 14:36	10/14/21 19:52	1
Benzo(a)anthracene	**0.39**	**J**	5.0	0.36	ug/L		10/13/21 14:36	10/14/21 19:52	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		10/13/21 14:36	10/14/21 19:52	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		10/13/21 14:36	10/14/21 19:52	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		10/13/21 14:36	10/14/21 19:52	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		10/13/21 14:36	10/14/21 19:52	1
Biphenyl	**23**		5.0	0.65	ug/L		10/13/21 14:36	10/14/21 19:52	1
bis (2-chloroisopropyl) ether	5.0	U	5.0	0.52	ug/L		10/13/21 14:36	10/14/21 19:52	1
Bis(2-chloroethoxy)methane	5.0	U	5.0	0.35	ug/L		10/13/21 14:36	10/14/21 19:52	1
Bis(2-chloroethyl)ether	5.0	U	5.0	0.40	ug/L		10/13/21 14:36	10/14/21 19:52	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.2	ug/L		10/13/21 14:36	10/14/21 19:52	1
Butyl benzyl phthalate	5.0	U	5.0	1.0	ug/L		10/13/21 14:36	10/14/21 19:52	1
Caprolactam	5.0	U	5.0	2.2	ug/L		10/13/21 14:36	10/14/21 19:52	1
Carbazole	**2.8**	**J**	5.0	0.30	ug/L		10/13/21 14:36	10/14/21 19:52	1
Chrysene	5.0	U	5.0	0.33	ug/L		10/13/21 14:36	10/14/21 19:52	1

Client Sample ID: IDW-01-10062021

Date Collected: 10/06/21 09:30
Date Received: 10/12/21 10:00

Lab Sample ID: 480-190791-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		10/13/21 14:36	10/14/21 19:52	1
Dibenzofuran	**3.9**	**J**	10	0.51	ug/L		10/13/21 14:36	10/14/21 19:52	1
Diethyl phthalate	**530**	**E**	5.0	0.22	ug/L		10/13/21 14:36	10/14/21 19:52	1
Dimethyl phthalate	5.0	U	5.0	0.36	ug/L		10/13/21 14:36	10/14/21 19:52	1
Di-n-butyl phthalate	5.0	U	5.0	0.31	ug/L		10/13/21 14:36	10/14/21 19:52	1
Di-n-octyl phthalate	5.0	U	5.0	0.47	ug/L		10/13/21 14:36	10/14/21 19:52	1
Fluoranthene	**5.7**		5.0	0.40	ug/L		10/13/21 14:36	10/14/21 19:52	1
Fluorene	**37**		5.0	0.36	ug/L		10/13/21 14:36	10/14/21 19:52	1
Hexachlorobenzene	5.0	U	5.0	0.51	ug/L		10/13/21 14:36	10/14/21 19:52	1
Hexachlorobutadiene	5.0	U	5.0	0.68	ug/L		10/13/21 14:36	10/14/21 19:52	1
Hexachlorocyclopentadiene	5.0	U	5.0	0.59	ug/L		10/13/21 14:36	10/14/21 19:52	1
Hexachloroethane	5.0	U	5.0	0.59	ug/L		10/13/21 14:36	10/14/21 19:52	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		10/13/21 14:36	10/14/21 19:52	1
Isophorone	**0.93**	**J**	5.0	0.43	ug/L		10/13/21 14:36	10/14/21 19:52	1
Naphthalene	**320**	**E**	5.0	0.76	ug/L		10/13/21 14:36	10/14/21 19:52	1
Nitrobenzene	5.0	U	5.0	0.29	ug/L		10/13/21 14:36	10/14/21 19:52	1
N-Nitrosodi-n-propylamine	5.0	U	5.0	0.54	ug/L		10/13/21 14:36	10/14/21 19:52	1
N-Nitrosodiphenylamine	5.0	U	5.0	0.51	ug/L		10/13/21 14:36	10/14/21 19:52	1
Pentachlorophenol	10	U	10	2.2	ug/L		10/13/21 14:36	10/14/21 19:52	1
Phenanthrene	**62**		5.0	0.44	ug/L		10/13/21 14:36	10/14/21 19:52	1
Phenol	**2.8**	**J**	5.0	0.39	ug/L		10/13/21 14:36	10/14/21 19:52	1
Pyrene	**7.3**		5.0	0.34	ug/L		10/13/21 14:36	10/14/21 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*114*		*41 - 120*	*10/13/21 14:36*	*10/14/21 19:52*	*1*
2-Fluorobiphenyl	*102*		*48 - 120*	*10/13/21 14:36*	*10/14/21 19:52*	*1*
2-Fluorophenol	*75*		*35 - 120*	*10/13/21 14:36*	*10/14/21 19:52*	*1*
Nitrobenzene-d5 (Surr)	*93*		*46 - 120*	*10/13/21 14:36*	*10/14/21 19:52*	*1*
Phenol-d5	*55*		*22 - 120*	*10/13/21 14:36*	*10/14/21 19:52*	*1*
p-Terphenyl-d14 (Surr)	*86*		*60 - 148*	*10/13/21 14:36*	*10/14/21 19:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	250	U	250	24	ug/L		10/13/21 14:36	10/15/21 20:52	50
2,4,6-Trichlorophenol	250	U	250	31	ug/L		10/13/21 14:36	10/15/21 20:52	50
2,4-Dichlorophenol	250	U	250	26	ug/L		10/13/21 14:36	10/15/21 20:52	50
2,4-Dimethylphenol	250	U	250	25	ug/L		10/13/21 14:36	10/15/21 20:52	50
2,4-Dinitrophenol	500	U	500	110	ug/L		10/13/21 14:36	10/15/21 20:52	50
2,4-Dinitrotoluene	250	U	250	22	ug/L		10/13/21 14:36	10/15/21 20:52	50
2,6-Dinitrotoluene	250	U	250	20	ug/L		10/13/21 14:36	10/15/21 20:52	50
2-Chloronaphthalene	250	U	250	23	ug/L		10/13/21 14:36	10/15/21 20:52	50
2-Chlorophenol	250	U	250	27	ug/L		10/13/21 14:36	10/15/21 20:52	50
2-Methylnaphthalene	**85**	**J**	250	30	ug/L		10/13/21 14:36	10/15/21 20:52	50
2-Methylphenol	250	U	250	20	ug/L		10/13/21 14:36	10/15/21 20:52	50
2-Nitroaniline	500	U	500	21	ug/L		10/13/21 14:36	10/15/21 20:52	50
2-Nitrophenol	250	U	250	24	ug/L		10/13/21 14:36	10/15/21 20:52	50
3,3'-Dichlorobenzidine	250	U	250	20	ug/L		10/13/21 14:36	10/15/21 20:52	50
3-Nitroaniline	500	U	500	24	ug/L		10/13/21 14:36	10/15/21 20:52	50
4,6-Dinitro-2-methylphenol	500	U	500	110	ug/L		10/13/21 14:36	10/15/21 20:52	50
4-Bromophenyl phenyl ether	250	U	250	23	ug/L		10/13/21 14:36	10/15/21 20:52	50

Client Sample ID: IDW-01-10062021
Date Collected: 10/06/21 09:30
Date Received: 10/12/21 10:00

Lab Sample ID: 480-190791-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	250	U	250	23	ug/L		10/13/21 14:36	10/15/21 20:52	50
4-Chloroaniline	250	U	250	30	ug/L		10/13/21 14:36	10/15/21 20:52	50
4-Chlorophenyl phenyl ether	250	U	250	18	ug/L		10/13/21 14:36	10/15/21 20:52	50
4-Methylphenol	**19**	**J**	500	18	ug/L		10/13/21 14:36	10/15/21 20:52	50
4-Nitroaniline	500	U	500	13	ug/L		10/13/21 14:36	10/15/21 20:52	50
4-Nitrophenol	500	U	500	76	ug/L		10/13/21 14:36	10/15/21 20:52	50
Acenaphthene	**160**	**J**	250	21	ug/L		10/13/21 14:36	10/15/21 20:52	50
Acenaphthylene	250	U	250	19	ug/L		10/13/21 14:36	10/15/21 20:52	50
Acetophenone	250	U	250	27	ug/L		10/13/21 14:36	10/15/21 20:52	50
Anthracene	250	U	250	14	ug/L		10/13/21 14:36	10/15/21 20:52	50
Atrazine	250	U	250	23	ug/L		10/13/21 14:36	10/15/21 20:52	50
Benzaldehyde	250	U	250	13	ug/L		10/13/21 14:36	10/15/21 20:52	50
Benzo(a)anthracene	250	U	250	18	ug/L		10/13/21 14:36	10/15/21 20:52	50
Benzo(a)pyrene	250	U	250	24	ug/L		10/13/21 14:36	10/15/21 20:52	50
Benzo(b)fluoranthene	250	U	250	17	ug/L		10/13/21 14:36	10/15/21 20:52	50
Benzo(g,h,i) perylene	250	U	250	18	ug/L		10/13/21 14:36	10/15/21 20:52	50
Benzo(k)fluoranthene	250	U	250	37	ug/L		10/13/21 14:36	10/15/21 20:52	50
Biphenyl	250	U	250	33	ug/L		10/13/21 14:36	10/15/21 20:52	50
bis (2-chloroisopropyl) ether	250	U	250	26	ug/L		10/13/21 14:36	10/15/21 20:52	50
Bis(2-chloroethoxy)methane	250	U	250	18	ug/L		10/13/21 14:36	10/15/21 20:52	50
Bis(2-chloroethyl)ether	250	U	250	20	ug/L		10/13/21 14:36	10/15/21 20:52	50
Bis(2-ethylhexyl) phthalate	250	U	250	110	ug/L		10/13/21 14:36	10/15/21 20:52	50
Butyl benzyl phthalate	250	U	250	50	ug/L		10/13/21 14:36	10/15/21 20:52	50
Caprolactam	250	U	250	110	ug/L		10/13/21 14:36	10/15/21 20:52	50
Carbazole	250	U	250	15	ug/L		10/13/21 14:36	10/15/21 20:52	50
Chrysene	250	U	250	17	ug/L		10/13/21 14:36	10/15/21 20:52	50
Dibenz(a,h)anthracene	250	U	250	21	ug/L		10/13/21 14:36	10/15/21 20:52	50
Dibenzofuran	500	U	500	26	ug/L		10/13/21 14:36	10/15/21 20:52	50
Diethyl phthalate	**900**		250	11	ug/L		10/13/21 14:36	10/15/21 20:52	50
Dimethyl phthalate	250	U	250	18	ug/L		10/13/21 14:36	10/15/21 20:52	50
Di-n-butyl phthalate	250	U	250	16	ug/L		10/13/21 14:36	10/15/21 20:52	50
Di-n-octyl phthalate	250	U	250	24	ug/L		10/13/21 14:36	10/15/21 20:52	50
Fluoranthene	250	U	250	20	ug/L		10/13/21 14:36	10/15/21 20:52	50
Fluorene	**41**	**J**	250	18	ug/L		10/13/21 14:36	10/15/21 20:52	50
Hexachlorobenzene	250	U	250	26	ug/L		10/13/21 14:36	10/15/21 20:52	50
Hexachlorobutadiene	250	U	250	34	ug/L		10/13/21 14:36	10/15/21 20:52	50
Hexachlorocyclopentadiene	250	U	250	30	ug/L		10/13/21 14:36	10/15/21 20:52	50
Hexachloroethane	250	U	250	30	ug/L		10/13/21 14:36	10/15/21 20:52	50
Ideno(1,2,3-cd)pyrene	250	U	250	24	ug/L		10/13/21 14:36	10/15/21 20:52	50
Isophorone	250	U	250	22	ug/L		10/13/21 14:36	10/15/21 20:52	50
Naphthalene	**730**		250	38	ug/L		10/13/21 14:36	10/15/21 20:52	50
Nitrobenzene	250	U	250	15	ug/L		10/13/21 14:36	10/15/21 20:52	50
N-Nitrosodi-n-propylamine	250	U	250	27	ug/L		10/13/21 14:36	10/15/21 20:52	50
N-Nitrosodiphenylamine	250	U	250	26	ug/L		10/13/21 14:36	10/15/21 20:52	50
Pentachlorophenol	500	U	500	110	ug/L		10/13/21 14:36	10/15/21 20:52	50
Phenanthrene	**68**	**J**	250	22	ug/L		10/13/21 14:36	10/15/21 20:52	50
Phenol	250	U	250	20	ug/L		10/13/21 14:36	10/15/21 20:52	50
Pyrene	250	U	250	17	ug/L		10/13/21 14:36	10/15/21 20:52	50

Client Sample ID: IDW-01-10062021

Date Collected: 10/06/21 09:30
Date Received: 10/12/21 10:00

Lab Sample ID: 480-190791-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*174*	*S1+*	*41 - 120*	*10/13/21 14:36*	*10/15/21 20:52*	*50*
2-Fluorobiphenyl	*107*		*48 - 120*	*10/13/21 14:36*	*10/15/21 20:52*	*50*
2-Fluorophenol	*91*		*35 - 120*	*10/13/21 14:36*	*10/15/21 20:52*	*50*
Nitrobenzene-d5 (Surr)	*114*		*46 - 120*	*10/13/21 14:36*	*10/15/21 20:52*	*50*
Phenol-d5	*46*		*22 - 120*	*10/13/21 14:36*	*10/15/21 20:52*	*50*
p-Terphenyl-d14 (Surr)	*83*		*60 - 148*	*10/13/21 14:36*	*10/15/21 20:52*	*50*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**0.017**	**J**	0.050	0.0092	ug/L		10/13/21 14:43	10/14/21 10:32	1
4,4'-DDE	0.050	U	0.050	0.012	ug/L		10/13/21 14:43	10/14/21 10:32	1
4,4'-DDT	0.050	U	0.050	0.011	ug/L		10/13/21 14:43	10/14/21 10:32	1
Aldrin	**0.0096**	**J**	0.050	0.0081	ug/L		10/13/21 14:43	10/14/21 10:32	1
alpha-BHC	0.050	U	0.050	0.0077	ug/L		10/13/21 14:43	10/14/21 10:32	1
beta-BHC	0.050	U	0.050	0.025	ug/L		10/13/21 14:43	10/14/21 10:32	1
cis-Chlordane	0.050	U	0.050	0.015	ug/L		10/13/21 14:43	10/14/21 10:32	1
delta-BHC	0.050	U	0.050	0.010	ug/L		10/13/21 14:43	10/14/21 10:32	1
Dieldrin	0.050	U	0.050	0.0098	ug/L		10/13/21 14:43	10/14/21 10:32	1
Endosulfan I	0.050	U	0.050	0.011	ug/L		10/13/21 14:43	10/14/21 10:32	1
Endosulfan II	**0.014**	**J**	0.050	0.012	ug/L		10/13/21 14:43	10/14/21 10:32	1
Endosulfan sulfate	0.050	U	0.050	0.016	ug/L		10/13/21 14:43	10/14/21 10:32	1
Endrin	0.050	U	0.050	0.014	ug/L		10/13/21 14:43	10/14/21 10:32	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		10/13/21 14:43	10/14/21 10:32	1
Endrin ketone	0.050	U	0.050	0.012	ug/L		10/13/21 14:43	10/14/21 10:32	1
gamma-BHC (Lindane)	**0.017**	**J**	0.050	0.0080	ug/L		10/13/21 14:43	10/14/21 10:32	1
Heptachlor	0.050	U	0.050	0.0085	ug/L		10/13/21 14:43	10/14/21 10:32	1
Heptachlor epoxide	0.050	U	0.050	0.0074	ug/L		10/13/21 14:43	10/14/21 10:32	1
Methoxychlor	0.050	U	0.050	0.014	ug/L		10/13/21 14:43	10/14/21 10:32	1
Toxaphene	0.50	U	0.50	0.12	ug/L		10/13/21 14:43	10/14/21 10:32	1
trans-Chlordane	0.050	U	0.050	0.011	ug/L		10/13/21 14:43	10/14/21 10:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*20 - 120*	*10/13/21 14:43*	*10/14/21 10:32*	*1*
DCB Decachlorobiphenyl	*63*		*20 - 120*	*10/13/21 14:43*	*10/14/21 10:32*	*1*
Tetrachloro-m-xylene	*98*		*44 - 120*	*10/13/21 14:43*	*10/14/21 10:32*	*1*
Tetrachloro-m-xylene	*70*		*44 - 120*	*10/13/21 14:43*	*10/14/21 10:32*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.52	U	0.52	0.18	ug/L		10/14/21 06:52	10/15/21 06:57	1
PCB-1221	0.52	U	0.52	0.18	ug/L		10/14/21 06:52	10/15/21 06:57	1
PCB-1232	0.52	U	0.52	0.18	ug/L		10/14/21 06:52	10/15/21 06:57	1
PCB-1242	0.52	U	0.52	0.18	ug/L		10/14/21 06:52	10/15/21 06:57	1
PCB-1248	0.52	U	0.52	0.18	ug/L		10/14/21 06:52	10/15/21 06:57	1
PCB-1254	0.52	U	0.52	0.26	ug/L		10/14/21 06:52	10/15/21 06:57	1
PCB-1260	0.52	U	0.52	0.26	ug/L		10/14/21 06:52	10/15/21 06:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*19 - 120*	*10/14/21 06:52*	*10/15/21 06:57*	*1*
DCB Decachlorobiphenyl	*61*		*19 - 120*	*10/14/21 06:52*	*10/15/21 06:57*	*1*
Tetrachloro-m-xylene	*100*		*39 - 121*	*10/14/21 06:52*	*10/15/21 06:57*	*1*

Client Sample ID: IDW-01-10062021

Date Collected: 10/06/21 09:30
Date Received: 10/12/21 10:00

Lab Sample ID: 480-190791-1

Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*39 - 121*	*10/14/21 06:52*	*10/15/21 06:57*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.51	U	0.51	0.069	ug/L		10/13/21 11:20	10/19/21 10:19	1
2,4-D	0.51	U	0.51	0.17	ug/L		10/13/21 11:20	10/19/21 10:19	1
Dichlorprop	0.51	U	0.51	0.12	ug/L		10/13/21 11:20	10/19/21 10:19	1
Dinoseb	0.51	U	0.51	0.14	ug/L		10/13/21 11:20	10/19/21 10:19	1
Pentachlorophenol	0.51	U	0.51	0.049	ug/L		10/13/21 11:20	10/19/21 10:19	1
Picloram	**0.50**	**J**	0.51	0.073	ug/L		10/13/21 11:20	10/19/21 10:19	1
Silvex (2,4,5-TP)	0.51	U	0.51	0.051	ug/L		10/13/21 11:20	10/19/21 10:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*139*	*S1+*	*48 - 132*	*10/13/21 11:20*	*10/19/21 10:19*	*1*
2,4-Dichlorophenylacetic acid	*61*		*48 - 132*	*10/13/21 11:20*	*10/19/21 10:19*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	U	0.015	0.0056	mg/L		10/13/21 09:33	10/13/21 17:50	1
Barium	**0.13**		0.0020	0.00070	mg/L		10/13/21 09:33	10/13/21 17:50	1
Cadmium	**0.00050**	**J**	0.0020	0.00050	mg/L		10/13/21 09:33	10/13/21 17:50	1
Chromium	**0.0022**	**J**	0.0040	0.0010	mg/L		10/13/21 09:33	10/13/21 17:50	1
Lead	0.010	U	0.010	0.0030	mg/L		10/13/21 09:33	10/13/21 17:50	1
Selenium	0.025	U	0.025	0.0087	mg/L		10/13/21 09:33	10/13/21 17:50	1
Silver	0.0060	U	0.0060	0.0017	mg/L		10/13/21 09:33	10/13/21 17:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		10/14/21 14:36	10/14/21 18:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	10.0	U	10.0	10.0	mg/L		10/19/21 11:00	10/19/21 14:14	1
Sulfide, Reactive	10.0	U	10.0	10.0	mg/L		10/19/21 11:00	10/19/21 14:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>175**		50.0	50.0	Degrees F			10/14/21 16:58	1
pH	**7.89**	**HF *+**	0.100	0.100	SU			10/13/21 17:57	1
Temperature	**16.9**	**HF**	0.00100	0.00100	Degrees C			10/13/21 17:57	1

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190791-1

Client Sample ID: IDW-02-10062021
Date Collected: 10/06/21 11:40
Date Received: 10/12/21 10:00

Lab Sample ID: 480-190791-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	25	U	25	21	ug/L			10/14/21 12:48	25
1,1,2,2-Tetrachloroethane	25	U	25	5.3	ug/L			10/14/21 12:48	25
1,1,2-Trichloro-1,2,2-trifluoroethane	25	U	25	7.8	ug/L			10/14/21 12:48	25
1,1,2-Trichloroethane	25	U	25	5.8	ug/L			10/14/21 12:48	25
1,1-Dichloroethane	25	U	25	9.5	ug/L			10/14/21 12:48	25
1,1-Dichloroethene	25	U	25	7.3	ug/L			10/14/21 12:48	25
1,2,4-Trichlorobenzene	25	U	25	10	ug/L			10/14/21 12:48	25
1,2-Dibromo-3-Chloropropane	25	U	25	9.8	ug/L			10/14/21 12:48	25
1,2-Dibromoethane	25	U	25	18	ug/L			10/14/21 12:48	25
1,2-Dichlorobenzene	25	U	25	20	ug/L			10/14/21 12:48	25
1,2-Dichloroethane	25	U	25	5.3	ug/L			10/14/21 12:48	25
1,2-Dichloropropane	25	U	25	18	ug/L			10/14/21 12:48	25
1,3-Dichlorobenzene	25	U	25	20	ug/L			10/14/21 12:48	25
1,4-Dichlorobenzene	25	U	25	21	ug/L			10/14/21 12:48	25
2-Butanone (MEK)	250	U	250	33	ug/L			10/14/21 12:48	25
2-Hexanone	130	U	130	31	ug/L			10/14/21 12:48	25
4-Methyl-2-pentanone (MIBK)	130	U	130	53	ug/L			10/14/21 12:48	25
Acetone	250	U	250	75	ug/L			10/14/21 12:48	25
Benzene	25	U	25	10	ug/L			10/14/21 12:48	25
Bromodichloromethane	25	U	25	9.8	ug/L			10/14/21 12:48	25
Bromoform	25	U	25	6.5	ug/L			10/14/21 12:48	25
Bromomethane	25	U	25	17	ug/L			10/14/21 12:48	25
Carbon disulfide	25	U	25	4.8	ug/L			10/14/21 12:48	25
Carbon tetrachloride	25	U	25	6.8	ug/L			10/14/21 12:48	25
Chlorobenzene	25	U	25	19	ug/L			10/14/21 12:48	25
Chloroethane	25	U	25	8.0	ug/L			10/14/21 12:48	25
Chloroform	25	U	25	8.5	ug/L			10/14/21 12:48	25
Chloromethane	25	U	25	8.8	ug/L			10/14/21 12:48	25
cis-1,2-Dichloroethene	25	U	25	20	ug/L			10/14/21 12:48	25
cis-1,3-Dichloropropene	25	U	25	9.0	ug/L			10/14/21 12:48	25
Cyclohexane	25	U	25	4.5	ug/L			10/14/21 12:48	25
Dibromochloromethane	25	U	25	8.0	ug/L			10/14/21 12:48	25
Dichlorodifluoromethane	25	U	25	17	ug/L			10/14/21 12:48	25
Ethylbenzene	**40**		25	19	ug/L			10/14/21 12:48	25
Isopropylbenzene	25	U	25	20	ug/L			10/14/21 12:48	25
Methyl acetate	63	U	63	33	ug/L			10/14/21 12:48	25
Methyl tert-butyl ether	25	U	25	4.0	ug/L			10/14/21 12:48	25
Methylcyclohexane	25	U	25	4.0	ug/L			10/14/21 12:48	25
Methylene Chloride	25	U	25	11	ug/L			10/14/21 12:48	25
Styrene	25	U	25	18	ug/L			10/14/21 12:48	25
Tetrachloroethene	25	U	25	9.0	ug/L			10/14/21 12:48	25
Toluene	25	U	25	13	ug/L			10/14/21 12:48	25
trans-1,2-Dichloroethene	25	U	25	23	ug/L			10/14/21 12:48	25
trans-1,3-Dichloropropene	25	U	25	9.3	ug/L			10/14/21 12:48	25
Trichloroethene	25	U	25	12	ug/L			10/14/21 12:48	25
Trichlorofluoromethane	25	U	25	22	ug/L			10/14/21 12:48	25
Vinyl chloride	25	U	25	23	ug/L			10/14/21 12:48	25
Xylenes, Total	**51**		50	17	ug/L			10/14/21 12:48	25

Client Sample ID: IDW-02-10062021

Date Collected: 10/06/21 11:40
Date Received: 10/12/21 10:00

Lab Sample ID: 480-190791-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		10/14/21 12:48	25
4-Bromofluorobenzene (Surr)	93		73 - 120		10/14/21 12:48	25
Dibromofluoromethane (Surr)	102		75 - 123		10/14/21 12:48	25
Toluene-d8 (Surr)	98		80 - 120		10/14/21 12:48	25

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	5.0	U	5.0	0.48	ug/L		10/13/21 14:36	10/14/21 20:20	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.61	ug/L		10/13/21 14:36	10/14/21 20:20	1
2,4-Dichlorophenol	5.0	U	5.0	0.51	ug/L		10/13/21 14:36	10/14/21 20:20	1
2,4-Dimethylphenol	5.0	U	5.0	0.50	ug/L		10/13/21 14:36	10/14/21 20:20	1
2,4-Dinitrophenol	10	U	10	2.2	ug/L		10/13/21 14:36	10/14/21 20:20	1
2,4-Dinitrotoluene	5.0	U	5.0	0.45	ug/L		10/13/21 14:36	10/14/21 20:20	1
2,6-Dinitrotoluene	5.0	U	5.0	0.40	ug/L		10/13/21 14:36	10/14/21 20:20	1
2-Chloronaphthalene	5.0	U	5.0	0.46	ug/L		10/13/21 14:36	10/14/21 20:20	1
2-Chlorophenol	5.0	U	5.0	0.53	ug/L		10/13/21 14:36	10/14/21 20:20	1
2-Methylnaphthalene	**99**	**E**	5.0	0.60	ug/L		10/13/21 14:36	10/14/21 20:20	1
2-Methylphenol	5.0	U	5.0	0.40	ug/L		10/13/21 14:36	10/14/21 20:20	1
2-Nitroaniline	10	U	10	0.42	ug/L		10/13/21 14:36	10/14/21 20:20	1
2-Nitrophenol	5.0	U	5.0	0.48	ug/L		10/13/21 14:36	10/14/21 20:20	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.40	ug/L		10/13/21 14:36	10/14/21 20:20	1
3-Nitroaniline	10	U	10	0.48	ug/L		10/13/21 14:36	10/14/21 20:20	1
4,6-Dinitro-2-methylphenol	10	U	10	2.2	ug/L		10/13/21 14:36	10/14/21 20:20	1
4-Bromophenyl phenyl ether	5.0	U	5.0	0.45	ug/L		10/13/21 14:36	10/14/21 20:20	1
4-Chloro-3-methylphenol	5.0	U	5.0	0.45	ug/L		10/13/21 14:36	10/14/21 20:20	1
4-Chloroaniline	5.0	U	5.0	0.59	ug/L		10/13/21 14:36	10/14/21 20:20	1
4-Chlorophenyl phenyl ether	5.0	U	5.0	0.35	ug/L		10/13/21 14:36	10/14/21 20:20	1
4-Methylphenol	**3.1**	**J**	10	0.36	ug/L		10/13/21 14:36	10/14/21 20:20	1
4-Nitroaniline	10	U	10	0.25	ug/L		10/13/21 14:36	10/14/21 20:20	1
4-Nitrophenol	10	U	10	1.5	ug/L		10/13/21 14:36	10/14/21 20:20	1
Acenaphthene	**120**	**E**	5.0	0.41	ug/L		10/13/21 14:36	10/14/21 20:20	1
Acenaphthylene	**2.5**	**J**	5.0	0.38	ug/L		10/13/21 14:36	10/14/21 20:20	1
Acetophenone	**1.3**	**J**	5.0	0.54	ug/L		10/13/21 14:36	10/14/21 20:20	1
Anthracene	**14**		5.0	0.28	ug/L		10/13/21 14:36	10/14/21 20:20	1
Atrazine	5.0	U	5.0	0.46	ug/L		10/13/21 14:36	10/14/21 20:20	1
Benzaldehyde	5.0	U	5.0	0.27	ug/L		10/13/21 14:36	10/14/21 20:20	1
Benzo(a)anthracene	**2.5**	**J**	5.0	0.36	ug/L		10/13/21 14:36	10/14/21 20:20	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		10/13/21 14:36	10/14/21 20:20	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		10/13/21 14:36	10/14/21 20:20	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		10/13/21 14:36	10/14/21 20:20	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		10/13/21 14:36	10/14/21 20:20	1
Biphenyl	**22**		5.0	0.65	ug/L		10/13/21 14:36	10/14/21 20:20	1
bis (2-chloroisopropyl) ether	5.0	U	5.0	0.52	ug/L		10/13/21 14:36	10/14/21 20:20	1
Bis(2-chloroethoxy)methane	5.0	U	5.0	0.35	ug/L		10/13/21 14:36	10/14/21 20:20	1
Bis(2-chloroethyl)ether	5.0	U	5.0	0.40	ug/L		10/13/21 14:36	10/14/21 20:20	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.2	ug/L		10/13/21 14:36	10/14/21 20:20	1
Butyl benzyl phthalate	5.0	U	5.0	1.0	ug/L		10/13/21 14:36	10/14/21 20:20	1
Caprolactam	5.0	U	5.0	2.2	ug/L		10/13/21 14:36	10/14/21 20:20	1
Carbazole	**2.6**	**J**	5.0	0.30	ug/L		10/13/21 14:36	10/14/21 20:20	1
Chrysene	**1.7**	**J**	5.0	0.33	ug/L		10/13/21 14:36	10/14/21 20:20	1

Client Sample ID: IDW-02-10062021
Date Collected: 10/06/21 11:40
Date Received: 10/12/21 10:00

Lab Sample ID: 480-190791-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		10/13/21 14:36	10/14/21 20:20	1
Dibenzofuran	**4.6**	**J**	10	0.51	ug/L		10/13/21 14:36	10/14/21 20:20	1
Diethyl phthalate	**0.54**	**J**	5.0	0.22	ug/L		10/13/21 14:36	10/14/21 20:20	1
Dimethyl phthalate	5.0	U	5.0	0.36	ug/L		10/13/21 14:36	10/14/21 20:20	1
Di-n-butyl phthalate	5.0	U	5.0	0.31	ug/L		10/13/21 14:36	10/14/21 20:20	1
Di-n-octyl phthalate	5.0	U	5.0	0.47	ug/L		10/13/21 14:36	10/14/21 20:20	1
Fluoranthene	**18**		5.0	0.40	ug/L		10/13/21 14:36	10/14/21 20:20	1
Fluorene	**39**		5.0	0.36	ug/L		10/13/21 14:36	10/14/21 20:20	1
Hexachlorobenzene	5.0	U	5.0	0.51	ug/L		10/13/21 14:36	10/14/21 20:20	1
Hexachlorobutadiene	5.0	U	5.0	0.68	ug/L		10/13/21 14:36	10/14/21 20:20	1
Hexachlorocyclopentadiene	5.0	U	5.0	0.59	ug/L		10/13/21 14:36	10/14/21 20:20	1
Hexachloroethane	5.0	U	5.0	0.59	ug/L		10/13/21 14:36	10/14/21 20:20	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		10/13/21 14:36	10/14/21 20:20	1
Isophorone	5.0	U	5.0	0.43	ug/L		10/13/21 14:36	10/14/21 20:20	1
Naphthalene	**420**	**E**	5.0	0.76	ug/L		10/13/21 14:36	10/14/21 20:20	1
Nitrobenzene	5.0	U	5.0	0.29	ug/L		10/13/21 14:36	10/14/21 20:20	1
N-Nitrosodi-n-propylamine	5.0	U	5.0	0.54	ug/L		10/13/21 14:36	10/14/21 20:20	1
N-Nitrosodiphenylamine	5.0	U	5.0	0.51	ug/L		10/13/21 14:36	10/14/21 20:20	1
Pentachlorophenol	10	U	10	2.2	ug/L		10/13/21 14:36	10/14/21 20:20	1
Phenanthrene	**100**	**E**	5.0	0.44	ug/L		10/13/21 14:36	10/14/21 20:20	1
Phenol	**11**		5.0	0.39	ug/L		10/13/21 14:36	10/14/21 20:20	1
Pyrene	**24**		5.0	0.34	ug/L		10/13/21 14:36	10/14/21 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*106*		*41 - 120*	*10/13/21 14:36*	*10/14/21 20:20*	*1*
2-Fluorobiphenyl	*93*		*48 - 120*	*10/13/21 14:36*	*10/14/21 20:20*	*1*
2-Fluorophenol	*69*		*35 - 120*	*10/13/21 14:36*	*10/14/21 20:20*	*1*
Nitrobenzene-d5 (Surr)	*91*		*46 - 120*	*10/13/21 14:36*	*10/14/21 20:20*	*1*
Phenol-d5	*52*		*22 - 120*	*10/13/21 14:36*	*10/14/21 20:20*	*1*
p-Terphenyl-d14 (Surr)	*75*		*60 - 148*	*10/13/21 14:36*	*10/14/21 20:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	250	U	250	24	ug/L		10/13/21 14:36	10/15/21 21:19	50
2,4,6-Trichlorophenol	250	U	250	31	ug/L		10/13/21 14:36	10/15/21 21:19	50
2,4-Dichlorophenol	250	U	250	26	ug/L		10/13/21 14:36	10/15/21 21:19	50
2,4-Dimethylphenol	250	U	250	25	ug/L		10/13/21 14:36	10/15/21 21:19	50
2,4-Dinitrophenol	500	U	500	110	ug/L		10/13/21 14:36	10/15/21 21:19	50
2,4-Dinitrotoluene	250	U	250	22	ug/L		10/13/21 14:36	10/15/21 21:19	50
2,6-Dinitrotoluene	250	U	250	20	ug/L		10/13/21 14:36	10/15/21 21:19	50
2-Chloronaphthalene	250	U	250	23	ug/L		10/13/21 14:36	10/15/21 21:19	50
2-Chlorophenol	250	U	250	27	ug/L		10/13/21 14:36	10/15/21 21:19	50
2-Methylnaphthalene	**92**	**J**	250	30	ug/L		10/13/21 14:36	10/15/21 21:19	50
2-Methylphenol	250	U	250	20	ug/L		10/13/21 14:36	10/15/21 21:19	50
2-Nitroaniline	500	U	500	21	ug/L		10/13/21 14:36	10/15/21 21:19	50
2-Nitrophenol	250	U	250	24	ug/L		10/13/21 14:36	10/15/21 21:19	50
3,3'-Dichlorobenzidine	250	U	250	20	ug/L		10/13/21 14:36	10/15/21 21:19	50
3-Nitroaniline	500	U	500	24	ug/L		10/13/21 14:36	10/15/21 21:19	50
4,6-Dinitro-2-methylphenol	500	U	500	110	ug/L		10/13/21 14:36	10/15/21 21:19	50
4-Bromophenyl phenyl ether	250	U	250	23	ug/L		10/13/21 14:36	10/15/21 21:19	50

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190791-1

Client Sample ID: IDW-02-10062021
Date Collected: 10/06/21 11:40
Date Received: 10/12/21 10:00

Lab Sample ID: 480-190791-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	250	U	250	23	ug/L		10/13/21 14:36	10/15/21 21:19	50
4-Chloroaniline	250	U	250	30	ug/L		10/13/21 14:36	10/15/21 21:19	50
4-Chlorophenyl phenyl ether	250	U	250	18	ug/L		10/13/21 14:36	10/15/21 21:19	50
4-Methylphenol	500	U	500	18	ug/L		10/13/21 14:36	10/15/21 21:19	50
4-Nitroaniline	500	U	500	13	ug/L		10/13/21 14:36	10/15/21 21:19	50
4-Nitrophenol	500	U	500	76	ug/L		10/13/21 14:36	10/15/21 21:19	50
Acenaphthene	**130**	**J**	250	21	ug/L		10/13/21 14:36	10/15/21 21:19	50
Acenaphthylene	250	U	250	19	ug/L		10/13/21 14:36	10/15/21 21:19	50
Acetophenone	250	U	250	27	ug/L		10/13/21 14:36	10/15/21 21:19	50
Anthracene	250	U	250	14	ug/L		10/13/21 14:36	10/15/21 21:19	50
Atrazine	250	U	250	23	ug/L		10/13/21 14:36	10/15/21 21:19	50
Benzaldehyde	250	U	250	13	ug/L		10/13/21 14:36	10/15/21 21:19	50
Benzo(a)anthracene	250	U	250	18	ug/L		10/13/21 14:36	10/15/21 21:19	50
Benzo(a)pyrene	250	U	250	24	ug/L		10/13/21 14:36	10/15/21 21:19	50
Benzo(b)fluoranthene	250	U	250	17	ug/L		10/13/21 14:36	10/15/21 21:19	50
Benzo(g,h,i) perylene	250	U	250	18	ug/L		10/13/21 14:36	10/15/21 21:19	50
Benzo(k)fluoranthene	250	U	250	37	ug/L		10/13/21 14:36	10/15/21 21:19	50
Biphenyl	250	U	250	33	ug/L		10/13/21 14:36	10/15/21 21:19	50
bis (2-chloroisopropyl) ether	250	U	250	26	ug/L		10/13/21 14:36	10/15/21 21:19	50
Bis(2-chloroethoxy)methane	250	U	250	18	ug/L		10/13/21 14:36	10/15/21 21:19	50
Bis(2-chloroethyl)ether	250	U	250	20	ug/L		10/13/21 14:36	10/15/21 21:19	50
Bis(2-ethylhexyl) phthalate	250	U	250	110	ug/L		10/13/21 14:36	10/15/21 21:19	50
Butyl benzyl phthalate	250	U	250	50	ug/L		10/13/21 14:36	10/15/21 21:19	50
Caprolactam	250	U	250	110	ug/L		10/13/21 14:36	10/15/21 21:19	50
Carbazole	250	U	250	15	ug/L		10/13/21 14:36	10/15/21 21:19	50
Chrysene	250	U	250	17	ug/L		10/13/21 14:36	10/15/21 21:19	50
Dibenz(a,h)anthracene	250	U	250	21	ug/L		10/13/21 14:36	10/15/21 21:19	50
Dibenzofuran	500	U	500	26	ug/L		10/13/21 14:36	10/15/21 21:19	50
Diethyl phthalate	250	U	250	11	ug/L		10/13/21 14:36	10/15/21 21:19	50
Dimethyl phthalate	250	U	250	18	ug/L		10/13/21 14:36	10/15/21 21:19	50
Di-n-butyl phthalate	250	U	250	16	ug/L		10/13/21 14:36	10/15/21 21:19	50
Di-n-octyl phthalate	250	U	250	24	ug/L		10/13/21 14:36	10/15/21 21:19	50
Fluoranthene	250	U	250	20	ug/L		10/13/21 14:36	10/15/21 21:19	50
Fluorene	**33**	**J**	250	18	ug/L		10/13/21 14:36	10/15/21 21:19	50
Hexachlorobenzene	250	U	250	26	ug/L		10/13/21 14:36	10/15/21 21:19	50
Hexachlorobutadiene	250	U	250	34	ug/L		10/13/21 14:36	10/15/21 21:19	50
Hexachlorocyclopentadiene	250	U	250	30	ug/L		10/13/21 14:36	10/15/21 21:19	50
Hexachloroethane	250	U	250	30	ug/L		10/13/21 14:36	10/15/21 21:19	50
Ideno(1,2,3-cd)pyrene	250	U	250	24	ug/L		10/13/21 14:36	10/15/21 21:19	50
Isophorone	250	U	250	22	ug/L		10/13/21 14:36	10/15/21 21:19	50
Naphthalene	**1200**		250	38	ug/L		10/13/21 14:36	10/15/21 21:19	50
Nitrobenzene	250	U	250	15	ug/L		10/13/21 14:36	10/15/21 21:19	50
N-Nitrosodi-n-propylamine	250	U	250	27	ug/L		10/13/21 14:36	10/15/21 21:19	50
N-Nitrosodiphenylamine	250	U	250	26	ug/L		10/13/21 14:36	10/15/21 21:19	50
Pentachlorophenol	500	U	500	110	ug/L		10/13/21 14:36	10/15/21 21:19	50
Phenanthrene	**110**	**J**	250	22	ug/L		10/13/21 14:36	10/15/21 21:19	50
Phenol	250	U	250	20	ug/L		10/13/21 14:36	10/15/21 21:19	50
Pyrene	**21**	**J**	250	17	ug/L		10/13/21 14:36	10/15/21 21:19	50

Client Sample ID: IDW-02-10062021

Date Collected: 10/06/21 11:40
Date Received: 10/12/21 10:00

Lab Sample ID: 480-190791-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*149*	*S1+*	*41 - 120*	*10/13/21 14:36*	*10/15/21 21:19*	*50*
2-Fluorobiphenyl	*93*		*48 - 120*	*10/13/21 14:36*	*10/15/21 21:19*	*50*
2-Fluorophenol	*68*		*35 - 120*	*10/13/21 14:36*	*10/15/21 21:19*	*50*
Nitrobenzene-d5 (Surr)	*106*		*46 - 120*	*10/13/21 14:36*	*10/15/21 21:19*	*50*
Phenol-d5	*51*		*22 - 120*	*10/13/21 14:36*	*10/15/21 21:19*	*50*
p-Terphenyl-d14 (Surr)	*72*		*60 - 148*	*10/13/21 14:36*	*10/15/21 21:19*	*50*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.050	U	0.050	0.0092	ug/L		10/13/21 14:43	10/14/21 10:51	1
4,4'-DDE	**0.017**	**J**	0.050	0.012	ug/L		10/13/21 14:43	10/14/21 10:51	1
4,4'-DDT	**0.047**	**J**	0.050	0.011	ug/L		10/13/21 14:43	10/14/21 10:51	1
Aldrin	0.050	U	0.050	0.0081	ug/L		10/13/21 14:43	10/14/21 10:51	1
alpha-BHC	0.050	U	0.050	0.0077	ug/L		10/13/21 14:43	10/14/21 10:51	1
beta-BHC	0.050	U	0.050	0.025	ug/L		10/13/21 14:43	10/14/21 10:51	1
cis-Chlordane	0.050	U	0.050	0.015	ug/L		10/13/21 14:43	10/14/21 10:51	1
delta-BHC	0.050	U	0.050	0.010	ug/L		10/13/21 14:43	10/14/21 10:51	1
Dieldrin	0.050	U	0.050	0.0098	ug/L		10/13/21 14:43	10/14/21 10:51	1
Endosulfan I	**0.031**	**J**	0.050	0.011	ug/L		10/13/21 14:43	10/14/21 10:51	1
Endosulfan II	0.050	U	0.050	0.012	ug/L		10/13/21 14:43	10/14/21 10:51	1
Endosulfan sulfate	0.050	U	0.050	0.016	ug/L		10/13/21 14:43	10/14/21 10:51	1
Endrin	**0.047**	**J**	0.050	0.014	ug/L		10/13/21 14:43	10/14/21 10:51	1
Endrin aldehyde	**0.035**	**J**	0.050	0.016	ug/L		10/13/21 14:43	10/14/21 10:51	1
Endrin ketone	0.050	U	0.050	0.012	ug/L		10/13/21 14:43	10/14/21 10:51	1
gamma-BHC (Lindane)	**0.010**	**J**	0.050	0.0080	ug/L		10/13/21 14:43	10/14/21 10:51	1
Heptachlor	0.050	U	0.050	0.0085	ug/L		10/13/21 14:43	10/14/21 10:51	1
Heptachlor epoxide	0.050	U	0.050	0.0074	ug/L		10/13/21 14:43	10/14/21 10:51	1
Methoxychlor	**0.036**	**J**	0.050	0.014	ug/L		10/13/21 14:43	10/14/21 10:51	1
Toxaphene	0.50	U	0.50	0.12	ug/L		10/13/21 14:43	10/14/21 10:51	1
trans-Chlordane	0.050	U	0.050	0.011	ug/L		10/13/21 14:43	10/14/21 10:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*40*		*20 - 120*	*10/13/21 14:43*	*10/14/21 10:51*	*1*
DCB Decachlorobiphenyl	*87*		*20 - 120*	*10/13/21 14:43*	*10/14/21 10:51*	*1*
Tetrachloro-m-xylene	*104*		*44 - 120*	*10/13/21 14:43*	*10/14/21 10:51*	*1*
Tetrachloro-m-xylene	*82*		*44 - 120*	*10/13/21 14:43*	*10/14/21 10:51*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.52	U	0.52	0.18	ug/L		10/14/21 06:52	10/15/21 07:10	1
PCB-1221	0.52	U	0.52	0.18	ug/L		10/14/21 06:52	10/15/21 07:10	1
PCB-1232	0.52	U	0.52	0.18	ug/L		10/14/21 06:52	10/15/21 07:10	1
PCB-1242	0.52	U	0.52	0.18	ug/L		10/14/21 06:52	10/15/21 07:10	1
PCB-1248	0.52	U	0.52	0.18	ug/L		10/14/21 06:52	10/15/21 07:10	1
PCB-1254	0.52	U	0.52	0.26	ug/L		10/14/21 06:52	10/15/21 07:10	1
PCB-1260	0.52	U	0.52	0.26	ug/L		10/14/21 06:52	10/15/21 07:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*51*		*19 - 120*	*10/14/21 06:52*	*10/15/21 07:10*	*1*
DCB Decachlorobiphenyl	*48*		*19 - 120*	*10/14/21 06:52*	*10/15/21 07:10*	*1*
Tetrachloro-m-xylene	*72*		*39 - 121*	*10/14/21 06:52*	*10/15/21 07:10*	*1*

Client Sample ID: IDW-02-10062021

Date Collected: 10/06/21 11:40
Date Received: 10/12/21 10:00

Lab Sample ID: 480-190791-2

Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*39 - 121*	*10/14/21 06:52*	*10/15/21 07:10*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.50	U	0.50	0.067	ug/L		10/13/21 11:20	10/19/21 10:49	1
2,4-D	0.50	U	0.50	0.17	ug/L		10/13/21 11:20	10/19/21 10:49	1
Dichlorprop	0.50	U	0.50	0.11	ug/L		10/13/21 11:20	10/19/21 10:49	1
Dinoseb	0.50	U	0.50	0.13	ug/L		10/13/21 11:20	10/19/21 10:49	1
Pentachlorophenol	0.50	U	0.50	0.049	ug/L		10/13/21 11:20	10/19/21 10:49	1
Picloram	0.50	U	0.50	0.071	ug/L		10/13/21 11:20	10/19/21 10:49	1
Silvex (2,4,5-TP)	0.50	U	0.50	0.050	ug/L		10/13/21 11:20	10/19/21 10:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*34*	*S1-*	*48 - 132*	*10/13/21 11:20*	*10/19/21 10:49*	*1*
2,4-Dichlorophenylacetic acid	*25*	*S1-*	*48 - 132*	*10/13/21 11:20*	*10/19/21 10:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	U	0.015	0.0056	mg/L		10/13/21 09:33	10/13/21 17:54	1
Barium	**0.12**		0.0020	0.00070	mg/L		10/13/21 09:33	10/13/21 17:54	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		10/13/21 09:33	10/13/21 17:54	1
Chromium	0.0040	U	0.0040	0.0010	mg/L		10/13/21 09:33	10/13/21 17:54	1
Lead	0.010	U	0.010	0.0030	mg/L		10/13/21 09:33	10/13/21 17:54	1
Selenium	0.025	U	0.025	0.0087	mg/L		10/13/21 09:33	10/13/21 17:54	1
Silver	0.0060	U	0.0060	0.0017	mg/L		10/13/21 09:33	10/13/21 17:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		10/14/21 14:36	10/14/21 18:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	10.0	U	10.0	10.0	mg/L		10/19/21 11:00	10/19/21 14:17	1
Sulfide, Reactive	10.0	U	10.0	10.0	mg/L		10/19/21 11:00	10/19/21 14:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>175**		50.0	50.0	Degrees F			10/14/21 16:58	1
pH	**9.82**	**HF *+**	0.100	0.100	SU			10/13/21 17:58	1
Temperature	**17.1**	**HF**	0.00100	0.00100	Degrees C			10/13/21 17:58	1

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190791-1

Client Sample ID: TRIP BLANK

Date Collected: 10/06/21 00:00
Date Received: 10/12/21 10:00

Lab Sample ID: 480-190791-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/14/21 13:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/14/21 13:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/14/21 13:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/14/21 13:11	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/14/21 13:11	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/14/21 13:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/14/21 13:11	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/14/21 13:11	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/14/21 13:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/14/21 13:11	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/14/21 13:11	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/14/21 13:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/14/21 13:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/14/21 13:11	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/14/21 13:11	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/14/21 13:11	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/14/21 13:11	1
Acetone	10	U	10	3.0	ug/L			10/14/21 13:11	1
Benzene	1.0	U	1.0	0.41	ug/L			10/14/21 13:11	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/14/21 13:11	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/14/21 13:11	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/14/21 13:11	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/14/21 13:11	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/14/21 13:11	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/14/21 13:11	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/14/21 13:11	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/14/21 13:11	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/14/21 13:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/14/21 13:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/14/21 13:11	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/14/21 13:11	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/14/21 13:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/14/21 13:11	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/14/21 13:11	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/14/21 13:11	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/14/21 13:11	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/14/21 13:11	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/14/21 13:11	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/14/21 13:11	1
Styrene	1.0	U	1.0	0.73	ug/L			10/14/21 13:11	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/14/21 13:11	1
Toluene	1.0	U	1.0	0.51	ug/L			10/14/21 13:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/14/21 13:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/14/21 13:11	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/14/21 13:11	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/14/21 13:11	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/14/21 13:11	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/14/21 13:11	1

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190791-1

Client Sample ID: TRIP BLANK
Date Collected: 10/06/21 00:00
Date Received: 10/12/21 10:00

Lab Sample ID: 480-190791-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		10/14/21 13:11	1
4-Bromofluorobenzene (Surr)	104		73 - 120		10/14/21 13:11	1
Dibromofluoromethane (Surr)	108		75 - 123		10/14/21 13:11	1
Toluene-d8 (Surr)	100		80 - 120		10/14/21 13:11	1

Surrogate Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190791-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-190791-1	IDW-01-10062021	101	98	110	102
480-190791-1 MS	IDW-01-10062021	103	102	99	100
480-190791-1 MSD	IDW-01-10062021	102	102	112	101
480-190791-2	IDW-02-10062021	101	93	102	98
480-190791-3	TRIP BLANK	105	104	108	100
LCS 480-600411/4	Lab Control Sample	97	92	97	93
MB 480-600411/6	Method Blank	112	100	107	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)
480-190791-1	IDW-01-10062021	114	102	75	93	55	86
480-190791-1 - DL	IDW-01-10062021	174 S1+	107	91	114	46	83
480-190791-2	IDW-02-10062021	106	93	69	91	52	75
480-190791-2 - DL	IDW-02-10062021	149 S1+	93	68	106	51	72
LCS 480-600281/2-A	Lab Control Sample	100	100	71	89	56	95
LCSD 480-600281/3-A	Lab Control Sample Dup	103	100	74	89	56	97
MB 480-600281/1-A	Method Blank	64	80	61	70	46	92

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-190791-1	IDW-01-10062021	50	63	98	70
480-190791-2	IDW-02-10062021	40	87	104	82
LCS 480-600285/2-A	Lab Control Sample	45	50	79	76
LCSD 480-600285/3-A	Lab Control Sample Dup	50	53	84	83
MB 480-600285/1-A	Method Blank	34	49	74	65

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Parsons Corporation
Job ID: 480-190791-1
Project/Site: Avangrid - Clark Street

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (19-120)	DCBP2 (19-120)	TCX1 (39-121)	TCX2 (39-121)
480-190791-1	IDW-01-10062021	61	71	110	100
480-190791-2	IDW-02-10062021	48	51	79	72
LCS 480-600339/2-A	Lab Control Sample	42	44	73	67
MB 480-600339/1-A	Method Blank	49	55	69	62

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPAA1 (48-132)	DCPAA2 (48-132)
480-190791-1	IDW-01-10062021	139 S1+	61
480-190791-2	IDW-02-10062021	34 S1-	25 S1-
LCS 480-600176/2-A	Lab Control Sample	93	94
MB 480-600176/1-A	Method Blank	78	76

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-600411/6
Matrix: Water
Analysis Batch: 600411

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/14/21 12:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/14/21 12:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/14/21 12:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/14/21 12:03	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/14/21 12:03	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/14/21 12:03	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/14/21 12:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/14/21 12:03	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/14/21 12:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/14/21 12:03	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/14/21 12:03	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/14/21 12:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/14/21 12:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/14/21 12:03	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/14/21 12:03	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/14/21 12:03	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/14/21 12:03	1
Acetone	10	U	10	3.0	ug/L			10/14/21 12:03	1
Benzene	1.0	U	1.0	0.41	ug/L			10/14/21 12:03	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/14/21 12:03	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/14/21 12:03	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/14/21 12:03	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/14/21 12:03	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/14/21 12:03	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/14/21 12:03	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/14/21 12:03	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/14/21 12:03	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/14/21 12:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/14/21 12:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/14/21 12:03	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/14/21 12:03	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/14/21 12:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/14/21 12:03	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/14/21 12:03	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/14/21 12:03	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/14/21 12:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/14/21 12:03	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/14/21 12:03	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/14/21 12:03	1
Styrene	1.0	U	1.0	0.73	ug/L			10/14/21 12:03	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/14/21 12:03	1
Toluene	1.0	U	1.0	0.51	ug/L			10/14/21 12:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/14/21 12:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/14/21 12:03	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/14/21 12:03	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/14/21 12:03	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/14/21 12:03	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/14/21 12:03	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-600411/6
Matrix: Water
Analysis Batch: 600411

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		10/14/21 12:03	1
4-Bromofluorobenzene (Surr)	100		73 - 120		10/14/21 12:03	1
Dibromofluoromethane (Surr)	107		75 - 123		10/14/21 12:03	1
Toluene-d8 (Surr)	97		80 - 120		10/14/21 12:03	1

Lab Sample ID: LCS 480-600411/4
Matrix: Water
Analysis Batch: 600411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	21.0		ug/L		84	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.9		ug/L		88	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.5		ug/L		86	61 - 148
1,1,2-Trichloroethane	25.0	21.8		ug/L		87	76 - 122
1,1-Dichloroethane	25.0	21.1		ug/L		84	77 - 120
1,1-Dichloroethene	25.0	20.2		ug/L		81	66 - 127
1,2,4-Trichlorobenzene	25.0	21.7		ug/L		87	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	20.9		ug/L		84	56 - 134
1,2-Dibromoethane	25.0	22.1		ug/L		88	77 - 120
1,2-Dichlorobenzene	25.0	20.9		ug/L		84	80 - 124
1,2-Dichloroethane	25.0	22.2		ug/L		89	75 - 120
1,2-Dichloropropane	25.0	21.5		ug/L		86	76 - 120
1,3-Dichlorobenzene	25.0	21.8		ug/L		87	77 - 120
1,4-Dichlorobenzene	25.0	22.1		ug/L		88	80 - 120
2-Butanone (MEK)	125	132		ug/L		105	57 - 140
2-Hexanone	125	124		ug/L		99	65 - 127
4-Methyl-2-pentanone (MIBK)	125	110		ug/L		88	71 - 125
Acetone	125	137		ug/L		109	56 - 142
Benzene	25.0	20.7		ug/L		83	71 - 124
Bromodichloromethane	25.0	22.3		ug/L		89	80 - 122
Bromoform	25.0	22.1		ug/L		88	61 - 132
Bromomethane	25.0	18.5		ug/L		74	55 - 144
Carbon disulfide	25.0	20.2		ug/L		81	59 - 134
Carbon tetrachloride	25.0	21.5		ug/L		86	72 - 134
Chlorobenzene	25.0	21.6		ug/L		86	80 - 120
Chloroethane	25.0	20.7		ug/L		83	69 - 136
Chloroform	25.0	21.3		ug/L		85	73 - 127
Chloromethane	25.0	22.6		ug/L		91	68 - 124
cis-1,2-Dichloroethene	25.0	22.0		ug/L		88	74 - 124
cis-1,3-Dichloropropene	25.0	23.1		ug/L		92	74 - 124
Cyclohexane	25.0	20.5		ug/L		82	59 - 135
Dibromochloromethane	25.0	22.0		ug/L		88	75 - 125
Dichlorodifluoromethane	25.0	26.2		ug/L		105	59 - 135
Ethylbenzene	25.0	20.8		ug/L		83	77 - 123
Isopropylbenzene	25.0	21.8		ug/L		87	77 - 122
Methyl acetate	50.0	49.3		ug/L		99	74 - 133
Methyl tert-butyl ether	25.0	22.1		ug/L		88	77 - 120
Methylcyclohexane	25.0	21.2		ug/L		85	68 - 134

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-600411/4
Matrix: Water
Analysis Batch: 600411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	21.6		ug/L		86	75 - 124
Styrene	25.0	21.8		ug/L		87	80 - 120
Tetrachloroethene	25.0	20.5		ug/L		82	74 - 122
Toluene	25.0	20.6		ug/L		82	80 - 122
trans-1,2-Dichloroethene	25.0	20.1		ug/L		81	73 - 127
Trichloroethene	25.0	22.0		ug/L		88	74 - 123
Trichlorofluoromethane	25.0	23.0		ug/L		92	62 - 150
Vinyl chloride	25.0	22.3		ug/L		89	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*
Toluene-d8 (Surr)	*93*		*80 - 120*

Lab Sample ID: 480-190791-1 MS
Matrix: Water
Analysis Batch: 600411

Client Sample ID: IDW-01-10062021
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20	U	500	516		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	20	U	500	556		ug/L		111	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	500	509		ug/L		102	61 - 148
1,1,2-Trichloroethane	20	U	500	531		ug/L		106	76 - 122
1,1-Dichloroethane	20	U	500	517		ug/L		103	77 - 120
1,1-Dichloroethene	20	U	500	506		ug/L		101	66 - 127
1,2,4-Trichlorobenzene	20	U	500	536		ug/L		107	79 - 122
1,2-Dibromo-3-Chloropropane	20	U	500	508		ug/L		102	56 - 134
1,2-Dibromoethane	20	U	500	542		ug/L		108	77 - 120
1,2-Dichlorobenzene	20	U	500	547		ug/L		109	80 - 124
1,2-Dichloroethane	20	U	500	535		ug/L		107	75 - 120
1,2-Dichloropropane	20	U	500	525		ug/L		105	76 - 120
1,3-Dichlorobenzene	20	U	500	549		ug/L		110	77 - 120
1,4-Dichlorobenzene	20	U	500	543		ug/L		109	78 - 124
2-Butanone (MEK)	200	U	2500	3120		ug/L		125	57 - 140
2-Hexanone	100	U	2500	3050		ug/L		122	65 - 127
4-Methyl-2-pentanone (MIBK)	100	U	2500	2840		ug/L		114	71 - 125
Acetone	200	U	2500	2950		ug/L		118	56 - 142
Benzene	120		500	599		ug/L		96	71 - 124
Bromodichloromethane	20	U	500	532		ug/L		106	80 - 122
Bromoform	20	U	500	481		ug/L		96	61 - 132
Bromomethane	20	U	500	398		ug/L		80	55 - 144
Carbon disulfide	20	U	500	483		ug/L		97	59 - 134
Carbon tetrachloride	20	U	500	525		ug/L		105	72 - 134
Chlorobenzene	20	U	500	534		ug/L		107	80 - 120
Chloroethane	20	U	500	450		ug/L		90	69 - 136
Chloroform	20	U	500	522		ug/L		104	73 - 127
Chloromethane	20	U	500	528		ug/L		106	68 - 124

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-190791-1 MS
Matrix: Water
Analysis Batch: 600411

Client Sample ID: IDW-01-10062021
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	20	U	500	515		ug/L		103	74 - 124
cis-1,3-Dichloropropene	20	U	500	537		ug/L		107	74 - 124
Cyclohexane	20	U	500	513		ug/L		103	59 - 135
Dibromochloromethane	20	U	500	513		ug/L		103	75 - 125
Dichlorodifluoromethane	20	U	500	608		ug/L		122	59 - 135
Ethylbenzene	140		500	646		ug/L		102	77 - 123
Isopropylbenzene	20	U	500	575		ug/L		115	77 - 122
Methyl acetate	50	U	1000	1220		ug/L		122	74 - 133
Methyl tert-butyl ether	20	U	500	531		ug/L		106	77 - 120
Methylcyclohexane	20	U	500	517		ug/L		103	68 - 134
Methylene Chloride	20	U	500	507		ug/L		101	75 - 124
Styrene	20	U	500	546		ug/L		109	80 - 120
Tetrachloroethene	20	U	500	512		ug/L		102	74 - 122
Toluene	11	J	500	542		ug/L		106	80 - 122
trans-1,2-Dichloroethene	20	U	500	520		ug/L		104	73 - 127
Trichloroethene	20	U	500	520		ug/L		104	74 - 123
Trichlorofluoromethane	20	U	500	529		ug/L		106	62 - 150
Vinyl chloride	20	U	500	533		ug/L		107	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 480-190791-1 MSD
Matrix: Water
Analysis Batch: 600411

Client Sample ID: IDW-01-10062021
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20	U	500	528		ug/L		106	73 - 126	2	15
1,1,2,2-Tetrachloroethane	20	U	500	528		ug/L		106	76 - 120	5	15
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	500	494		ug/L		99	61 - 148	3	20
1,1,2-Trichloroethane	20	U	500	528		ug/L		106	76 - 122	1	15
1,1-Dichloroethane	20	U	500	526		ug/L		105	77 - 120	2	20
1,1-Dichloroethene	20	U	500	530		ug/L		106	66 - 127	5	16
1,2,4-Trichlorobenzene	20	U	500	545		ug/L		109	79 - 122	2	20
1,2-Dibromo-3-Chloropropane	20	U	500	500		ug/L		100	56 - 134	2	15
1,2-Dibromoethane	20	U	500	522		ug/L		104	77 - 120	4	15
1,2-Dichlorobenzene	20	U	500	528		ug/L		106	80 - 124	4	20
1,2-Dichloroethane	20	U	500	543		ug/L		109	75 - 120	1	20
1,2-Dichloropropane	20	U	500	504		ug/L		101	76 - 120	4	20
1,3-Dichlorobenzene	20	U	500	508		ug/L		102	77 - 120	8	20
1,4-Dichlorobenzene	20	U	500	528		ug/L		106	78 - 124	3	20
2-Butanone (MEK)	200	U	2500	2860		ug/L		114	57 - 140	9	20
2-Hexanone	100	U	2500	2810		ug/L		112	65 - 127	8	15
4-Methyl-2-pentanone (MIBK)	100	U	2500	2750		ug/L		110	71 - 125	3	35
Acetone	200	U	2500	2770		ug/L		111	56 - 142	7	15

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-190791-1 MSD
Matrix: Water
Analysis Batch: 600411

Client Sample ID: IDW-01-10062021
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	120		500	601		ug/L		96	71 - 124	0	13
Bromodichloromethane	20	U	500	517		ug/L		103	80 - 122	3	15
Bromoform	20	U	500	481		ug/L		96	61 - 132	0	15
Bromomethane	20	U	500	458		ug/L		92	55 - 144	14	15
Carbon disulfide	20	U	500	501		ug/L		100	59 - 134	4	15
Carbon tetrachloride	20	U	500	524		ug/L		105	72 - 134	0	15
Chlorobenzene	20	U	500	516		ug/L		103	80 - 120	3	25
Chloroethane	20	U	500	460		ug/L		92	69 - 136	2	15
Chloroform	20	U	500	545		ug/L		109	73 - 127	4	20
Chloromethane	20	U	500	516		ug/L		103	68 - 124	2	15
cis-1,2-Dichloroethene	20	U	500	569		ug/L		114	74 - 124	10	15
cis-1,3-Dichloropropene	20	U	500	490		ug/L		98	74 - 124	9	15
Cyclohexane	20	U	500	517		ug/L		103	59 - 135	1	20
Dibromochloromethane	20	U	500	495		ug/L		99	75 - 125	4	15
Dichlorodifluoromethane	20	U	500	579		ug/L		116	59 - 135	5	20
Ethylbenzene	140		500	630		ug/L		98	77 - 123	2	15
Isopropylbenzene	20	U	500	507		ug/L		101	77 - 122	13	20
Methyl acetate	50	U	1000	1190		ug/L		119	74 - 133	2	20
Methyl tert-butyl ether	20	U	500	561		ug/L		112	77 - 120	6	37
Methylcyclohexane	20	U	500	497		ug/L		99	68 - 134	4	20
Methylene Chloride	20	U	500	546		ug/L		109	75 - 124	7	15
Styrene	20	U	500	520		ug/L		104	80 - 120	5	20
Tetrachloroethene	20	U	500	488		ug/L		98	74 - 122	5	20
Toluene	11	J	500	515		ug/L		101	80 - 122	5	15
trans-1,2-Dichloroethene	20	U	500	517		ug/L		103	73 - 127	1	20
Trichloroethene	20	U	500	503		ug/L		101	74 - 123	3	16
Trichlorofluoromethane	20	U	500	539		ug/L		108	62 - 150	2	20
Vinyl chloride	20	U	500	520		ug/L		104	65 - 133	2	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*112*		*75 - 123*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-600281/1-A
Matrix: Water
Analysis Batch: 600398

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	5.0	U	5.0	0.48	ug/L		10/13/21 14:36	10/14/21 14:54	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.61	ug/L		10/13/21 14:36	10/14/21 14:54	1
2,4-Dichlorophenol	5.0	U	5.0	0.51	ug/L		10/13/21 14:36	10/14/21 14:54	1
2,4-Dimethylphenol	5.0	U	5.0	0.50	ug/L		10/13/21 14:36	10/14/21 14:54	1
2,4-Dinitrophenol	10	U	10	2.2	ug/L		10/13/21 14:36	10/14/21 14:54	1
2,4-Dinitrotoluene	5.0	U	5.0	0.45	ug/L		10/13/21 14:36	10/14/21 14:54	1
2,6-Dinitrotoluene	5.0	U	5.0	0.40	ug/L		10/13/21 14:36	10/14/21 14:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-600281/1-A
Matrix: Water
Analysis Batch: 600398

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	5.0	U	5.0	0.46	ug/L		10/13/21 14:36	10/14/21 14:54	1
2-Chlorophenol	5.0	U	5.0	0.53	ug/L		10/13/21 14:36	10/14/21 14:54	1
2-Methylnaphthalene	5.0	U	5.0	0.60	ug/L		10/13/21 14:36	10/14/21 14:54	1
2-Methylphenol	5.0	U	5.0	0.40	ug/L		10/13/21 14:36	10/14/21 14:54	1
2-Nitroaniline	10	U	10	0.42	ug/L		10/13/21 14:36	10/14/21 14:54	1
2-Nitrophenol	5.0	U	5.0	0.48	ug/L		10/13/21 14:36	10/14/21 14:54	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.40	ug/L		10/13/21 14:36	10/14/21 14:54	1
3-Nitroaniline	10	U	10	0.48	ug/L		10/13/21 14:36	10/14/21 14:54	1
4,6-Dinitro-2-methylphenol	10	U	10	2.2	ug/L		10/13/21 14:36	10/14/21 14:54	1
4-Bromophenyl phenyl ether	5.0	U	5.0	0.45	ug/L		10/13/21 14:36	10/14/21 14:54	1
4-Chloro-3-methylphenol	5.0	U	5.0	0.45	ug/L		10/13/21 14:36	10/14/21 14:54	1
4-Chloroaniline	5.0	U	5.0	0.59	ug/L		10/13/21 14:36	10/14/21 14:54	1
4-Chlorophenyl phenyl ether	5.0	U	5.0	0.35	ug/L		10/13/21 14:36	10/14/21 14:54	1
4-Methylphenol	10	U	10	0.36	ug/L		10/13/21 14:36	10/14/21 14:54	1
4-Nitroaniline	10	U	10	0.25	ug/L		10/13/21 14:36	10/14/21 14:54	1
4-Nitrophenol	10	U	10	1.5	ug/L		10/13/21 14:36	10/14/21 14:54	1
Acenaphthene	5.0	U	5.0	0.41	ug/L		10/13/21 14:36	10/14/21 14:54	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		10/13/21 14:36	10/14/21 14:54	1
Acetophenone	5.0	U	5.0	0.54	ug/L		10/13/21 14:36	10/14/21 14:54	1
Anthracene	5.0	U	5.0	0.28	ug/L		10/13/21 14:36	10/14/21 14:54	1
Atrazine	5.0	U	5.0	0.46	ug/L		10/13/21 14:36	10/14/21 14:54	1
Benzaldehyde	5.0	U	5.0	0.27	ug/L		10/13/21 14:36	10/14/21 14:54	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		10/13/21 14:36	10/14/21 14:54	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		10/13/21 14:36	10/14/21 14:54	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		10/13/21 14:36	10/14/21 14:54	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		10/13/21 14:36	10/14/21 14:54	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		10/13/21 14:36	10/14/21 14:54	1
Biphenyl	5.0	U	5.0	0.65	ug/L		10/13/21 14:36	10/14/21 14:54	1
bis (2-chloroisopropyl) ether	5.0	U	5.0	0.52	ug/L		10/13/21 14:36	10/14/21 14:54	1
Bis(2-chloroethoxy)methane	5.0	U	5.0	0.35	ug/L		10/13/21 14:36	10/14/21 14:54	1
Bis(2-chloroethyl)ether	5.0	U	5.0	0.40	ug/L		10/13/21 14:36	10/14/21 14:54	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.2	ug/L		10/13/21 14:36	10/14/21 14:54	1
Butyl benzyl phthalate	5.0	U	5.0	1.0	ug/L		10/13/21 14:36	10/14/21 14:54	1
Caprolactam	5.0	U	5.0	2.2	ug/L		10/13/21 14:36	10/14/21 14:54	1
Carbazole	5.0	U	5.0	0.30	ug/L		10/13/21 14:36	10/14/21 14:54	1
Chrysene	5.0	U	5.0	0.33	ug/L		10/13/21 14:36	10/14/21 14:54	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		10/13/21 14:36	10/14/21 14:54	1
Dibenzofuran	10	U	10	0.51	ug/L		10/13/21 14:36	10/14/21 14:54	1
Diethyl phthalate	5.0	U	5.0	0.22	ug/L		10/13/21 14:36	10/14/21 14:54	1
Dimethyl phthalate	5.0	U	5.0	0.36	ug/L		10/13/21 14:36	10/14/21 14:54	1
Di-n-butyl phthalate	5.0	U	5.0	0.31	ug/L		10/13/21 14:36	10/14/21 14:54	1
Di-n-octyl phthalate	5.0	U	5.0	0.47	ug/L		10/13/21 14:36	10/14/21 14:54	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		10/13/21 14:36	10/14/21 14:54	1
Fluorene	5.0	U	5.0	0.36	ug/L		10/13/21 14:36	10/14/21 14:54	1
Hexachlorobenzene	5.0	U	5.0	0.51	ug/L		10/13/21 14:36	10/14/21 14:54	1
Hexachlorobutadiene	5.0	U	5.0	0.68	ug/L		10/13/21 14:36	10/14/21 14:54	1
Hexachlorocyclopentadiene	5.0	U	5.0	0.59	ug/L		10/13/21 14:36	10/14/21 14:54	1
Hexachloroethane	5.0	U	5.0	0.59	ug/L		10/13/21 14:36	10/14/21 14:54	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		10/13/21 14:36	10/14/21 14:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-600281/1-A
Matrix: Water
Analysis Batch: 600398

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	5.0	U	5.0	0.43	ug/L		10/13/21 14:36	10/14/21 14:54	1
Naphthalene	5.0	U	5.0	0.76	ug/L		10/13/21 14:36	10/14/21 14:54	1
Nitrobenzene	5.0	U	5.0	0.29	ug/L		10/13/21 14:36	10/14/21 14:54	1
N-Nitrosodi-n-propylamine	5.0	U	5.0	0.54	ug/L		10/13/21 14:36	10/14/21 14:54	1
N-Nitrosodiphenylamine	5.0	U	5.0	0.51	ug/L		10/13/21 14:36	10/14/21 14:54	1
Pentachlorophenol	10	U	10	2.2	ug/L		10/13/21 14:36	10/14/21 14:54	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		10/13/21 14:36	10/14/21 14:54	1
Phenol	5.0	U	5.0	0.39	ug/L		10/13/21 14:36	10/14/21 14:54	1
Pyrene	5.0	U	5.0	0.34	ug/L		10/13/21 14:36	10/14/21 14:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*41 - 120*	*10/13/21 14:36*	*10/14/21 14:54*	*1*
2-Fluorobiphenyl	*80*		*48 - 120*	*10/13/21 14:36*	*10/14/21 14:54*	*1*
2-Fluorophenol	*61*		*35 - 120*	*10/13/21 14:36*	*10/14/21 14:54*	*1*
Nitrobenzene-d5 (Surr)	*70*		*46 - 120*	*10/13/21 14:36*	*10/14/21 14:54*	*1*
Phenol-d5	*46*		*22 - 120*	*10/13/21 14:36*	*10/14/21 14:54*	*1*
p-Terphenyl-d14 (Surr)	*92*		*60 - 148*	*10/13/21 14:36*	*10/14/21 14:54*	*1*

Lab Sample ID: LCS 480-600281/2-A
Matrix: Water
Analysis Batch: 600398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	32.0	33.3		ug/L		104	65 - 126
2,4,6-Trichlorophenol	32.0	31.6		ug/L		99	64 - 120
2,4-Dichlorophenol	32.0	31.4		ug/L		98	63 - 120
2,4-Dimethylphenol	32.0	30.1		ug/L		94	47 - 120
2,4-Dinitrophenol	64.0	54.1		ug/L		84	31 - 137
2,4-Dinitrotoluene	32.0	32.8		ug/L		103	69 - 120
2,6-Dinitrotoluene	32.0	34.3		ug/L		107	68 - 120
2-Chloronaphthalene	32.0	30.0		ug/L		94	58 - 120
2-Chlorophenol	32.0	29.6		ug/L		93	48 - 120
2-Methylnaphthalene	32.0	28.5		ug/L		89	59 - 120
2-Methylphenol	32.0	28.4		ug/L		89	39 - 120
2-Nitroaniline	32.0	32.0		ug/L		100	54 - 127
2-Nitrophenol	32.0	30.4		ug/L		95	52 - 125
3,3'-Dichlorobenzidine	64.0	55.0		ug/L		86	49 - 135
3-Nitroaniline	32.0	30.9		ug/L		96	51 - 120
4,6-Dinitro-2-methylphenol	64.0	63.3		ug/L		99	46 - 136
4-Bromophenyl phenyl ether	32.0	30.6		ug/L		95	65 - 120
4-Chloro-3-methylphenol	32.0	31.4		ug/L		98	61 - 123
4-Chloroaniline	32.0	31.4		ug/L		98	30 - 120
4-Chlorophenyl phenyl ether	32.0	31.0		ug/L		97	62 - 120
4-Methylphenol	32.0	26.8		ug/L		84	29 - 131
4-Nitroaniline	32.0	33.2		ug/L		104	65 - 120
4-Nitrophenol	64.0	46.1		ug/L		72	45 - 120
Acenaphthene	32.0	31.3		ug/L		98	60 - 120
Acenaphthylene	32.0	31.9		ug/L		100	63 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-600281/2-A
Matrix: Water
Analysis Batch: 600398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetophenone	32.0	30.1		ug/L		94	45 - 120
Anthracene	32.0	31.5		ug/L		98	67 - 120
Atrazine	64.0	71.8		ug/L		112	71 - 130
Benzaldehyde	64.0	64.9		ug/L		101	10 - 140
Benzo(a)anthracene	32.0	30.2		ug/L		94	70 - 121
Benzo(a)pyrene	32.0	28.1		ug/L		88	60 - 123
Benzo(b)fluoranthene	32.0	29.5		ug/L		92	66 - 126
Benzo(g,h,i) perylene	32.0	28.6		ug/L		89	66 - 150
Benzo(k)fluoranthene	32.0	29.9		ug/L		93	65 - 124
Biphenyl	32.0	30.5		ug/L		95	59 - 120
bis (2-chloroisopropyl) ether	32.0	30.8		ug/L		96	21 - 136
Bis(2-chloroethoxy)methane	32.0	30.5		ug/L		95	50 - 128
Bis(2-chloroethyl)ether	32.0	30.8		ug/L		96	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	29.7		ug/L		93	63 - 139
Butyl benzyl phthalate	32.0	32.6		ug/L		102	70 - 129
Caprolactam	64.0	23.7		ug/L		37	22 - 120
Carbazole	32.0	32.1		ug/L		100	66 - 123
Chrysene	32.0	30.0		ug/L		94	69 - 120
Dibenz(a,h)anthracene	32.0	28.4		ug/L		89	65 - 135
Dibenzofuran	32.0	31.1		ug/L		97	66 - 120
Diethyl phthalate	32.0	33.5		ug/L		105	59 - 127
Dimethyl phthalate	32.0	33.5		ug/L		105	68 - 120
Di-n-butyl phthalate	32.0	32.5		ug/L		101	69 - 131
Di-n-octyl phthalate	32.0	29.4		ug/L		92	63 - 140
Fluoranthene	32.0	32.4		ug/L		101	69 - 126
Fluorene	32.0	31.2		ug/L		97	66 - 120
Hexachlorobenzene	32.0	29.2		ug/L		91	61 - 120
Hexachlorobutadiene	32.0	28.1		ug/L		88	35 - 120
Hexachlorocyclopentadiene	32.0	13.4		ug/L		42	31 - 120
Hexachloroethane	32.0	28.6		ug/L		89	43 - 120
Ideno(1,2,3-cd)pyrene	32.0	25.0		ug/L		78	69 - 146
Isophorone	32.0	30.7		ug/L		96	55 - 120
Naphthalene	32.0	28.4		ug/L		89	57 - 120
Nitrobenzene	32.0	29.5		ug/L		92	53 - 123
N-Nitrosodi-n-propylamine	32.0	31.7		ug/L		99	32 - 140
Pentachlorophenol	64.0	53.1		ug/L		83	29 - 136
Phenanthrene	32.0	31.1		ug/L		97	68 - 120
Phenol	32.0	17.4		ug/L		54	17 - 120
Pyrene	32.0	33.4		ug/L		104	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*100*		*41 - 120*
2-Fluorobiphenyl	*100*		*48 - 120*
2-Fluorophenol	*71*		*35 - 120*
Nitrobenzene-d5 (Surr)	*89*		*46 - 120*
Phenol-d5	*56*		*22 - 120*
p-Terphenyl-d14 (Surr)	*95*		*60 - 148*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-600281/3-A
Matrix: Water
Analysis Batch: 600398

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 600281

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol			32.0	33.5		ug/L		105	65 - 126	1	18
2,4,6-Trichlorophenol			32.0	32.5		ug/L		102	64 - 120	3	19
2,4-Dichlorophenol			32.0	32.1		ug/L		100	63 - 120	2	19
2,4-Dimethylphenol			32.0	30.6		ug/L		96	47 - 120	2	42
2,4-Dinitrophenol			64.0	57.3		ug/L		90	31 - 137	6	22
2,4-Dinitrotoluene			32.0	34.3		ug/L		107	69 - 120	4	20
2,6-Dinitrotoluene			32.0	33.8		ug/L		106	68 - 120	1	15
2-Chloronaphthalene			32.0	30.4		ug/L		95	58 - 120	1	21
2-Chlorophenol			32.0	29.3		ug/L		92	48 - 120	1	25
2-Methylnaphthalene			32.0	29.7		ug/L		93	59 - 120	4	21
2-Methylphenol			32.0	27.3		ug/L		85	39 - 120	4	27
2-Nitroaniline			32.0	32.5		ug/L		102	54 - 127	2	15
2-Nitrophenol			32.0	31.4		ug/L		98	52 - 125	3	18
3,3'-Dichlorobenzidine			64.0	60.7		ug/L		95	49 - 135	10	25
3-Nitroaniline			32.0	30.6		ug/L		96	51 - 120	1	19
4,6-Dinitro-2-methylphenol			64.0	65.4		ug/L		102	46 - 136	3	15
4-Bromophenyl phenyl ether			32.0	30.8		ug/L		96	65 - 120	1	15
4-Chloro-3-methylphenol			32.0	32.6		ug/L		102	61 - 123	4	27
4-Chloroaniline			32.0	30.1		ug/L		94	30 - 120	4	22
4-Chlorophenyl phenyl ether			32.0	31.1		ug/L		97	62 - 120	0	16
4-Methylphenol			32.0	27.3		ug/L		85	29 - 131	2	24
4-Nitroaniline			32.0	32.5		ug/L		102	65 - 120	2	24
4-Nitrophenol			64.0	47.0		ug/L		73	45 - 120	2	48
Acenaphthene			32.0	31.2		ug/L		98	60 - 120	0	24
Acenaphthylene			32.0	32.0		ug/L		100	63 - 120	0	18
Acetophenone			32.0	30.1		ug/L		94	45 - 120	0	20
Anthracene			32.0	31.5		ug/L		98	67 - 120	0	15
Atrazine			64.0	71.9		ug/L		112	71 - 130	0	20
Benzaldehyde			64.0	64.6		ug/L		101	10 - 140	0	20
Benzo(a)anthracene			32.0	31.3		ug/L		98	70 - 121	4	15
Benzo(a)pyrene			32.0	27.8		ug/L		87	60 - 123	1	15
Benzo(b)fluoranthene			32.0	30.8		ug/L		96	66 - 126	4	15
Benzo(g,h,i) perylene			32.0	29.1		ug/L		91	66 - 150	2	15
Benzo(k)fluoranthene			32.0	29.4		ug/L		92	65 - 124	1	22
Biphenyl			32.0	30.6		ug/L		96	59 - 120	0	20
bis (2-chloroisopropyl) ether			32.0	29.2		ug/L		91	21 - 136	5	24
Bis(2-chloroethoxy)methane			32.0	31.3		ug/L		98	50 - 128	3	17
Bis(2-chloroethyl)ether			32.0	31.1		ug/L		97	44 - 120	1	21
Bis(2-ethylhexyl) phthalate			32.0	29.6		ug/L		92	63 - 139	0	15
Butyl benzyl phthalate			32.0	33.0		ug/L		103	70 - 129	1	16
Caprolactam			64.0	24.4		ug/L		38	22 - 120	3	20
Carbazole			32.0	32.1		ug/L		100	66 - 123	0	20
Chrysene			32.0	30.0		ug/L		94	69 - 120	0	15
Dibenz(a,h)anthracene			32.0	28.9		ug/L		90	65 - 135	2	15
Dibenzofuran			32.0	30.8		ug/L		96	66 - 120	1	15
Diethyl phthalate			32.0	34.3		ug/L		107	59 - 127	2	15
Dimethyl phthalate			32.0	34.0		ug/L		106	68 - 120	1	15
Di-n-butyl phthalate			32.0	32.7		ug/L		102	69 - 131	1	15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-600281/3-A
Matrix: Water
Analysis Batch: 600398

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 600281

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Di-n-octyl phthalate			32.0	29.1		ug/L		91	63 - 140	1	16
Fluoranthene			32.0	32.0		ug/L		100	69 - 126	1	15
Fluorene			32.0	31.8		ug/L		100	66 - 120	2	15
Hexachlorobenzene			32.0	29.5		ug/L		92	61 - 120	1	15
Hexachlorobutadiene			32.0	27.9		ug/L		87	35 - 120	1	44
Hexachlorocyclopentadiene			32.0	15.0		ug/L		47	31 - 120	12	49
Hexachloroethane			32.0	26.8		ug/L		84	43 - 120	6	46
Ideno(1,2,3-cd)pyrene			32.0	25.5		ug/L		80	69 - 146	2	15
Isophorone			32.0	31.4		ug/L		98	55 - 120	2	17
Naphthalene			32.0	29.3		ug/L		92	57 - 120	3	29
Nitrobenzene			32.0	29.9		ug/L		93	53 - 123	1	24
N-Nitrosodi-n-propylamine			32.0	31.6		ug/L		99	32 - 140	0	31
Pentachlorophenol			64.0	56.3		ug/L		88	29 - 136	6	37
Phenanthrene			32.0	30.8		ug/L		96	68 - 120	1	15
Phenol			32.0	17.7		ug/L		55	17 - 120	2	34
Pyrene			32.0	33.6		ug/L		105	70 - 125	1	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*103*		*41 - 120*
2-Fluorobiphenyl	*100*		*48 - 120*
2-Fluorophenol	*74*		*35 - 120*
Nitrobenzene-d5 (Surr)	*89*		*46 - 120*
Phenol-d5	*56*		*22 - 120*
p-Terphenyl-d14 (Surr)	*97*		*60 - 148*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-600285/1-A
Matrix: Water
Analysis Batch: 600343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.050	U	0.050	0.0092	ug/L		10/13/21 14:43	10/14/21 09:33	1
4,4'-DDE	0.050	U	0.050	0.012	ug/L		10/13/21 14:43	10/14/21 09:33	1
4,4'-DDT	0.050	U	0.050	0.011	ug/L		10/13/21 14:43	10/14/21 09:33	1
Aldrin	0.050	U	0.050	0.0081	ug/L		10/13/21 14:43	10/14/21 09:33	1
alpha-BHC	0.050	U	0.050	0.0077	ug/L		10/13/21 14:43	10/14/21 09:33	1
beta-BHC	0.050	U	0.050	0.025	ug/L		10/13/21 14:43	10/14/21 09:33	1
cis-Chlordane	0.050	U	0.050	0.015	ug/L		10/13/21 14:43	10/14/21 09:33	1
delta-BHC	0.050	U	0.050	0.010	ug/L		10/13/21 14:43	10/14/21 09:33	1
Dieldrin	0.050	U	0.050	0.0098	ug/L		10/13/21 14:43	10/14/21 09:33	1
Endosulfan I	0.050	U	0.050	0.011	ug/L		10/13/21 14:43	10/14/21 09:33	1
Endosulfan II	0.050	U	0.050	0.012	ug/L		10/13/21 14:43	10/14/21 09:33	1
Endosulfan sulfate	0.050	U	0.050	0.016	ug/L		10/13/21 14:43	10/14/21 09:33	1
Endrin	0.050	U	0.050	0.014	ug/L		10/13/21 14:43	10/14/21 09:33	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		10/13/21 14:43	10/14/21 09:33	1
Endrin ketone	0.050	U	0.050	0.012	ug/L		10/13/21 14:43	10/14/21 09:33	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0080	ug/L		10/13/21 14:43	10/14/21 09:33	1
Heptachlor	0.050	U	0.050	0.0085	ug/L		10/13/21 14:43	10/14/21 09:33	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-600285/1-A
Matrix: Water
Analysis Batch: 600343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	0.050	U	0.050	0.0074	ug/L		10/13/21 14:43	10/14/21 09:33	1
Methoxychlor	0.050	U	0.050	0.014	ug/L		10/13/21 14:43	10/14/21 09:33	1
Toxaphene	0.50	U	0.50	0.12	ug/L		10/13/21 14:43	10/14/21 09:33	1
trans-Chlordane	0.050	U	0.050	0.011	ug/L		10/13/21 14:43	10/14/21 09:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*34*		*20 - 120*	*10/13/21 14:43*	*10/14/21 09:33*	*1*
DCB Decachlorobiphenyl	*49*		*20 - 120*	*10/13/21 14:43*	*10/14/21 09:33*	*1*
Tetrachloro-m-xylene	*74*		*44 - 120*	*10/13/21 14:43*	*10/14/21 09:33*	*1*
Tetrachloro-m-xylene	*65*		*44 - 120*	*10/13/21 14:43*	*10/14/21 09:33*	*1*

Lab Sample ID: LCS 480-600285/2-A
Matrix: Water
Analysis Batch: 600343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.400	0.430		ug/L		108	64 - 129
4,4'-DDE	0.400	0.339		ug/L		85	50 - 120
4,4'-DDT	0.400	0.426		ug/L		107	59 - 120
Aldrin	0.400	0.331		ug/L		83	40 - 125
alpha-BHC	0.400	0.329		ug/L		82	52 - 125
beta-BHC	0.400	0.381		ug/L		95	51 - 120
cis-Chlordane	0.400	0.373		ug/L		93	52 - 120
delta-BHC	0.400	0.395		ug/L		99	51 - 120
Dieldrin	0.400	0.403		ug/L		101	66 - 128
Endosulfan I	0.400	0.388		ug/L		97	57 - 120
Endosulfan II	0.400	0.423		ug/L		106	66 - 131
Endosulfan sulfate	0.400	0.429		ug/L		107	66 - 136
Endrin	0.400	0.418		ug/L		104	65 - 135
Endrin aldehyde	0.400	0.371		ug/L		93	61 - 134
Endrin ketone	0.400	0.433		ug/L		108	71 - 133
gamma-BHC (Lindane)	0.400	0.356		ug/L		89	56 - 120
Heptachlor	0.400	0.351		ug/L		88	58 - 120
Heptachlor epoxide	0.400	0.389		ug/L		97	65 - 125
Methoxychlor	0.400	0.459		ug/L		115	50 - 150
trans-Chlordane	0.400	0.371		ug/L		93	54 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*45*		*20 - 120*
DCB Decachlorobiphenyl	*50*		*20 - 120*
Tetrachloro-m-xylene	*79*		*44 - 120*
Tetrachloro-m-xylene	*76*		*44 - 120*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 480-600285/3-A
Matrix: Water
Analysis Batch: 600343

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 600285

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD			0.400	0.444		ug/L		111	64 - 129	3	23
4,4'-DDE			0.400	0.324		ug/L		81	50 - 120	4	22
4,4'-DDT			0.400	0.447		ug/L		112	59 - 120	5	24
Aldrin			0.400	0.321		ug/L		80	40 - 125	3	25
alpha-BHC			0.400	0.354		ug/L		88	52 - 125	7	24
beta-BHC			0.400	0.397		ug/L		99	51 - 120	4	24
cis-Chlordane			0.400	0.389		ug/L		97	52 - 120	4	23
delta-BHC			0.400	0.392		ug/L		98	51 - 120	1	24
Dieldrin			0.400	0.410		ug/L		103	66 - 128	2	24
Endosulfan I			0.400	0.400		ug/L		100	57 - 120	3	30
Endosulfan II			0.400	0.443		ug/L		111	66 - 131	4	40
Endosulfan sulfate			0.400	0.435		ug/L		109	66 - 136	1	24
Endrin			0.400	0.435		ug/L		109	65 - 135	4	24
Endrin aldehyde			0.400	0.425		ug/L		106	61 - 134	14	28
Endrin ketone			0.400	0.448		ug/L		112	71 - 133	3	26
gamma-BHC (Lindane)			0.400	0.380		ug/L		95	56 - 120	7	24
Heptachlor			0.400	0.377		ug/L		94	58 - 120	7	25
Heptachlor epoxide			0.400	0.403		ug/L		101	65 - 125	3	23
Methoxychlor			0.400	0.490		ug/L		122	50 - 150	7	26
trans-Chlordane			0.400	0.384		ug/L		96	54 - 120	4	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*50*		*20 - 120*
DCB Decachlorobiphenyl	*53*		*20 - 120*
Tetrachloro-m-xylene	*84*		*44 - 120*
Tetrachloro-m-xylene	*83*		*44 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-600339/1-A
Matrix: Water
Analysis Batch: 600442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.50	U	0.50	0.18	ug/L		10/14/21 06:52	10/14/21 17:45	1
PCB-1221	0.50	U	0.50	0.18	ug/L		10/14/21 06:52	10/14/21 17:45	1
PCB-1232	0.50	U	0.50	0.18	ug/L		10/14/21 06:52	10/14/21 17:45	1
PCB-1242	0.50	U	0.50	0.18	ug/L		10/14/21 06:52	10/14/21 17:45	1
PCB-1248	0.50	U	0.50	0.18	ug/L		10/14/21 06:52	10/14/21 17:45	1
PCB-1254	0.50	U	0.50	0.25	ug/L		10/14/21 06:52	10/14/21 17:45	1
PCB-1260	0.50	U	0.50	0.25	ug/L		10/14/21 06:52	10/14/21 17:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*55*		*19 - 120*	*10/14/21 06:52*	*10/14/21 17:45*	*1*
DCB Decachlorobiphenyl	*49*		*19 - 120*	*10/14/21 06:52*	*10/14/21 17:45*	*1*
Tetrachloro-m-xylene	*62*		*39 - 121*	*10/14/21 06:52*	*10/14/21 17:45*	*1*
Tetrachloro-m-xylene	*69*		*39 - 121*	*10/14/21 06:52*	*10/14/21 17:45*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-600339/2-A
Matrix: Water
Analysis Batch: 600442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600339

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			4.00	3.46		ug/L		86	62 - 130		
PCB-1260			4.00	3.38		ug/L		84	56 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*44*		*19 - 120*
DCB Decachlorobiphenyl	*42*		*19 - 120*
Tetrachloro-m-xylene	*67*		*39 - 121*
Tetrachloro-m-xylene	*73*		*39 - 121*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-600176/1-A
Matrix: Water
Analysis Batch: 600940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600176

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.50	U	0.50	0.068	ug/L		10/13/21 09:04	10/19/21 08:50	1
2,4-D	0.50	U	0.50	0.17	ug/L		10/13/21 09:04	10/19/21 08:50	1
Dichlorprop	0.50	U	0.50	0.12	ug/L		10/13/21 09:04	10/19/21 08:50	1
Dinoseb	0.50	U	0.50	0.14	ug/L		10/13/21 09:04	10/19/21 08:50	1
Pentachlorophenol	0.50	U	0.50	0.049	ug/L		10/13/21 09:04	10/19/21 08:50	1
Picloram	0.50	U	0.50	0.072	ug/L		10/13/21 09:04	10/19/21 08:50	1
Silvex (2,4,5-TP)	0.50	U	0.50	0.050	ug/L		10/13/21 09:04	10/19/21 08:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*78*		*48 - 132*	*10/13/21 09:04*	*10/19/21 08:50*	*1*
2,4-Dichlorophenylacetic acid	*76*		*48 - 132*	*10/13/21 09:04*	*10/19/21 08:50*	*1*

Lab Sample ID: LCS 480-600176/2-A
Matrix: Water
Analysis Batch: 600940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600176

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			2.00	2.00		ug/L		100	41 - 150		
2,4-D			2.00	1.73		ug/L		87	36 - 150		
Dichlorprop			2.00	1.61		ug/L		80	33 - 150		
Dinoseb			2.00	2.08		ug/L		104	21 - 120		
Pentachlorophenol			2.00	1.72		ug/L		86	29 - 143		
Picloram			2.00	2.30		ug/L		115	34 - 150		
Silvex (2,4,5-TP)			2.00	1.90		ug/L		95	49 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*93*		*48 - 132*
2,4-Dichlorophenylacetic acid	*94*		*48 - 132*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-600131/1-A
Matrix: Water
Analysis Batch: 600392

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600131

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	U	0.015	0.0056	mg/L		10/13/21 09:33	10/13/21 16:06	1
Barium	0.0020	U	0.0020	0.00070	mg/L		10/13/21 09:33	10/13/21 16:06	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		10/13/21 09:33	10/13/21 16:06	1
Chromium	0.0040	U	0.0040	0.0010	mg/L		10/13/21 09:33	10/13/21 16:06	1
Lead	0.010	U	0.010	0.0030	mg/L		10/13/21 09:33	10/13/21 16:06	1
Selenium	0.025	U	0.025	0.0087	mg/L		10/13/21 09:33	10/13/21 16:06	1
Silver	0.0060	U	0.0060	0.0017	mg/L		10/13/21 09:33	10/13/21 16:06	1

Lab Sample ID: LCS 480-600131/2-A
Matrix: Water
Analysis Batch: 600392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600131

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.205		mg/L		102	80 - 120
Barium	0.200	0.226		mg/L		113	80 - 120
Cadmium	0.200	0.210		mg/L		105	80 - 120
Chromium	0.200	0.203		mg/L		101	80 - 120
Lead	0.200	0.197		mg/L		99	80 - 120
Selenium	0.200	0.198		mg/L		99	80 - 120
Silver	0.0500	0.0504		mg/L		101	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-600474/1-A
Matrix: Water
Analysis Batch: 600526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600474

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		10/14/21 14:36	10/14/21 18:34	1

Lab Sample ID: LCS 480-600474/2-A
Matrix: Water
Analysis Batch: 600526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600474

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00700		mg/L		105	80 - 120

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-600507/1
Matrix: Water
Analysis Batch: 600507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-601043/1-A
Matrix: Water
Analysis Batch: 601055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601043

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	10.0	U	10.0	10.0	mg/L		10/19/21 11:00	10/19/21 14:12	1

Lab Sample ID: LCS 480-601043/2-A
Matrix: Water
Analysis Batch: 601055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601043

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	200	U	mg/L		11	10 - 100

Lab Sample ID: 480-190791-1 DU
Matrix: Water
Analysis Batch: 601055

Client Sample ID: IDW-01-10062021
Prep Type: Total/NA
Prep Batch: 601043

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Reactive	10.0	U	10.0	U	mg/L		NC	20

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-601069/1-A
Matrix: Water
Analysis Batch: 601054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601069

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	10.0	U	10.0	10.0	mg/L		10/19/21 11:00	10/19/21 14:20	1

Lab Sample ID: LCS 480-601069/2-A
Matrix: Water
Analysis Batch: 601054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601069

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	820	561.1		mg/L		68	10 - 100

Lab Sample ID: 480-190791-1 DU
Matrix: Water
Analysis Batch: 601054

Client Sample ID: IDW-01-10062021
Prep Type: Total/NA
Prep Batch: 601069

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide, Reactive	10.0	U	10.0	U	mg/L		NC	20

QC Association Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190791-1

GC/MS VOA

Analysis Batch: 600411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	8260C	
480-190791-2	IDW-02-10062021	Total/NA	Water	8260C	
480-190791-3	TRIP BLANK	Total/NA	Water	8260C	
MB 480-600411/6	Method Blank	Total/NA	Water	8260C	
LCS 480-600411/4	Lab Control Sample	Total/NA	Water	8260C	
480-190791-1 MS	IDW-01-10062021	Total/NA	Water	8260C	
480-190791-1 MSD	IDW-01-10062021	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 600281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	3510C	
480-190791-1 - DL	IDW-01-10062021	Total/NA	Water	3510C	
480-190791-2	IDW-02-10062021	Total/NA	Water	3510C	
480-190791-2 - DL	IDW-02-10062021	Total/NA	Water	3510C	
MB 480-600281/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-600281/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-600281/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 600398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	8270D	600281
480-190791-2	IDW-02-10062021	Total/NA	Water	8270D	600281
MB 480-600281/1-A	Method Blank	Total/NA	Water	8270D	600281
LCS 480-600281/2-A	Lab Control Sample	Total/NA	Water	8270D	600281
LCSD 480-600281/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	600281

Analysis Batch: 600567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1 - DL	IDW-01-10062021	Total/NA	Water	8270D	600281
480-190791-2 - DL	IDW-02-10062021	Total/NA	Water	8270D	600281

GC Semi VOA

Prep Batch: 600176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	8151A	
480-190791-2	IDW-02-10062021	Total/NA	Water	8151A	
MB 480-600176/1-A	Method Blank	Total/NA	Water	8151A	
LCS 480-600176/2-A	Lab Control Sample	Total/NA	Water	8151A	

Prep Batch: 600285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	3510C	
480-190791-2	IDW-02-10062021	Total/NA	Water	3510C	
MB 480-600285/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-600285/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-600285/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA

Prep Batch: 600339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	3510C	
480-190791-2	IDW-02-10062021	Total/NA	Water	3510C	
MB 480-600339/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-600339/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 600343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	8081B	600285
480-190791-2	IDW-02-10062021	Total/NA	Water	8081B	600285
MB 480-600285/1-A	Method Blank	Total/NA	Water	8081B	600285
LCS 480-600285/2-A	Lab Control Sample	Total/NA	Water	8081B	600285
LCSD 480-600285/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	600285

Analysis Batch: 600442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	8082A	600339
480-190791-2	IDW-02-10062021	Total/NA	Water	8082A	600339
MB 480-600339/1-A	Method Blank	Total/NA	Water	8082A	600339
LCS 480-600339/2-A	Lab Control Sample	Total/NA	Water	8082A	600339

Analysis Batch: 600940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	8151A	600176
480-190791-2	IDW-02-10062021	Total/NA	Water	8151A	600176
MB 480-600176/1-A	Method Blank	Total/NA	Water	8151A	600176
LCS 480-600176/2-A	Lab Control Sample	Total/NA	Water	8151A	600176

Metals

Prep Batch: 600131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	3005A	
480-190791-2	IDW-02-10062021	Total/NA	Water	3005A	
MB 480-600131/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-600131/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 600392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	6010C	600131
480-190791-2	IDW-02-10062021	Total/NA	Water	6010C	600131
MB 480-600131/1-A	Method Blank	Total/NA	Water	6010C	600131
LCS 480-600131/2-A	Lab Control Sample	Total/NA	Water	6010C	600131

Prep Batch: 600474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	7470A	
480-190791-2	IDW-02-10062021	Total/NA	Water	7470A	
MB 480-600474/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-600474/2-A	Lab Control Sample	Total/NA	Water	7470A	

QC Association Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190791-1

Metals

Analysis Batch: 600526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	7470A	600474
480-190791-2	IDW-02-10062021	Total/NA	Water	7470A	600474
MB 480-600474/1-A	Method Blank	Total/NA	Water	7470A	600474
LCS 480-600474/2-A	Lab Control Sample	Total/NA	Water	7470A	600474

General Chemistry

Analysis Batch: 600361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	9040C	
480-190791-2	IDW-02-10062021	Total/NA	Water	9040C	
LCS 480-600361/23	Lab Control Sample	Total/NA	Water	9040C	
LCS 480-600361/45	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 600507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	1010A	
480-190791-2	IDW-02-10062021	Total/NA	Water	1010A	
LCS 480-600507/1	Lab Control Sample	Total/NA	Water	1010A	

Prep Batch: 601043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	7.3.3	
480-190791-2	IDW-02-10062021	Total/NA	Water	7.3.3	
MB 480-601043/1-A	Method Blank	Total/NA	Water	7.3.3	
LCS 480-601043/2-A	Lab Control Sample	Total/NA	Water	7.3.3	
480-190791-1 DU	IDW-01-10062021	Total/NA	Water	7.3.3	

Analysis Batch: 601054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	9034	601069
480-190791-2	IDW-02-10062021	Total/NA	Water	9034	601069
MB 480-601069/1-A	Method Blank	Total/NA	Water	9034	601069
LCS 480-601069/2-A	Lab Control Sample	Total/NA	Water	9034	601069
480-190791-1 DU	IDW-01-10062021	Total/NA	Water	9034	601069

Analysis Batch: 601055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	9012	601043
480-190791-2	IDW-02-10062021	Total/NA	Water	9012	601043
MB 480-601043/1-A	Method Blank	Total/NA	Water	9012	601043
LCS 480-601043/2-A	Lab Control Sample	Total/NA	Water	9012	601043
480-190791-1 DU	IDW-01-10062021	Total/NA	Water	9012	601043

Prep Batch: 601069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190791-1	IDW-01-10062021	Total/NA	Water	7.3.4	
480-190791-2	IDW-02-10062021	Total/NA	Water	7.3.4	
MB 480-601069/1-A	Method Blank	Total/NA	Water	7.3.4	
LCS 480-601069/2-A	Lab Control Sample	Total/NA	Water	7.3.4	
480-190791-1 DU	IDW-01-10062021	Total/NA	Water	7.3.4	

Lab Chronicle

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190791-1

Client Sample ID: IDW-01-10062021

Lab Sample ID: 480-190791-1

Date Collected: 10/06/21 09:30

Matrix: Water

Date Received: 10/12/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	600411	10/14/21 12:25	WJD	TAL BUF
Total/NA	Prep	3510C			600281	10/13/21 14:36	CMC	TAL BUF
Total/NA	Analysis	8270D		1	600398	10/14/21 19:52	JMM	TAL BUF
Total/NA	Prep	3510C	DL		600281	10/13/21 14:36	CMC	TAL BUF
Total/NA	Analysis	8270D	DL	50	600567	10/15/21 20:52	JMM	TAL BUF
Total/NA	Prep	3510C			600285	10/13/21 14:43	CMC	TAL BUF
Total/NA	Analysis	8081B		1	600343	10/14/21 10:32	JLS	TAL BUF
Total/NA	Prep	3510C			600339	10/14/21 06:52	SMP	TAL BUF
Total/NA	Analysis	8082A		1	600442	10/15/21 06:57	W1T	TAL BUF
Total/NA	Prep	8151A			600176	10/13/21 11:20	JMP	TAL BUF
Total/NA	Analysis	8151A		1	600940	10/19/21 10:19	MAN	TAL BUF
Total/NA	Prep	3005A			600131	10/13/21 09:33	KMP	TAL BUF
Total/NA	Analysis	6010C		1	600392	10/13/21 17:50	AMH	TAL BUF
Total/NA	Prep	7470A			600474	10/14/21 14:36	BMB	TAL BUF
Total/NA	Analysis	7470A		1	600526	10/14/21 18:39	BMB	TAL BUF
Total/NA	Analysis	1010A		1	600507	10/14/21 16:58	JGO	TAL BUF
Total/NA	Prep	7.3.3			601043	10/19/21 11:00	SRA	TAL BUF
Total/NA	Analysis	9012		1	601055	10/19/21 14:14	SRA	TAL BUF
Total/NA	Prep	7.3.4			601069	10/19/21 11:00	SRA	TAL BUF
Total/NA	Analysis	9034		1	601054	10/19/21 14:20	SRA	TAL BUF
Total/NA	Analysis	9040C		1	600361	10/13/21 17:57	KEB	TAL BUF

Client Sample ID: IDW-02-10062021

Lab Sample ID: 480-190791-2

Date Collected: 10/06/21 11:40

Matrix: Water

Date Received: 10/12/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	600411	10/14/21 12:48	WJD	TAL BUF
Total/NA	Prep	3510C			600281	10/13/21 14:36	CMC	TAL BUF
Total/NA	Analysis	8270D		1	600398	10/14/21 20:20	JMM	TAL BUF
Total/NA	Prep	3510C	DL		600281	10/13/21 14:36	CMC	TAL BUF
Total/NA	Analysis	8270D	DL	50	600567	10/15/21 21:19	JMM	TAL BUF
Total/NA	Prep	3510C			600285	10/13/21 14:43	CMC	TAL BUF
Total/NA	Analysis	8081B		1	600343	10/14/21 10:51	JLS	TAL BUF
Total/NA	Prep	3510C			600339	10/14/21 06:52	SMP	TAL BUF
Total/NA	Analysis	8082A		1	600442	10/15/21 07:10	W1T	TAL BUF
Total/NA	Prep	8151A			600176	10/13/21 11:20	JMP	TAL BUF
Total/NA	Analysis	8151A		1	600940	10/19/21 10:49	MAN	TAL BUF
Total/NA	Prep	3005A			600131	10/13/21 09:33	KMP	TAL BUF
Total/NA	Analysis	6010C		1	600392	10/13/21 17:54	AMH	TAL BUF
Total/NA	Prep	7470A			600474	10/14/21 14:36	BMB	TAL BUF
Total/NA	Analysis	7470A		1	600526	10/14/21 18:40	BMB	TAL BUF
Total/NA	Analysis	1010A		1	600507	10/14/21 16:58	JGO	TAL BUF

Lab Chronicle

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190791-1

Client Sample ID: IDW-02-10062021

Lab Sample ID: 480-190791-2

Date Collected: 10/06/21 11:40

Matrix: Water

Date Received: 10/12/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7.3.3			601043	10/19/21 11:00	SRA	TAL BUF
Total/NA	Analysis	9012		1	601055	10/19/21 14:17	SRA	TAL BUF
Total/NA	Prep	7.3.4			601069	10/19/21 11:00	SRA	TAL BUF
Total/NA	Analysis	9034		1	601054	10/19/21 14:20	SRA	TAL BUF
Total/NA	Analysis	9040C		1	600361	10/13/21 17:58	KEB	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-190791-3

Date Collected: 10/06/21 00:00

Matrix: Water

Date Received: 10/12/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	600411	10/14/21 13:11	WJD	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190791-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1010A		Water	Flashpoint
8151A	8151A	Water	Picloram
9012	7.3.3	Water	Cyanide, Reactive
9034	7.3.4	Water	Sulfide, Reactive
9040C		Water	pH
9040C		Water	Temperature

Method Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190791-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9040C	pH	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7.3.3	Cyanide, Reactive	SW846	TAL BUF
7.3.4	Sulfide, Reactive	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
8151A	Extraction (Herbicides)	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Parsons Corporation
Project/Site: Avangrid - Clark Street

Job ID: 480-190791-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-190791-1	IDW-01-10062021	Water	10/06/21 09:30	10/12/21 10:00
480-190791-2	IDW-02-10062021	Water	10/06/21 11:40	10/12/21 10:00
480-190791-3	TRIP BLANK	Water	10/06/21 00:00	10/12/21 10:00

BF-SC-LF-003
Rev.2 8/28/2017

SAMPLE LOGIN

Project 48024389 **Event** Avangrid Clark street

Analysis Groups ______

TAT ____ **# SAMPLES:** 2 **TRIP BLANK? Y/N** (Y circled) 1 **#/date** ______

Custody Seal Intact Y/N NONE **Rad Check <0.02 mR/hr Y/N**

Residual Chlorine Check Y/N/ NA **Pres Checked Y/N/NA**

No coc. Delayed cooler, out of temp

480-190791 Chain of Custody

Workshare/Subcontract Y/N Lab ______

Received out of hold: Samples ______ **Analysis** ______

Checklist/NCM's ______

IDW-01-10062021 10/6 @930 2 1Lnpa 2/250NPP

IDW-02-10062021 10/6 @1140 1 500npP 3 40HCL voa

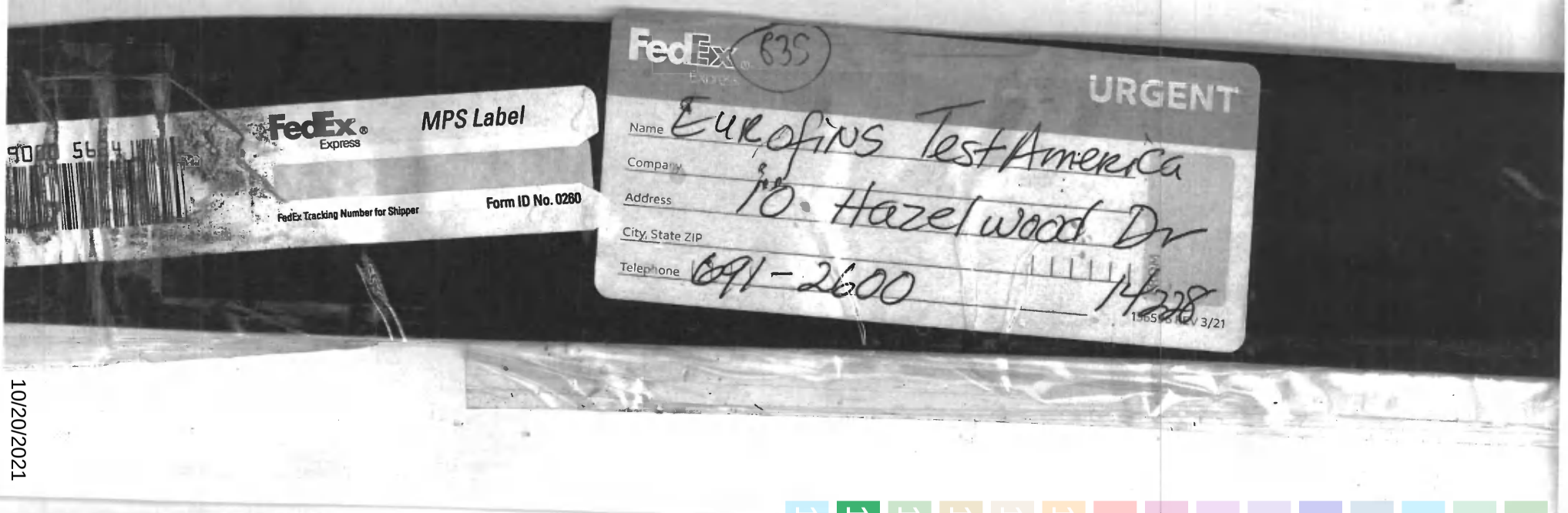
6 250 npa

1 250 HNO3 P

Temperature(s) **#of coolers** 1 **IR Gun** (1 circled) 1 2 3

Temp 16.8 #1 ICE

10/12/21 1600 fedex OUT/ over goods no client fedex tag


FedEx Express
MPS Label
FedEx Tracking Number for Shipper
Form ID No. 0260
FedEx
URGENT
835
Name Eurofins TestAmerica
Company
Address 10 Hazelwood Dr
City, State ZIP
Telephone 691-2600
14228
3/21

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins. Environment Testing America

Client Information	Sampler: Zack Cornish	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-166080-36393.1
Client Contact: Cathy Adamitis	Phone: 607-354-6482	E-Mail: John.Schove@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Parsons Corporation	PWSID:			Job #:

Address: 301 Plainfield Road Suite 350	Due Date Requested:	
City: Syracuse	TAT Requested (days): 10 DAY	
State, Zip: NY, 13212	Compliance Project: Δ Yes Δ No	
Phone:	PO #: 452562.452563..60214.07	
Email: catherine.adamitis@parsons.com	WO #: 45262.03000	
Project Name: Avangrid - Clark Street	Project #: 48024389	
Site: 211 Clark St, Auburn NY	SSOW#:	

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - TCL PCBs	8081B - TCL Pesticides	8270D - TCL SVOCs	6010C, 7470A	8260C - TCL VOCs	8151A - Herbicides	9012_ReactiveCN, 9034_Reactive	9040C - pH - Corrosivity	1010A - Ignitability/Flashpoint	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	D	A	N	N	N	N		
TB-01-10062021	10/6/21	0900	G	Water	N	N					2					2	
IDW-01-10062021	10/6/21	0930	G	Water	N	N	2	2	2	1	3	2	1	1	1	15	RW1 - RW6
IDW-02-10062021	10/6/21	1140	G	W	N	N	2	2	2	1	3	2	1	1	1	15	RW6 - RW10

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Zack Cornish	10/6/21 / 1900	Parsons			
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-190791-1

Login Number: 190791
List Number: 1
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Ice was melted
Cooler Temperature is acceptable.	False	16.8 degrees C
Cooler Temperature is recorded.	True	
COC is present.	False	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	N/A	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

APPENDIX E – PHOTOGRAPHIC LOG

Observations:

Photographs 1 and 2 show the streambank at Clark Street former MGP during the July reconnaissance site visit. Photos 3 and 4 show a vegetation plots from the September vegetation survey. Photos 5 and 6 show the August herbicide treatment of sparse stems of Japanese knotweed (*Reynoutria japonica*).

Photograph 1

Photograph 2

Photograph 3

Photograph 4

Photograph 5

Photograph 6

APPENDIX F – SITE MANAGEMENT FORM

Institutional and Engineering Controls Inspection Form

I. Site Information

Site No.: 70-06-008 Site Name: **Clark Street Former Manufactured Gas Plant**

Site Address: 211 Clark Street Zip Code: 13021

City/Town: **Auburn, NY** County: **Cayuga**

Current Use: vacant unimproved gravel lot

II. Site Conditions

- Physical characteristics of the Site-flat, open gravel lot with vegetated banks along the river
- Current Site operations- annual groundwater and quarterly NAPL monitoring, annual inspection

III. Site Inspection Checklist

	YES	NO
1. Has some or all of the Site property been sold, subdivided, merged, or undergonea tax map amendment since the initial/last certification? 7/15/21: NO		
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?		
2. Have any amendments and/or additional filings been recorded that maymodify or supersede the Environmental Easement? 7/15/21: NO		
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?		
3. Have any federal, state, and/or local permits (e.g., building permit) beenissued for or at the property since the initial/last certification? 7/15/21: NO		
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?		
4. Has there been an actual or pending zoning or land-use change for the RestrictedArea on which the Environmental Easement is filed?		
If YES, is documentation or evidence that documentation has been previously submitted included with this certification? 7/15/21: NO		

5. Have periodic inspections of the Site identified any excavation or other disturbance activities that have taken place within the institutional control areas or other areas subject to the Site Management Plan?
   7/15/21: INSTALLATION OF GROUNDWATER AND NAPL MONITORING WELLS IN THE SPRING OF 2021

6. Is the Site cover is good working condition, free of excess wear and tear, and without obvious signs of failure? Note any observed deficiencies.

   7/15/21: Site is in good condition; there is some minor natural erosion on the north end of the bank.

   If YES, is the new information or evidence that new information has been previously submitted included with this Certification?
   7/15/21: Yes, this is new information, included above.

Control Certification Statement

For each Institutional or Engineering control listed above, I certify by checking "Yes" that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control;

(d) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(e) if a financial assurance mechanism is required under the oversight document for the site, the mechanism remains valid and sufficient for the intended purpose under the document;

(f) use of the site is compliant with the Environmental Easement;

(g) the information presented in this report is accurate and complete;

(h) no new information has come to my attention, including groundwater monitoring data from wells located at the site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off- site contamination are no longer valid; and

(i) the assumptions made in the qualitative exposure assessment remain valid.

IC/EC CERTIFICATIONS SITE NO. 70-06-008

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I_____at_____,
print name print business address

am certifying as OWNER (Owner or Remedial Party) for the Site named in the Site Information Section of this form.

_____ _____
Owner or Remedial Party Rendering Certification Date

QUALIFIED ENVIRONMENTAL PROFESSIONAL (QEP) SIGNATURE

I, Raymond D'Hollander, P.E. at Parsons, 301 Plainfield Road, Ste 350, Syracuse NY, 13212
am certifying as a Qualified Environmental Professional for the Site named in the Site Information Section of this form.

_____ _____ 4/5/22
Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification Stamp (if Required) Date