

Period Review Report (April 9, 2021 through April 8, 2022)

Former Scott Aviation Facility - West of Plant 2 Lancaster, New York NYSDEC Site Code No. 9-15-149

Project number: 60676130-1

June 3, 2022

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List of Acronyms

ABC+® Anaerobic BioChem and zero valent iron

ABC-Ole® a mixture of Anaerobic Biochem, zero valent iron, and emulsified fatty acids

AMSL above mean sea level

AECOM Technical Services, Inc.

AS air stripper

bgs below ground surface
BSA Buffalo Sewer Authority
cis-1,2-DCE cis-1,2-dichloroethene

CD compact disc

1,1-DCA 1,1-dichloroethane
Dhb dehalobacter
Dhc dehalococcoides

DPE dual-phase extraction

EC/BPDES Erie County/Buffalo Pollution Discharge Elimination System

ERD Enhanced Reductive Dechlorination

ft feet

gpm gallons per minute

GWCT groundwater collection trench
GWTB groundwater treatment building

HES Heritage Environmental Services, LLC

IC/EC Institutional Controls and Engineering Controls

lb/hr pounds per hour

LNAPL light non-aqueous phase liquid

LRP liquid ring pump

Matrix Environmental Technologies, Inc.

mg/kg milligram per kilogram

MNA monitored natural attenuation
MVS mechanical volatilization system

µg/m3 micrograms per cubic meter

µg/L micrograms per liter mg/L milligrams per liter

NYSDEC New York State Department of Environmental Conservation

O&M operation and maintenance

PFAS per- and polyfluoroalkyl substances

PRR Periodic Review Report

RAER Remedial Action Engineering Report

RAO Remedial Action Objective
RDWP Remedial Design Work Plan

RI/FS remedial investigation/feasibility study

ROD Record of Decision

SICR Site Investigation Completion Report

SVE soil vapor extraction 1,1,1-TCA 1,1,1-trichloroethane

TCE trichloroethene

TEH total extractable hydrocarbons

TOC total organic carbon

TOGS Technical and Operational Guidance Series

TSS total suspended solids

USEPA United States Environmental Protection Agency

UST underground storage tank

VC vinyl chloride

VOC volatile organic compound

ZVI zero valent iron

1. Introduction

On behalf of Scott Figgie LLC (successor to Scott Technologies, Inc., which was a successor to Figgie International), hereinafter "Scott", and pursuant to the requirements of New York State Department of Environmental Conservation (NYSDEC), Order on Consent, Index No. B9-0377095-05, AECOM Technical Services, Inc. (AECOM) prepared this Periodic Review Report (PRR) to summarize the operation and maintenance (O&M) and groundwater monitoring activities for the combined dual-phase extraction (DPE) remediation system at the former Scott Aviation facility (the "Site"), NYSDEC Site Code No. 9-15-149, located at 225 Erie Street, Village of Lancaster, County of Erie, State of New York (Figure 1). A selected remedy for soil and groundwater was described in the Record of Decision (ROD), Scott Aviation Site, Village of Lancaster, Erie County, Site Number 9-15-149, which was signed into Declaration on November 7, 1994 (NYSDEC, November 1994). The reporting period discussed herein encompasses the period between April 9, 2021 and April 8, 2022. This is the seventeenth comprehensive remediation report.

1.1 Report Organization

The purpose of this PRR is to provide a summary of the current remediation system configuration, describe significant O&M and groundwater monitoring activities, discuss overall remediation system performance during the reporting period, and provide recommendations for future combined DPE remediation system operation.

This PRR was developed in general conformance with NYSDEC site investigation and remediation requirements (NYSDEC DER-10, May 2010). More specifically, this report provides the following information:

- Report organization details, a brief summary of Site history, previous Site investigations, remediation activities, and remedial action objectives (RAOs) for the Site (Section 1);
- A description of the current combined DPE remediation system configuration and detailed summary of O&M activities performed during the reporting period (Section 2);
- A groundwater monitoring program summary including a description of groundwater monitoring
 activities completed during the reporting period, a detailed review of the April 2022 comprehensive
 groundwater monitoring event, and a comparison of historical comprehensive groundwater analytical
 results to the April 2022 comprehensive groundwater analytical results (Section 3);
- A summary of groundwater remediation system monitoring and O&M and remediation progress (Section 4);
- Conclusions, a description of upcoming Site-related activities, and a proposed monitoring and compliance sampling schedule (**Section 5**);
- Certification of the Institutional Controls and Engineering Controls (IC/EC; Section 6); and,
- References used in the preparation of this report (Section 7).
- Supporting information used in the preparation of this PRR is included in six appendices:
- Appendix A contains a copy of the O&M checklist used for the combined DPE remediation system;
- Appendix B provides the groundwater sampling logs for the Site monitoring wells sampled in April 2022:
- Appendix C presents a current and historical summary of groundwater elevations measured for the Site monitoring wells sampled in April 2022;
- Appendix D provides a current and historical summary of the volatile organic compounds (VOCs) detected in the Site monitoring wells sampled in April 2022;
- Appendix E provides all April 2022 analytical data packages on compact disc; and

• Appendix F includes the completed IC/EC certification.

1.2 Site Background

The following subsections present a brief summary of Site history and previous investigation and remediation activities.

1.2.1 Site Geology/Hydrogeology

The native soils underlying the Site generally consist of interbedded silts and clays with discontinuous sporadic fine sand lenses (shallow overburden). A thin coarse-grained layer is located above the bedrock (deep overburden). The average thickness of the overburden is approximately 21 feet (ft), ranging from 20 ft in the south to 26 ft in the north.

Groundwater is first encountered at the Site in the shallow overburden and then again just above the bedrock in the deep overburden. The natural flow of groundwater at the Site in both the shallow and deep overburden is to the northwest. Depth to groundwater across the Site in both the shallow and deep overburden is measured quarterly and is discussed in detail in Section 3.2 of this report.

1.2.2 Site Remedial Investigation/Feasibility Study

A 3,000-gallon underground storage tank (UST) was previously located at the Site, immediately adjacent to the southwestern corner of Scott Aviation Plant 2 (**Figure 2**). The UST was used to store waste cutting oil and spent chlorinated solvents generated during manufacturing operations conducted in Plant 2. Activities at Plant 2 have historically included the machining of piece parts from metal feedstock and the fabrication of cores to fit into devices that provide emergency oxygen upon demand in commercial aircraft (Earth Tech, April 2004).

During April 1991, the former Site owner, Figgie International, removed the UST. Based on contamination discovered during the removal of the UST, Figgie International entered into a remedial investigation/feasibility study (RI/FS) Order on Consent with the NYSDEC on July 9, 1992, and an RI was initiated by Versar, Inc. on behalf of Figgie International in the immediate area surrounding the former UST location. The final RI report, approved by the NYSDEC on December 13, 1993, indicated the presence of VOCs in excess of NYSDEC soil and groundwater guidance values to the west of Plant 2. A subsequent FS report was prepared by Figgie International and approved by the NYSDEC on August 29, 1994 (O'Brien & Gere, July 1996).

1.2.3 Record of Decision

Based on the results of the RI/FS, the NYSDEC prepared a ROD, dated November 7, 1994, which required remedial actions to be initiated to address contaminated soils and groundwater at the Site. The ROD specified that soil remediation would be accomplished by excavating all soils with VOCs above Site-specific RAOs and subsequently treating the soil on-Site using an ex-situ soil vapor extraction (SVE) system. The established RAOs for the Site are presented in Table 1 and are discussed further in Section 1.3 of this report. The ROD also specified that groundwater remediation would be performed by installing a groundwater collection trench (GWCT) west of Plant 2 to induce hydraulic capture of groundwater impacted with VOCs and by constructing an associated groundwater treatment system. A ROD Amendment approving the use of a mechanical volatilization system (MVS) to treat excavated soils in lieu of the proposed ex-situ SVE system was issued by the NYSDEC on April 19, 1995 (O'Brien & Gere, July 1996).

1.2.4 Previous Remediation Activities

This section summarizes previous soil and groundwater remedial activities performed at the Site.

1.2.4.1 Source Area Soil Excavation and Treatment

Following approval of the Remedial Design by the NYSDEC in September 1995, soil remediation actions were initiated. Soils to the west of Plant 2 in the vicinity of the former UST were excavated and treated on-

Site using an MVS (see **Figure 2** for former UST location). The MVS process consisted of a screening plant and hammermill shredder that mechanically pulverized and aerated the excavated soil that had previously been amended with pulverized quick lime. Volatilization of the VOCs from the soil occurred as a result of the sieving and pulverizing actions and also because of the heat generated by the reaction of lime with moisture in the soil. Approximately 5,600 cubic yards of soil were excavated from depths ranging between 2 ft and 21 ft below ground surface (bgs; bedrock contact) and treated using the MVS. Based on analytical results for the treated soil (each individual VOC <1 milligram per kilogram (mg/kg) and total VOCs <10 mg/kg), on December 11, 1995 the NYSDEC approved backfilling the excavation with the originally excavated soil processed on-Site with the MVS. Backfilling of the excavation was completed on December 19, 1995, which included a soil cover of the treated soil.

1.2.4.2 Groundwater Collection Trench

In accordance with the ROD, a 200-foot long GWCT was constructed approximately 90 ft west of Plant 2 during February 1996. The purpose of the trench was to maintain hydraulic control of VOC-impacted groundwater. The bottom of the trench was excavated down to bedrock (approximately 25 ft bgs). The bottom five feet of the trench consists of rounded pea gravel and the top 20 feet of the trench was backfilled with remediated soils. A 6-inch diameter slotted high density polyethylene pipe located at the bottom of the trench conveys water to a wet well located at the north end of the trench. The water is transferred from the wet well using a submersible pump through a 1-inch diameter schedule 80 polyvinyl chloride pipe to a treatment system located in the Groundwater Treatment Building (GWTB) located immediately west of Plant 2.

The groundwater treatment system consists of a low-profile shallow tray air stripper (AS) unit. Treated water from the AS unit is discharged to the Buffalo Sewer Authority (BSA) under an Erie County/ Buffalo Pollutant Discharge Elimination System (EC/BPDES) permit via a 2-inch diameter force main that discharges to a BSA sanitary sewer located south of the GWTB at Erie Street (O'Brien & Gere, July 1996). Start-up of the groundwater treatment system occurred on March 1, 1996. **Figure 2** shows the location of the GWCT and GWTB.

1.2.5 Additional Investigation Activities

Annual groundwater monitoring completed in April 1998 indicated an increasing trend in VOC concentrations in MW-4, located to the west of the GWCT at the western property boundary of the Site. Additionally, light non-aqueous phase liquid (LNAPL) was observed at MW-4 on the water level probe during a quarterly monitoring event conducted in November 1998. In April 1999, four new monitoring wells (designated MW-7, MW-8, MW-9, and MW-10) were installed to evaluate the extent and potential source of VOCs and LNAPL observed in MW-4. Based on repeated detections of VOCs and LNAPL in the groundwater to the west of the GWCT, a comprehensive site investigation was conducted in February 2003 to further assess the vertical and horizontal extent of VOCs and LNAPL.

During the 2003 investigation, LNAPL was observed in MW-8 only. A total of 21 direct push technology borings were advanced to the east and west of the GWCT to further assess the extent of impacted soils west of Plant 2. Results were summarized in the June 2003 Site Investigation Completion Report (SICR), and the data indicated the continued presence of chlorinated VOCs above the RAOs in the saturated soil and groundwater, primarily to the west of the GWCT (Earth Tech, June 2003).

1.2.6 Remedial Alternatives Analysis

Based upon the results of the 2003 investigation, a remedial alternatives analysis was completed, and results were included in the SICR. DPE was recommended to be implemented to supplement the existing remediation system and to further remediate VOCs in soil and groundwater at the Site (Earth Tech, June 2003).

At the request of the NYSDEC, a Remedial Design Work Plan (RDWP; Earth Tech, November 2003) was prepared that provided a detailed description and design for the proposed DPE system recommended in the SICR. A discussion of DPE system construction, startup, and O&M activities during approximately the

first year of operation (May 14, 2004 through July 19, 2005) is provided in the first Remedial Action Engineering Report (RAER; May 14, 2004 through July 19, 2005; Earth Tech, November 2005).

1.2.7 Injection Pilot Tests

Beginning on July 28, 2010 and concluding on October 29, 2010, de maximis, Inc., on behalf of Scott and with NYSDEC approval, initiated a chemical oxidation pilot test (de maximis, July 2010). The test consisted of injection of sodium persulfate with chelated iron activation at 10 injection points located within the area of the >100 micrograms per liter (µg/L) trichloroethene (TCE) plume as defined in 2010. A second series of injections was performed between June and October 2011; refer to **Figure 3** for injection locations. A review of groundwater data at the source area monitoring wells following the pilot test indicated a spike in TCE concentrations, possibly due to mobilization of product from the vadose zone.

On November 6, 2014, AECOM submitted a 2014 Injection Pilot Test Work Plan (AECOM, November 2014) to NYSDEC detailing a pilot test injection program to be performed with the injectate Anaerobic BioChem and zero valent iron (ZVI; ABC+®). Following NYSDEC approval, the pilot test was performed in November 2014 in a 1,200 square foot area centered within source wells MW-4, MW 8R, and MW-16S; refer to **Figure 3** for injection locations. Each of the 8 injection points received approximately 480 gallons of ABC+®, mixed at approximately 16 percent by weight solution, and divided up between five depth intervals at 10, 13, 16, 19 and 22 ft bgs. Following the November 2014 injection of ABC+®, two rounds of groundwater samples were collected and analyzed for VOCs. The groundwater VOC data collected in January 2015 and April 2015 showed significant decreases in TCE concentrations in the area of the injections, with corresponding increases in cis-1,2-dichlorethene (cis-1,2-DCE), chloroethane, and vinyl chloride (VC) concentrations.

On April 28, 2015, AECOM submitted the Addendum to the 2014 Injection Pilot Test Work Plan (AECOM, April 2015) to NYSDEC outlining a second phase of injections to be performed with the injectate ABC+®. Following NYSDEC approval, the injection program was performed between April and May 2015 in an approximate 3,600 square foot area centered around monitoring wells MW-4, MW-8R, MW-13S/D, and MW-16S/D, and DPE wells DPE-3, DPE-4, DPE-5, DPE-7, and DPE-8; refer to **Figure 3** for injection locations. A total of 21 injection points were completed with approximately 410 gallons of 16 percent by weight ABC+® injected at each location and divided up between five depth intervals at 10, 13, 16, 19 and 22 ft bgs. Note that this area was expanded vertically and horizontally from the first phase of injections as well as overlapped (offset) the first phase of injections. Per the table in presented in Section 3.4, TCE concentrations showed a decreasing trend following these injection events.

During the week of November 26, 2018, AECOM completed a five-day supplemental injection program per the 2018 Injection Work Plan (AECOM, October 2018) submitted to NYSDEC on October 31, 2018. ABC-Ole[®] with ZVI, a mixture of Anaerobic Biochem, ZVI, and emulsified fatty acids, was selected to remediate impacted groundwater in an approximate 4,500 square foot area within the 100 μg/L total VOC plume, which was based on October 2018 groundwater sample data. This area encompassed monitoring wells MW-4, MW-8R, MW-16S/D and MW-13S/D and dual phase extraction wells DPE-3, DPE-4, DPE-5, DPE-7, and DPE-8. The injectate ABC-Ole[®] with ZVI, mixed as an approximately 15 percent by weight solution, was injected at 20 locations (**Figure 4**). Sixteen injection points received approximately 400 gallons of solution each, with the four locations adjacent to monitoring well cluster MW-16 receiving approximately 500 gallons of injectate each. The injectate was distributed at depth intervals of 11, 14, 17, and 20 ft bgs and targeted the shallow water bearing unit.

To monitor the effectiveness of the November 2018 supplemental injections over time, monitored natural attenuation (MNA) parameters were collected from five monitoring wells (MW-4, MW-8R, MW-13S, MW-16S, and MW-16D) prior to the injection. MNA samples were also collected from the same five wells during the April 2019, July 2019, October 2019, April 2020, April 2021, and April 2022 sampling events; note, background monitoring well MW-11 was included in the April 2021, October 2021, and April 2022 sampling events.

On September 15 and 16, 2021, AECOM completed bioaugmentation injections using microbial culture KB-1® Plus and the KB-1® Primer supplied by SiREM (refer to **Figure 5** for injection locations). Just prior

to the bioaugmentation injections, the GWCT and DPE remedial systems were taken off-line. The bioaugmentation solution was injected in to the subsurface via direct push technology injections, targeting either 3 or 4 discrete intervals ranging between 5 and 20 ft bgs depending on the location. Each injection point around locations MW-8R, DPE-4, and DPE-8 received approximately 200 gallons of KB-1[®] Plus/Primer (i.e., injectate) which was distributed at 5-foot depth intervals (5, 10, 15, and 20 ft bgs), targeting either the shallow or shallow and deep overburden groundwater zones. Each injection point around locations MW-16S and DPE-7 received approximately 150 gallons of injectate and was distributed at three depth intervals (8, 13, and 18 ft bgs), targeting the shallow overburden groundwater zone.

The KB-1[®] Primer came in pouches suitable for mixing with approximately 250 gallons of potable water. An appropriate amount of the KB-1[®] Primer was weighed with a scale provided by SiREM and mixed with the amount of water required for each injection location (i.e., 60% of a KB-1[®] Primer pouch for 150 gallons or 80% of a pouch for 200 gallons). The KB-1[®] Primer water mix was ready to inject when fully dissolved and upon pH and oxygen reduction potential (ORP) readings meeting the specifications designated by SiREM (i.e., 6 to 8.3 standard units for pH, and < -75 milliVolts for ORP).

Injection flow rates for the injections ranged from approximately 3 to 12.5 gallons per minute. The target volume of injections for each discrete interval regardless of location was 50 gallons (to minimize short circuiting or breakthrough). This is the minimum amount of KB-1® Primer water recommended by SiREM to support the KB-1® Plus. At each interval, approximately half the injection amount of KB-1® Primer water (25 gallons) was injected. A target amount of KB-1® Plus (approximately 0.6 liters) was then injected using nitrogen gas to push the anaerobic microbial injectate into the targeted interval. The remaining half of the primer water was subsequently injected. Injections were conducted using a bottom-up approach, starting at the lowest designated interval, and raising the rods up the next interval following completion of the lower interval injection.

On October 4, 2021, two weeks prior to the fourth quarter 2021 (October 2021) groundwater sampling event, the GWCT was brought back on-line. On November 23, 2021, approximately 40 days following the bioaugmentation injection event, AECOM and Matrix performed O&M activities on the DPE system (including winterization activities) and brought DPE-1, DPE-2, and DPE-5 back on-line. Note DPE-1, DPE-2, and DPE-5 are located up/side-gradient of the regional groundwater flow and outside the bioaugmentation injection area. Contradictory to the work plan, during the winter months, DPE-1, DPE-2, and DPE-5 were not cycled, but remained on-line to keep the DPE remedial system components from freezing if the system were to be kept totally off-line.

Results of the April 2022 MNA sample analyses are discussed further in Section 3.6 of this report.

1.3 Remedial Action Objectives

Cleanup criteria for Site soil and groundwater are based on the RAOs established in the ROD (NYSDEC, November 1994). **Table 1** presents the Site-specific cleanup criteria for the contaminants of concern. The RAOs for the combined soil and groundwater remediation system include:

- 1. Maintain hydraulic control of shallow groundwater and eliminate potential off-Site migration of VOCs along the western property boundary.
- Lower the groundwater table within the impacted source area to expose the aquifer matrix and subsequently extract soil vapors containing VOCs using enhanced vacuum extraction. By lowering the water table surface, the DPE system induces groundwater flow toward the system extraction wells, thereby allowing the applied vacuum to remove VOCs more effectively in the exposed aquifer matrix.
- 3. Reduce the mass of VOCs in the subsurface and remediate Site soil and groundwater to meet RAOs.
- 4. Obtain No Further Action status for the Site.

2. Current Remediation System Configuration and Operation and Maintenance Summary

This section provides a description of the current remediation system configuration and a summary of combined DPE remediation system O&M activities performed during the reporting period (April 9, 2021 through April 8, 2022).

2.1 Current Remediation System Description and Configuration

As described in Section 1.2.4.2 of this report, the initial groundwater remediation system installed at the Site consisted of a 200-foot long GWCT and an associated groundwater treatment system located to the west of Plant 2. The GWCT remediation system was combined to operate with a new DPE remediation system which was installed at the Site between February and May 2004. The combined remediation systems, known collectively as the combined DPE remediation system, began operation on May 14, 2004.

Figure 2 depicts the combined DPE remediation system including DPE system recovery wells, monitoring wells and nested piezometers, DPE system piping locations, the DPE system trailer, and the pre-existing GWCT and GWTB. The DPE system consists of eight recovery wells. **Figure 6** presents a typical DPE recovery well construction diagram. Three additional monitoring wells (MW 8R, MW-11 and MW-12) and four pairs of nested piezometers (MW-13S/D through MW-16S/D) were also installed as part of DPE system construction activities and monitoring activities completed in 2004 and 2005. A typical nested piezometer construction diagram is shown in **Figure 7**. Monitoring well, nested piezometer, injection well and DPE system recovery well construction details are provided in **Table 2**. Section 2 of the first RAER provides a detailed summary of recovery well and monitoring well installation, subsequent DPE system installation, and DPE system equipment specifications (Earth Tech, November 2005). **Figure 8** presents the process and instrumentation diagram for the combined DPE remediation system. Note that there are no buildings located over the groundwater plume. Any VOC vapors are collected through the DPE system and monitored through a quarterly sampling program; refer to Section 4.1.1.

2.2 Combined DPE Remediation System Operation Summary

The DPE and GWCT remedial system was taken off-line on September 14, 2021, just prior to bioaugmentation injection. Just prior to the fourth quarter 2021 (October 2021) groundwater sampling event, the GWCT was brought back on-line. On November 23, 2021, approximately 40 days following the bioaugmentation injection event, AECOM and Matrix brought DPE-1, DPE-2, and DPE-5 back on-line. DPE-3, DPE-4, DPE-6, DPE-7, and DPE-8 are off-line as of the end of the reporting period.

During the current reporting period from April 9, 2021 through April 8, 2022, the total volume of groundwater treated and discharged to the sanitary sewer via the AS unit was approximately 592,790 gallons, at a combined average flow rate of 1.13 gallons per minute (gpm). The treated groundwater was discharged to the BSA via the local sanitary sewer system under permit No. 21-10-E4054.

2.3 Routine DPE System Maintenance and Troubleshooting

The following subsections describe routine remedial system maintenance and troubleshooting as well as associated waste disposal that occurred during the current reporting period.

2.3.1 Routine System Maintenance

During routine weekly Site visits, AECOM personnel recorded system operating parameters, and inspected and cleaned the various system components and piping as needed. Minor system repairs were also made as necessary throughout the reporting period. The O&M data collected during the Site visits was recorded using the O&M checklist presented in **Appendix A**. Data collected on these checklists are used to track the performance of the system.

2.3.2 System Troubleshooting and O&M

Sporadic system shutdowns and delays that required troubleshooting and maintenance occurred during the current reporting period. These activities, along with O&M activities, are summarized below. (Note: This information is based on a Scott Figgie LLC fiscal year, which begins on October 1st.)

Third Quarter 2021 (following April 2021 sampling event through end of July 2021 sampling event) combined DPE remedial system O&M:

- On April 28, 2021, AECOM completed the Heritage Environmental Services, LLC (HES) waste stream recertification.
- On May 13, 2021, AECOM subcontractor Matrix changed the DPE liquid ring pump (LRP) oil and replaced the LRP and knockout tank filters.

Fourth Quarter 2021 (following July 2021 sampling event through end of October 2021 sampling event) combined DPE remedial system O&M:

- AECOM assisted Matrix troubleshooting the DPE system on July 21, 2021; the knockout tank
 transfer pump was repaired, oil was added to the LRP, DPE wells were optimized, and totalizers
 were disassembled, cleaned, and reassembled (as a preventative measure). The DPE system was
 successfully restarted.
- AECOM performed the bioaugmentation injection program with subcontractors Matrix and SiREM during the week of September 13, 2021.
- AECOM and Matrix dismantled, cleaned, and reassembled the remedial system air stripper on September 22, 2021 (the remedial systems were left off-line to accommodate the bioaugmentation injection).

First Quarter 2022 (following October 2021 sampling event through end of January 2022 sampling event) combined DPE remedial system O&M:

- On November 23, 2021, AECOM and Matrix restarted the DPE remediation system (i.e., DPE-1, DPE-2, and DPE-5) and performed O&M activities including: removed solids from the knockout tank and hold tank, added oil and greased the LRP, changed bag filters, cleaned totalizers, replaced sump pump in remediation building, and managed hazardous waste drum for future disposal.
- AECOM oversaw the hazardous waste pick up by HES on December 27, 2021.

Second Quarter 2022 (following January 2022 sampling event through end of April 2022 sampling event) combined DPE remedial system O&M:

- On January 19, 2022, AECOM, observed issues with the air stripper; fuses were blown. AECOM
 and Matrix replaced the blown fuses and cleaned the air stripper trays on January 20, 2022, and
 successfully restarted the remedial system.
- AECOM completed the annual recertification of the solids waste stream with HES on March 14, 2022.
- During the week of March 28, 2022, AECOM performed the annual remedial system O&M activity
 with Matrix. O&M activities included maintenance on the DPE LRP (including oil change),
 dismantling and cleaning the air stripper, removing sediment from the knockout tank and hold tank,
 and DPE well screen and conveyance piping scale abatement activity.

2.3.3 Waste Disposal

On December 27, 2021, HES transported and disposed one 55 gallon drum (136 pounds) containing sediment and miscellaneous debris from O&M activities. This hazardous material (F002 waste code) was

generated during O&M activities conducted at the Site between December 2020 and December 2021. (As indicated in Section 2.2, the DPE system was idle from September 14, 2021 until November 23, 2021.)

AECOM personnel supervised the loading of the drum at the Site prior to transportation to the Heritage Thermal Services, Inc. facility located in East Liverpool, Ohio. All hazardous waste manifests were signed by AECOM "on behalf of and as an agent of Scott Figgie LLC".

3. Groundwater Monitoring Summary

The following subsections provide a detailed description of groundwater monitoring activities conducted during the current reporting period (April 9, 2021 through April 8, 2022), a review of the most recent comprehensive groundwater monitoring event analytical results, and a comparison of those results to historical comprehensive groundwater monitoring event analytical data.

3.1 Description of Groundwater Monitoring Activities for the Reporting Period

The groundwater monitoring program associated with the original GWCT system was combined with the monitoring program developed for the new DPE system in May 2004. Monitoring wells sampled during this reporting period were in general accordance with Table 14 of the NYSDEC-approved sixteenth PRR (AECOM, June 2021). A total of four groundwater monitoring events were performed during the current reporting period (**Table 3**). These included three targeted quarterly monitoring events (July 2021, October 2021, and January 2022) and one comprehensive monitoring event (April 2022).

In July 2021, October 2021, and January 2022, quarterly sampling was performed, which targeted three perimeter monitoring wells (MW-2, MW-3, and MW-11) and six wells located within the TCE plume (MW-4, MW-8R, MW-13S, MW-13D, MW-16S, and MW-16D. In addition, DPE wells (DPE-1, DPE-2, DPE-3, DPE-4, DPE-5, DPE-6, DPE-7, and DPE-8) and the GWCT manhole were sampled during the quarterly events.

In April 2022, a comprehensive groundwater monitoring event was conducted that included all Site monitoring wells and nested piezometer pairs (14 total wells), all eight DPE wells, and the GWCT manhole. Discussions of the results and the associated laboratory reports for the July 2021, October 2021, and January 2022 groundwater sampling events were provided to the NYSDEC in quarterly monitoring summary reports (AECOM, August 2021; AECOM, December 2021; and AECOM, February 2022). A discussion of the groundwater analytical results for the comprehensive April 2022 sampling event is presented in Section 3.3 of this report.

3.2 April 2022 Groundwater Sampling, Elevations, and Groundwater Flow Direction

AECOM personnel collected groundwater samples for the latest comprehensive monitoring event between April 4 through 8, 2022 in accordance with the procedures outlined in the NYSDEC-approved RDWP. The monitoring wells sampled in April 2022 are listed in **Table 3**. Groundwater sampling logs generated during the April 2022 sampling event are provided in Appendix B. Groundwater samples were analyzed for VOCs by Eurofins Environment Testing Northeast, LLC located in Amherst, New York, using United States Environmental Protection Agency (USEPA) Analytical Procedures Manual SW-846, Method 8260C.

A complete round of groundwater levels was measured for all Site monitoring wells, piezometers, and the GWCT manhole. **Table 4** provides a summary of groundwater elevations measured on April 4, 2022. A historical summary of groundwater levels and corresponding elevations and hydrographs for each monitoring well and nested piezometer pair are provided in Appendix C. Monitoring wells MW-2, MW-3, MW-4, MW-8R, MW-9, and MW-11 are screened across both the shallow and deep water-bearing units. The nested piezometer pairs (MW-13S/D, MW-14S/D, MW-15S/D, and MW 16S/D) are discretely screened, with one piezometer screened in the shallow water-bearing unit ('S' designation) and one piezometer screened in the deep water-bearing unit ('D' designation). DPE wells DPE-1, DPE 3, DPE-5, DPE-6, and DPE-8 are screened in the shallow water-bearing unit, while DPE-2, DPE 4, and DPE-7 are screened in the deep water-bearing unit. The GWCT is installed in the deep water-bearing unit.

Two groundwater surface contour maps for April 2022 are provided. The average water levels calculated for the nested piezometer pairs and monitoring wells, in conjunction with DPE well water level data, were used to generate the groundwater surface contours presented in **Figure 9**. **Figure 10** illustrates the

groundwater surface contours using only monitoring well, deep piezometer, and deep DPE water level data.

Groundwater elevations measured at monitoring wells and piezometers in April 2022 ranged from 671.77 ft above mean sea level (AMSL) at MW-8R to 686.27 ft AMSL at MW-15S. The average groundwater surface elevation across the site was 0.90 feet higher when compared to the prior round of groundwater elevation measurements collected in January 2022. The increase in groundwater elevations may be attributable to seasonal variations. Based on these water level measurements, the groundwater surface beneath the Site continues to exhibit an inward radial pattern (i.e., cone of depression), and groundwater flows inward towards the operating DPE recovery wells and the GWCT. **Figure 9** and **Figure 10** show depressions in the water table surface centered on the DPE wells for shallow (average) overburden and along the GWCT for deep overburden. The historical groundwater flow direction at the Site before active groundwater remediation was initiated had been predominantly to the northwest. These figures indicate that the GWCT remediation system continues to induce groundwater flow reversal along the western property boundary. This groundwater flow reversal helps to provide sustained hydraulic capture of the on-Site groundwater.

3.3 April 2022 Groundwater Analytical Results

The April 2022 groundwater sampling event was the seventeenth comprehensive sampling event conducted at the Site following the installation of the DPE system in May 2004. VOCs detected in groundwater from monitoring wells during the April 2022 sampling event are presented in **Table 5**. The following table summarizes the VOCs detected, their respective concentration ranges, the number of detections, and the number of those detections that exceeded Site-specific groundwater RAOs or groundwater criteria presented in NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 (NYSDEC, June 1998, January 1999 errata sheet, April 2000 addendum, June 2004 addendum) protection for source of drinking water (groundwater) standards (i.e., water class GA); herein referred to as TOGS 1.1.1 groundwater standards.

Groundwater Quality Results - April 2022

VOCs Detected in Groundwater	Concentration Range (μg/L)	Number of Detections	RAO/TOGS 1.1.1 Exceedances		
Vinyl chloride*	1.4 – 76,000	12	8		
cis-1,2-Dichloroethene*	1.3 – 86,000	9	6		
Chloroethane*	1.0 – 130	9	6		
1,1-Dichloroethane*	0.52 – 190	9	4		
Toluene*	2.7 – 120	3	2		
Acetone	5.0 – 100	3	1		
1,2-Dichloroethane*	0.30 - 0.70	3	1		
Trichloroethene*	47	1	1		
Xylenes, total*	24	1	1		
2-Butanone (MEK)	3.7 – 5.0	2	0		
Benzene	0.51 – 1.1	2	1		

^{*} Site-specific Remedial Action Objective

Eleven VOCs were detected in groundwater at monitoring wells and piezometers during the April 2022 sampling event. Ten of the 11 VOCs detected exceeded either the Site-specific RAOs or the TOGS 1.1.1 criteria for groundwater at one or more monitoring wells. **Figure 11** through **Figure 19** illustrate April 2022 isoconcentration contours for 1,1-dichloroethane (1,1-DCA), cis-1,2-DCE, chloroethane, TCE, toluene,

xylenes (total), VC, and total VOCs (shallow and deep overburden), respectively. Note: concentration contours were not generated for 1,1,1-trichloroethane (1,1,1-TCA) or ethylbenzene as these compounds were not detected. These compounds are listed in the ROD as the Site-specific compounds for which RAOs were established (refer to **Table 1**).

As shown, the highest concentrations of VOCs were detected just west of the GWCT and in the former soil excavation area, in a suspected remnant source area located in the vicinity of monitoring wells and piezometers MW-8R, MW-15S, and MW-16S, and DPE wells DPE-5, DPE-7, and DPE-8. Cis-1,2-DCE, VC, chloroethane, 1,1-DCA and toluene exhibited the highest overall concentrations in Site groundwater. As has been observed historically, the shallow piezometers, which are screened in silts and clays, generally showed higher concentrations of the most frequently detected VOCs when compared to their deeper piezometer counterparts, which are screened in sands and gravels located immediately above bedrock.

3.4 Comparison of April 2022 Groundwater Analytical Data with Historical Groundwater Analytical Data

As previously described, quarterly groundwater quality data obtained during the reporting period, except for the April 2022 sampling event, was previously submitted to the NYSDEC in quarterly summary reports. Trend plots illustrating concentrations of TCE, cis-1,2-DCE, VC, 1,1,1-TCA, 1,1-DCA, and chloroethane over time are provided in **Appendix D**. Because concentrations of TCE were historically the highest detected of the contaminants of concern at the Site, a presentation of historical and current TCE concentrations in groundwater at Site monitoring wells and piezometers is provided in the table below.

TCE was reported above the Site-specific RAO at one well (MW-15S); note that well MW-15S is in the excavation fill area and was not targeted during the injection pilot test programs. Based on the decrease in concentration of TCE at these locations, as well as other locations with historical detections of TCE, the previous injections appear to be contributing to the ongoing degradation of TCE. This is most clearly demonstrated on the TCE trend plots in **Figures 20 through 23** for monitoring wells MW-4, MW-8R, MW-13S, and MW-16S.

Summary of Annual TCE Concentrations in Groundwater from January 2009 (pre-injection) through April 2022

	TCE Concentrations (μg/L)													
Well ID	Jan 2009	April 2010	April 2011	April 2012	April 2013	April 2014	April 2015	April 2016	April 2017	April 2018	April 2019	April 2020	April 2021	April 2022
MW-2	< 5	<25	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
MW-3	< 5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-4*	19,000	3,000	13,000	39,000	12,000	32,000	110	<100	<5	<20	2.1	<4	<4	<4
MW-6	< 5	<5	<1	<1	<1	<1	<1	<1	<1	NS	NS	NS	NS	NS
MW-8R	8,400	2,500	8,900	99,000	64,000	100,000	<2,000	<1,000	14	13	<40	<2	<10	<8
MW-9	< 5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-10	< 5	<5	<1	<1	<1	<1	<1	<1	<1	<1	NS	NS	NS	NS
MW-11	0.77	0.95	1.2	0.51	<1	<1	<2	<1	<1	<2	<1	<1	<1	<1
MW-12	NS	<5	<1	<1	<1	<1	<1	<5	<1	<4	NS	NS	NS	NS
MW-13S*	3,400	1,400	40,000	39,000	40,000	32,000	31,000	<100	0.26	<40	0.70	<1	0.77	<2
MW-13D*	< 5	< 5	22	62	53	30	40	<10	<1	<1	<1	<1	<1	<1
MW-14S	0.38	< 5	< 1	1.3	<1	<1	<1	<1	<1	NS	<1	<1	<1	<1
MW-14D	< 5	9.4	0.97	0.64J	0.99	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-15S	180	270	200	240	140	160	85	110	70	85	98	95	58	47
MW-15D	< 25	<5	<8	<10	<8	<20	<20	<10	<1	<5	<8	<2	<2	<2
MW-16S*	92,000	220,000	250,000	250,000	230,000	61,000	26,000	<4,000	86	<1,000	<1,000	<1	<1,000	<2,000
MW-16D*	52	12	22	42	57	<25	<20	<10	<1	<1	<2	<1	<1	<2

Notes:

J - Estimated concentration.

NS - Not sampled.

Concentrations (µg/L)

Wells with asterisks were targeted during the October 2010 and October 2011 sodium persulfate with chelated iron injections; delineated by the grey and black dashed/dotted vertical lines respectively.

Wells in bold were targeted during the November 2014 injection and September 2021 injection; delineated by the black dashed vertical line and double vertical line respectively.

Wells in bold and shaded in grey were targeted during the April 2015 and November 2018 injections; delineated by the grey and black dotted vertical lines, respectively.

The Bioaugmentation injection targeted the wells in bold and is delineated by the double vertical lines.

3.5 Groundwater Collection Trench and Dual-Phase Extraction Wells Groundwater Analytical Data

A grab sample was collected from the GWCT during each of the four quarters included in the reporting period; these data are summarized in **Table 6**. Note that GWCT VOC data are not available prior to July 24, 2015. Although the VOC concentrations in the GWCT are relatively low, the GWCT remediation system continues to induce groundwater flow reversal along the western property boundary. This groundwater flow reversal aids in providing sustained hydraulic capture of the on-Site groundwater and is illustrated in the groundwater surface contour maps presented in **Figure 9** and **Figure 10**.

As stated above, groundwater grab samples were collected from DPE wells and analyzed for VOCs. Analytical data are presented in **Table 7** and generally show decreasing trends of chlorinated VOCs in groundwater following the November 2014 injection pilot test at the DPE wells closest to the injections.

An electronic copy of the analytical laboratory data package for the April 2022 sampling event is provided in **Appendix E** on a compact disc (CD).

3.6 Monitored Natural Attenuation

As stated in Section 1.2.7, to monitor the effectiveness of the injections over time, MNA parameters were collected from MW-4, MW-8R, MW-11, MW-13S, MW-16S, and MW-16D. Results of the April 2022 MNA samples are summarized in **Table 8**. Per **Table 8**, all five wells sampled for MNA parameters (not including background monitoring well MW-11) show strong evidence for anerobic biodegradation of chlorinated organics to occur; background well MW-11, outside the contaminant plume, shows adequate evidence for anerobic biodegradation of chlorinated organics.

The use of the enhanced reductive dechlorination (ERD) amendments ABC+® and ABC-Ole® with ZVI were designed to provide needed nutrients, such as a soluble lactic acid carbon source, a phosphate buffer to control pH for optimum microbial growth, and ZVI which accelerates abiotic dechlorination of chlorinated ethenes and ethanes. In September of 2021, AECOM completed bioaugmentation injections using microbial culture KB-1® Plus and the KB-1® Primer. The microbial analyses indicates that the necessary concentrations of bacteria such as Dehalococcoides (Dhc) species producing the enzymes tceA Reductase and VC reductase, remain present in the subsurface. Stimulation of the native bacteria by the injection of ABC+® and extra nutrients where chlorinated solvents are present in Site groundwater as well as the completion of bioaugmentation in September 2021 have dramatically reduced the concentrations of the original parent chlorinated VOCs, TCE and 1,1,1-TCA, over time. The initial concentrations of known TCA degradation products (1,1-DCA and chloroethane), as well as of TCE degradation products (1,2-DCE isomers and VC), suggest that reductive dechlorination of the chlorinated solvents present in site groundwater as a result of the November 2018 ABC+® injection event is occurring. Induction of reducing conditions by the injection of ABC+® can accelerate the reductive dechlorination of parent chlorinated VOCs and increase the relative accumulation of degradation intermediates such as cis-1,2-DCE and VC before complete mineralization. As the naturally more aerobic aquifer conditions return after treatment using ERD, VC oxidizing bacteria should increase and complete the dechlorination process to ethene followed by complete mineralization.

3.7 Total Organic Carbon

Samples were collected for total organic carbon (TOC) analysis to monitor the concentration of organic carbon sources available for optimum microbial growth. Although TOC concentrations have decreased over time in the areas targeted during previous injections, the locations with the highest historical concentrations of contaminants of concern (MW-4, MW-8R, and MW-16S) still have TOC concentrations above 20 µg/L, which is the minimum TOC concentration required to maintain effective ERD. Refer to **Figure 24** for TOC Isoconcentration contours for April 2022.

3.8 Dechlorinating Bacteria Analysis

During the April 2022 groundwater sampling event, AECOM collected groundwater samples at MW-4 and MW-16S, and submitted the samples to SiREM in Knoxville, Tennessee for analysis for volatile fatty acids (VFA) (MW-4 and MW-16S) and Gene-Trac[®] analysis (MW-16S). The following sections summarize the VFA and Gene-Trac[®] analyses. An electronic copy of the analytical laboratory data package for the April 2022 sampling event is provided in **Appendix E** on CD.

3.8.1 Volatile Fatty Acids

In addition to a TOC concentration greater than 20 mg/L, the quantification of VFAs is useful to assess the form of TOC present and its availability to promote the reductive dechlorination process. VFAs are fermented by a variety of pathways to produce the hydrogen necessary for complete reductive dechlorination to occur. In general, VFAs should be in excess of 10 to 20 mg/L. Pre- and post-injection VFA data is summarized in **Table 9**; the associated laboratory data reports are included in **Appendix E**.

Six VFAs were analyzed for by SiREM during the pre-bioaugmentation injection in August 2021 and subsequent post-injection monitoring events in December 2021 and April 2022; the following compares the pre-bioaugmentation injection concentrations with the most recent post-bioaugmentation injection sampling event in performed in April 2022.

Lactate is a component of the ABC-Ole' that was most recently injected at the Site in November 2018. Lactate ferments to the VFAs acetate and propionate. Lactate can be used as a measure of the remaining unused reducing potential of the previously injected ABC-Ole'. For monitoring well MW-8R, lactate reduced from a low detected concentration of 1.2 mg/L in August 2021 down to the detection limit (<0.39 mg/L) in April 2021. This indicates the depletion of this VFA at this well. For monitoring well MW-16S, lactate increased from <0.39 mg/L to <7.8 mg/L between August 2021 and April 2022; however, the sample dilution factor increased from 50 to 1,000 so there likely is little lactate left in the vicinity of this well.

Acetate is fermented from lactate, ABC-Ole', and sugars. *Dehalobacter* (Dhb) can use acetate as a low energy source while Dhc cannot. Dhb is implicated in the biodegradation of chlorinated ethenes such as tetrachloroethene (PCE) and TCE to cis-1,2-DCE and in the biodegradation of the chlorinated ethane 1,1,1-TCA to 1,1-DCA and subsequently to chloroethane. As a result, the presence of acetate indicates that partial reductive dechlorination can occur. However, complete reductive dechlorination to ethene and ethane will not occur without the presence of other VFAs and Dhc. Acetate decreased in monitoring well MW-8R (70 mg/L to 37 mg/L) and increased in monitoring well MW-16S (495 mg/L to 532 mg/L).

Propionate is fermented from lactate, ABC-Ole', and alcohols. Propionate subsequently ferments to produce hydrogen and formate. Hydrogen is the preferred electron acceptor for reductive dechlorination because of the high energy yield. Dhc can only use hydrogen as an energy source. Slow fermentation of propionate results in efficient reductive dechlorination (less methanogenesis) and optimal Dhc growth. Propionate was not detected in MW-8R in August 2021 or April 2022. Propionate concentration decreased in monitoring well MW-16S from 12 mg/L in August 2021 to <6.2 mg/L in April 2022.

Formate is created from the fermentation of propionate. Formate is fermented to produce hydrogen and bicarbonate. Formate was not detected in monitoring wells MW-8R or MW-16S in August 2021 or April 2022.

Pyruvate is created from the fermentation of sugars. Pyruvate is subsequently fermented to propionate and acetate with some hydrogen production. Pyruvate was not detected in monitoring well MW-8R during the August 2021 or April 2022 sampling event. A low concentration of pyruvate was detected (0.71 mg/L) in monitoring well MW-16S in August 2021, but it was not detected (<0.69 mg/L) in April 2022.

Butyrate is created from the fermentation of ABC-Ole' and alcohols. Butyrate ferments to produce hydrogen and acetate. Slow fermentation of butyrate results in efficient reductive dechlorination (less methanogenesis) and optimal Dhc growth. Butyrate was not detected in monitoring well MW-8R in August 2021 or April 2022. Butyrate was detected at MW-16S in August 2021 (81 mg/L) and has decreased to 48 mg/L in April 2022.

Overall, the April 2022 VFA results for monitoring well MW-8R indicate that the remaining TOC in the vicinity of this well is insufficient to promote complete reductive dechlorination. While reduction to cis-1,2-DCE by Dhb may still be possible due to the presence of acetate, this process will be slow since hydrogen is the preferred energy source. No other VFAs were detected in this well. For monitoring well MW-16S, there was an increase in the concentration of one VFAs (acetate) between August 2021 and April 2022 and a detection of butyrate (48 mg/L) in April 2022. Butyrate produces hydrogen when it is fermented, which is essential for complete reductive dechlorination to occur. These results indicate that completed reductive dechlorination may still occur in the vicinity of this well if Dhc is present is sufficient quantity. A discussion of Dhc, Dhb, and reductase results is provided in the next subsection.

3.8.2 Gene-Trac[®]

Gene-Trac[®] Dhc is used to detect Dhc in a groundwater sample. The detection of Dhc is significant as Dhc contain the greatest number of reductive dehalogenase genes of any microbial group. Dhc is capable of the reductive dechlorination of PCE, TCE, cis-1,2-DCE, 1,1-dichloroethene, trans-1,2-dichloroethene, and VC. Pre- and post-injection Gene-Trac[®] data is summarized in **Table 10**; laboratory data reports are included in **Appendix E**.

Gene-Trac® microbials were analyzed by SiREM during the pre-bioaugmentation injection in August 2021 and subsequent post-injection monitoring events in December 2021 and April 2022; the following compares the pre-bioaugmentation injection concentrations with the most recent post-bioaugmentation injection sampling event in performed in April 2022.

The post-injection Gene-Trac[®] Dhc results increased slightly from 1 x 10^9 Dhc gene copies per liter to 5 x 10^9 Dhc gene copies per liter. Per the technical notes from SiREM regarding interpretation of data, when the density of Dhc gene copies per liter is 1 x 10^9 or higher, this concentration is generally associated with very high rates of dechlorination.

Gene-Trac® vcrA, bvcA, and vinyl chloride reductase tceA quantifies genes that code for reductase enzymes that dechlorinate chlorinated ethenes and other compounds. The vcrA, bvcA, and tceA genes play specific roles in reductive dechlorination. Specifically, the Gene-Trac® vcrA and bvcA test quantifies VC-reductase genes that produce enzymes that convert VC to ethene. The vcrA reductase gene is reported to be the most commonly identified VC reductase gene in the environment, whereas bvcA is generally less common but can predominate in more oxidizing groundwater and possibly where DCE is dominant. The Gene-Trac® tceA test quantifies the TCE reductase gene that produces an enzyme that primarily converts TCE to cis-1,2-DCE and VC.

The *vcrA* reductase gene was detected in monitoring well MW-16S at 1 x 10^9 gene copies per liter in the pre-injection sample and increased to 6 x 10^9 gene copies per liter in the post-injection sample collected. The *bvcA* reductase gene was detected in monitoring well MW-16S at 1 x 10^8 gene copies per liter in August 2021 and at 4 x 10^7 gene copies per liter in April 2022. The *tceA* reductase gene was detected in monitoring well MW-16S at 1 x 10^9 gene copies per liter in August 2021 and at 2 x 10^8 gene copies per liter in April

2022. Per the technical notes from SiREM, the potential for complete dechlorination is very high when Dhc, vcrA, bvcA, and tceA are present at greater than or equal to 1 x 10⁷ gene copies per liter. Additionally, VC stall is unlikely when vcrA is greater than 1 x 10⁷ gene copies per liter, and ethene is detectable. At monitoring well MW-16S, ethene was detected at 33,000 μ g/l and 59,000 μ g/l in August 2021 and April 2022, respectively.

Gene-Trac[®] Dhb is used to detect Dhb in a groundwater sample. Dhb is implicated in the biodegradation of PCE and TCE to cis-1,2-DCE. The detection of Dhb indicates that dechlorination activities attributed to Dhb may be active. Increasing concentrations of Dhb are indicative of increased potential for degradation. Dhb was detected at 5 x 10⁷ gene copies per liter in August 2021 and at 1 x 10⁷ gene copies per liter in April 2022.

In summary, Dhc, *vcrA*, *bvcA*, and *tceA* are present at monitoring well MW-16S at concentrations that continue to indicate a very high potential for complete dechlorination to occur. Additional time is needed to evaluate the overall impact of the bioaugmentation event in the vicinity of this well.

3.9 Dechlorinating Chemical Analysis

In addition to the dechlorinating bacteria and degradative enzyme results, the presence and distribution of TCE degradation products (cis-1,2-DCE and VC) and 1,1,1-TCA degradation products (1,1-DCA and chloroethane) provide supportive evidence that the attenuation of TCE and 1,1,1-TCA and their degradation products via reductive dechlorination continues to occur in-situ at the Site. The occurrence and concentrations of these degradation products are directly related to the historic distribution of TCE and 1,1,1-TCA in the subsurface. The degradation products of TCE and 1,1,1-TCA were detected at their highest concentrations within the suspected source area near MW-4, MW-8R, MW-13S, and MW-16S. A limited number of other VOCs were sporadically detected in groundwater at the Site, with the majority of these detections located in groundwater at MW-15S (note, MW-15S/D is located in the lime-stabilized excavation fill area and were not targeted during previous injection events because the pH of the groundwater in this area is too high to promote biological activity). The Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water (USEPA, September 1998) indicates that a pH value greater than 9 is outside the range for reductive dechlorination to occur.

4. Groundwater Remediation System Monitoring and VOC Mass Removal Summary

This section describes system performance monitoring and summarizes the mass of VOCs removed by the combined DPE remediation system during the current reporting period from April 2021 through April 2022.

4.1 System Monitoring Results

Air discharge and water discharge monitoring results are discussed in the following subsections.

4.1.1 Air Discharge Monitoring

Samples were obtained from the vapor effluent of the AS and LRP on a quarterly basis and analyzed by Eurofins Environment Testing Northeast, LLC, located in South Burlington, Vermont, using USEPA Compendium Method TO-15. Based on the analytical results for the vapor samples collected, the exhaust mass-loading rate was calculated and presented to the NYSDEC in the Site quarterly groundwater monitoring reports. The combined total of the exhaust mass-loading rates for the vapor discharges was compared to the NYSDEC guidance value of 0.5 pounds per hour (lb/hr) of VOCs. Vapor effluent monitoring results for the first three monitoring events (July 2021, October 2021, and January 2022) during the reporting period were previously submitted to NYSDEC, and no exceedance of the NYSDEC standard for VOC emissions occurred. Refer to **Table 12** for a summary of air effluent data (including April 2022 data).

AECOM collected a vapor effluent sample from the AS unit and the LRP for the final quarterly monitoring event of the reporting period on April 6, 2022. The vapor effluent analytical results for the reporting period are summarized in **Table 11**, and an electronic copy of the analytical laboratory data package is provided on the enclosed CD in Appendix E. During the April 2022 sampling event, three VOCs were detected in the AS unit effluent and seven VOCs were detected in the LRP effluent. The total VOC discharge from the combined DPE remedial system was 28.17 micrograms per cubic meter (μg/m³). Based on the effluent totals, the calculated VOC discharge-loading rate for the remediation system was less than 0.000013 lb/hr, which is well below the NYSDEC discharge quidance value of 0.5 lb/hr.

4.1.2 Water Discharge Monitoring

Following the sale of the Site to AVOX Systems Inc. in September 2004, Scott retained the responsibility for BSA EC/BPDES permit compliance sampling and reporting, for a period of time specified by contract. The current BSA EC/BPDES permit (No. 21-10-E4054) is effective between October 1, 2021 through September 30, 2024.

The permit requires quarterly sampling of treated groundwater discharge from the combined DPE groundwater remediation systems for a specific list of VOCs, total extractable hydrocarbons (TEH), total suspended solids (TSS), and pH. The quarterly discharge samples are analyzed by Eurofins Environment Testing Northeast, LLC, located in Amherst, New York. AECOM collected permit compliance samples from the AS unit treated effluent discharge sampling point in July 2021, October 2021, January 2022, and April 2022. Each quarter, AECOM tabulated the analytical data, converted the data to mass loading rates, compared the results to the permit requirements, and prepared a letter report for submittal to the BSA and NYSDEC. No exceedance of any permit discharge limit occurred during any of the four reporting periods.

On October 12, 2021 AECOM participated in the BSA EC/BPDES annual compliance inspection; per an email from BSA EC/BPDES dated October 13, 2021, no issues were identified, and the facility is in full compliance with the permit.

Samples collected by BSA on October 26, 2021 were also in compliance with all permit requirements per an electronic mail from BSA dated November 29, 2021.

4.2 Mass Removal Summary

The estimated VOC mass removed by the combined DPE system for both groundwater and soil vapor was calculated based on operational and analytical data collected between July 2021 and April 2022.

The mass removal via groundwater extraction by the remediation system was calculated using total influent VOC concentrations, collected quarterly, and AS unit totalizer readings. The aqueous phase calculations are presented in **Table 12**. As shown in the table, approximately 0.05 pounds of VOCs were removed via groundwater extraction by the combined DPE remediation system per data collected between July 2021 and April 2022.

In addition to the VOCs removed through the AS, the DPE system additionally collects vapor from the subsurface and volatilizes VOCs during the groundwater extraction process. Mass removal was calculated using LRP runtime measurements, the total average LRP effluent sample VOC concentration for the reporting period, and the actual LRP airflow rate based on the manufacturer's operational curve, converted to standard cubic feet per minute. These calculations are presented in **Table 13**; approximately 2.82 pounds of VOCs were removed via the vapor phase from the combined DPE remedial system. Therefore, including both mass removal through groundwater and vapor, a total of 2.87 pounds of VOCs are estimated to have been removed by the combined DPE remediation system during the current reporting period (year).

Combining the totals for the 17 reporting periods, the cumulative mass of VOCs removed by the combined DPE remediation system is estimated at 3,042 pounds since the startup of the system in its current configuration on May 14, 2004.

5. Conclusions and Recommendations

Based on results of the remediation system analytical and operational data collected during the reporting period, conclusions, upcoming Site-related activities, and a proposed system monitoring schedule are presented below.

5.1 Conclusions

- 1. The GWCT and DPE ran continuously except for minor repairs and O&M activities which required the systems to be temporarily taken offline as needed.
- 2. During the current reporting period from April 9, 2021 through April 8, 2022, the total groundwater treated and discharged to the sanitary sewer via the AS unit was an estimated 592,790 gallons, at a combined average flow rate of 1.13 GPM.
- 3. Approximately 2.87 pounds of VOCs were removed by the combined remediation system from April 6, 2021 through April 4, 2022. An estimated cumulative total of 3,042 pounds of VOCs has been removed since system startup on May 14, 2004.
- 4. The system discharges were in compliance with applicable requirements (i.e., BSA EC/BPDES permit effluent discharge limits for liquids, and the NYSDEC air emission standard for vapor of 0.5 lb/hr) throughout the reporting period.
- 5. Groundwater elevations measured at monitoring wells and piezometers in April 2022 ranged from 671.77 ft AMSL at MW-8R to 686.27 ft AMSL at MW-15S. The groundwater surface exhibits a cone of depression with groundwater flowing inward towards the active DPE wells and GWCT. The DPE wells and GWCT continue to induce groundwater flow reversal along the western property boundary, which serves to mitigate off-Site migration of VOCs in the shallow and deep overburden groundwater.
- The groundwater analytical data and groundwater elevation data indicate that the DPE system and GWCT continued to maintain hydraulic control of groundwater by capturing potential off-Site migration of VOCs along the western property boundary.
- During the April 2022 comprehensive groundwater sampling event, Site-specific VOCs 1,1,1 TCA
 and ethylbenzene were not detected in monitoring wells or piezometers; TCE was detected above its
 Site-specific RAO only at MW-15S.
- 8. Cis-1,2-DCE, VC, chloroethane, and 1,1-DCA exhibited the highest overall concentrations and were the most frequently detected VOCs in groundwater. For the April 2022 comprehensive groundwater sampling event, the highest concentrations of VOCs were detected just west of the GWCT and in the former source area soil excavation.
- 9. The presence and distribution of TCE degradation products (cis-1,2-DCE and VC) and 1,1,1 TCA degradation products (1,1-DCA and chloroethane), coupled with the Gene-Trac[®] results from April 2022, continue to provide supportive evidence for the attenuation of TCE and 1,1,1-TCA, and their degradation products, via in-situ reductive dechlorination and in situ chemical reduction.
- Locations with the highest historical concentrations of contaminants of concern (MW-4, MW-8R, and MW-16S) have TOC concentrations above 20 milligrams per liter (mg/L), the minimum TOC concentration required to maintain ERD. At MW-13S and MW-16D, TOC has fallen below 20 mg/L.

5.2 Recommendations

Based on information gathered during the current reporting period, the following recommendations are proposed for the Site:

1. Clean and/or replace the manifold for the DPE system that has become fouled with lime buildup, prior to the next comprehensive groundwater sampling event in April 2023.

- 2. Redevelop the DPE wells with acid, if needed, to remove excessive lime buildup prior to the next comprehensive groundwater sampling event in April 2023.
- 3. Flush the DPE conveyance piping with acid to remove excessive lime buildup prior to the next comprehensive groundwater sampling event in April 2023.
- 4. Continue to sample active DPE wells and the GWCT for VOCs.
- 5. Continue to perform O&M activities as listed in Table 14.
- 6. Perform three targeted quarterly groundwater sampling events and one comprehensive groundwater sampling event during the next reporting period.
- 7. Continue to monitor the performance of the September 2021 bioaugmentation injection program by performing annual MNA sampling at MW-4, MW-8R, MW-11, MW-13S, MW-16S, and MW 16D.
- 8. Assess in situ bioaugmentation using microbial cultures to promote complete dechlorination to the end products chloroethane and ethene.
- 9. Finalize a Site Management Plan following direction from NYSDEC.

5.3 Proposed Monitoring and Compliance Sampling Schedule

The proposed schedule for groundwater sampling at the Site during the next reporting period is presented in **Table 15**. As shown in **Table 15**, three perimeter wells (MW-2, MW-3, and MW-11), six historic source area wells (MW-4, MW-8R, MW-13S, MW-13D, MW-16S, and MW-16D), eight DPE wells (DPE-1, DPE-2, DPE-3, DPE-4, DPE-5, DPE-6, DPE-7, and DPE-8), and the GWCT will be sampled during the next three targeted quarterly events (July 2022, October 2022, and January 2023) for the next reporting period. The comprehensive groundwater monitoring event scheduled for April 2023 will include all 14 Site monitoring wells and nested piezometers, the DPE wells (DPE-1, DPE-2, DPE-3, DPE-4, DPE-5, DPE-6, DPE-7, and DPE-8), and the GWCT.

Prior to each collection of groundwater samples, a complete round of water level measurements will be conducted. Groundwater samples will be analyzed for VOCs using USEPA SW-846 Method 8260C. Quality assurance/quality control samples will include equipment blanks, trip blanks, and blind duplicate samples. Laboratory batch quality control will be included with the completed data package.

If the DPE system remains in operation, quarterly air samples from the AS unit and LRP vapor effluent sampling ports will be collected to ensure compliance with the NYSDEC exhaust mass-loading rate guidance of 0.5 lb/hr of VOCs. Quarterly vapor effluent air samples will be collected from the LRP when on-line to determine the mass of VOCs removed by the DPE system as a vapor. The samples will be analyzed for VOCs utilizing USEPA Method TO-15.

Quarterly aqueous samples from the discharge to the sanitary sewer will be collected as specified in the current BSA EC/BPDES discharge permit. If the AS unit is in operation, influent samples will be collected to determine the treatment efficiency of the AS unit. Effluent samples will be analyzed for VOCs, TEH, TSS, and pH as specified in the current permit. **Table 16** provides a summary of the proposed monitoring and compliance sampling activities during the next reporting period. In the event any effluent permit monitoring requirements change, notification of these changes will be given to the NYSDEC in a future quarterly groundwater monitoring summary report.

The next PRR (eighteenth comprehensive report since DPE system startup in May 2004) for the combined DPE remediation system will be prepared following the receipt of laboratory analytical results for the April 2023 comprehensive groundwater sampling event and will cover the period of April 2022 through April 2023.

6. Evaluate Remedy Performance, Effectiveness, and Protectiveness

6.1 Institutional Controls and Engineering Controls Certification

An IC/EC certification form was not distributed by NYSDEC for this reporting period; NYSDEC directed AECOM to update the June 5, 2020 IC/EC certification form for the current reporting period. AECOM verified that the institutional and engineering controls listed below are being implemented and are in compliance with the June 5, 2020 IC/EC certification form.

Institutional controls include:

- 1. Monitoring Plan
- 2. O&M Plan

Engineering controls include:

- 1. Groundwater Treatment System
- 2. Vapor Mitigation
- 3. Cover System
- 4. Groundwater Containment

As a component of the PRR requirement, **Appendix F** includes the completed IC/EC certification.

7. References

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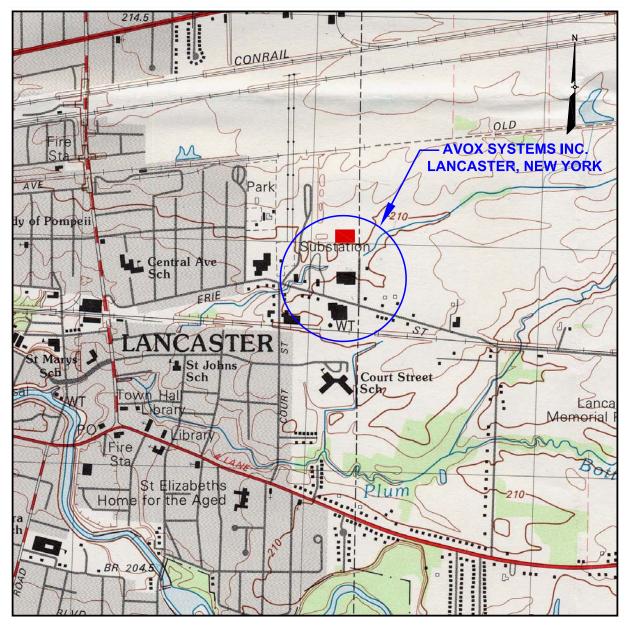
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USEPA. September 1998. "Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water", EPA/600/R-98/128, Office of Research and Development, Washington D.C.

Figures



SOURCE:

1982 GEOLOGIC SURVEY 7.5 X 15 MINUTE TOPOGRAPHIC QUADRANGLE LANCASTER, NEW YORK

LEGEND

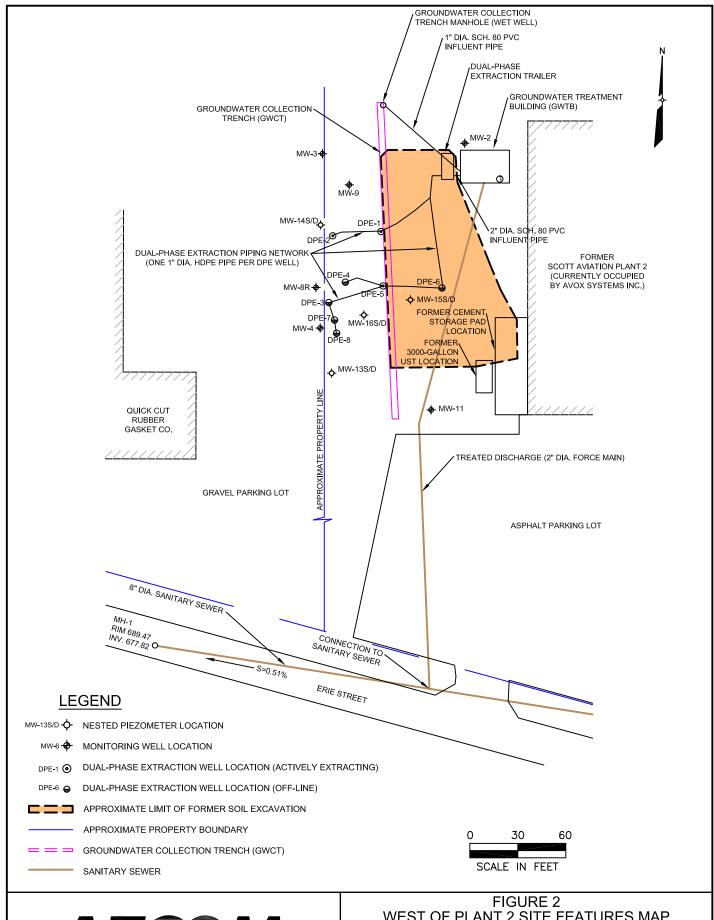
AVOX PLANT 3 ADDED AFTER PUBLICATION OF LANCASTER, NEW YORK TOPOGRAPHIC QUADRANGLE.





FIGURE 1 SITE LOCATION MAP

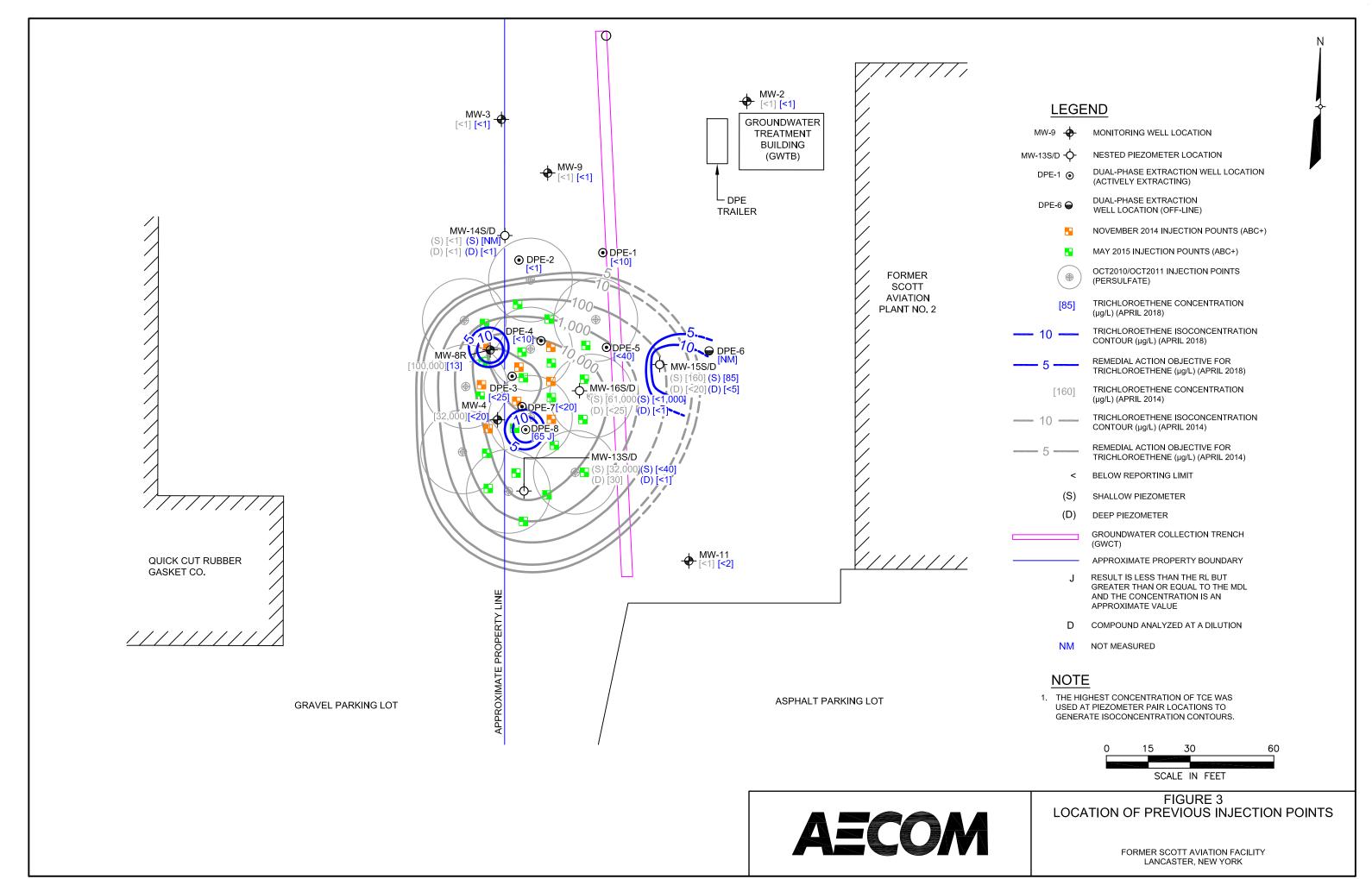
FORMER SCOTT AVIATION FACILITY LANCASTER, NEW YORK



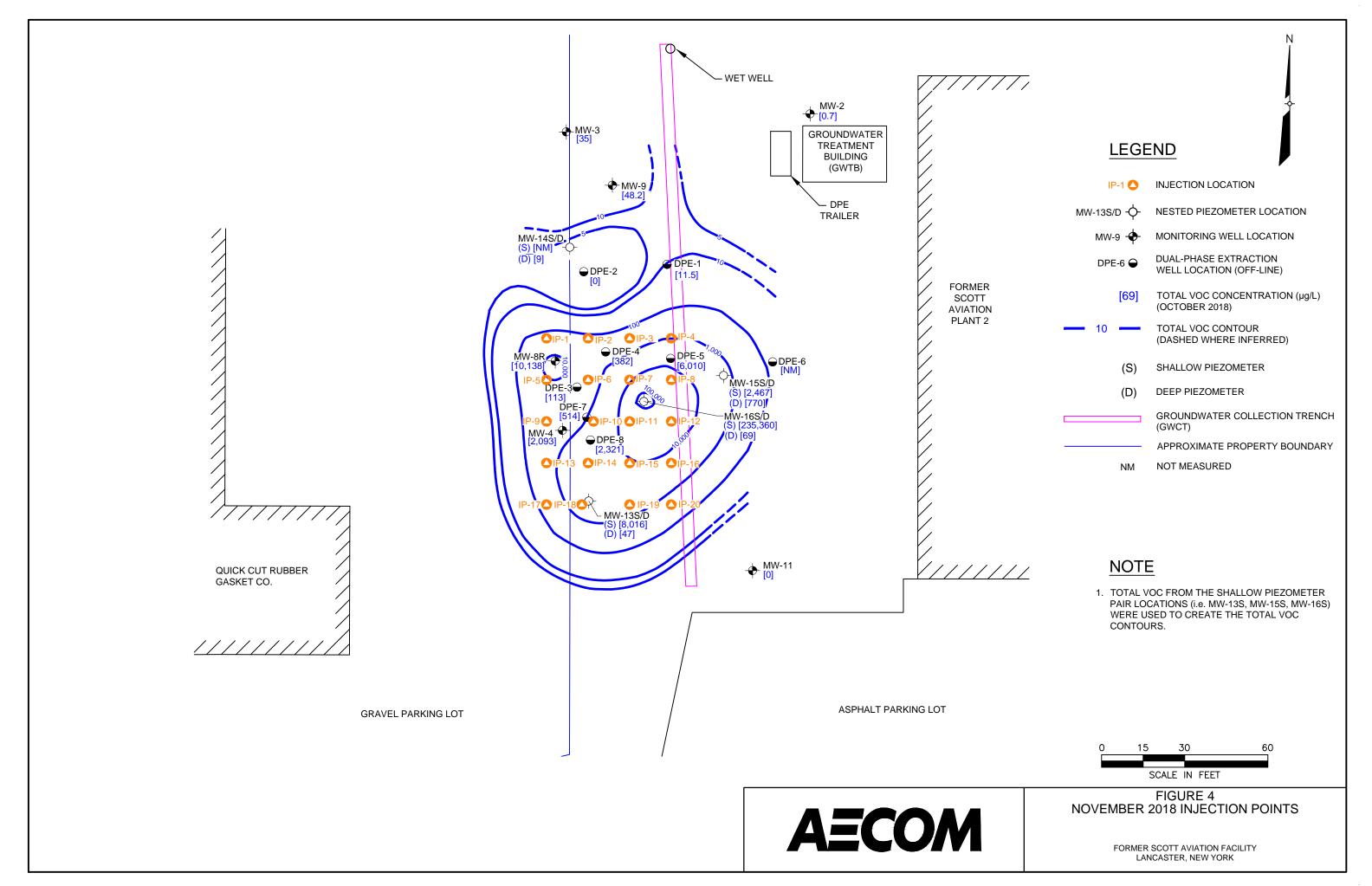


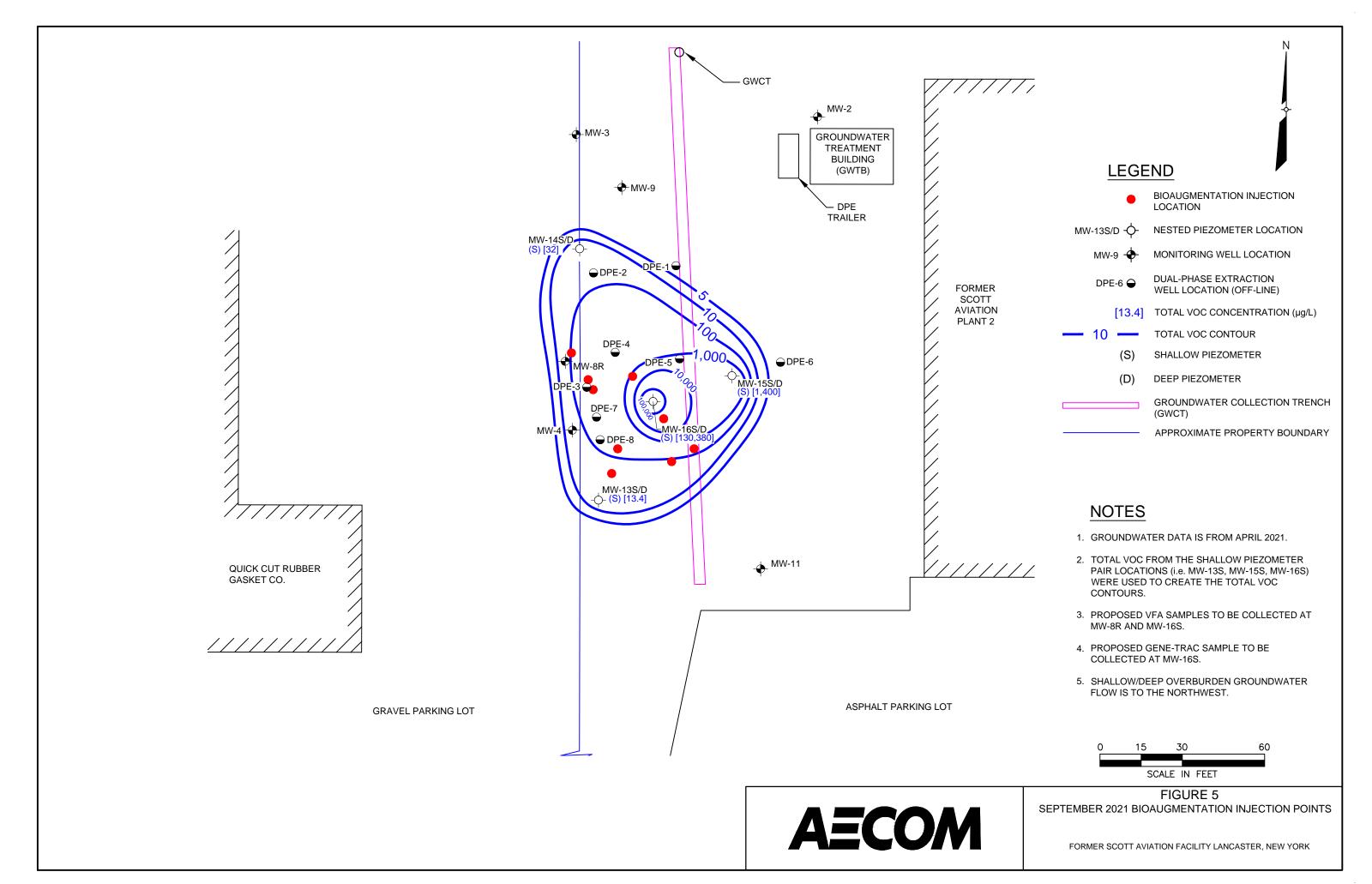
WEST OF PLANT 2 SITE FEATURES MAP

FORMER SCOTT AVIATION FACILITY LANCASTER, NEW YORK



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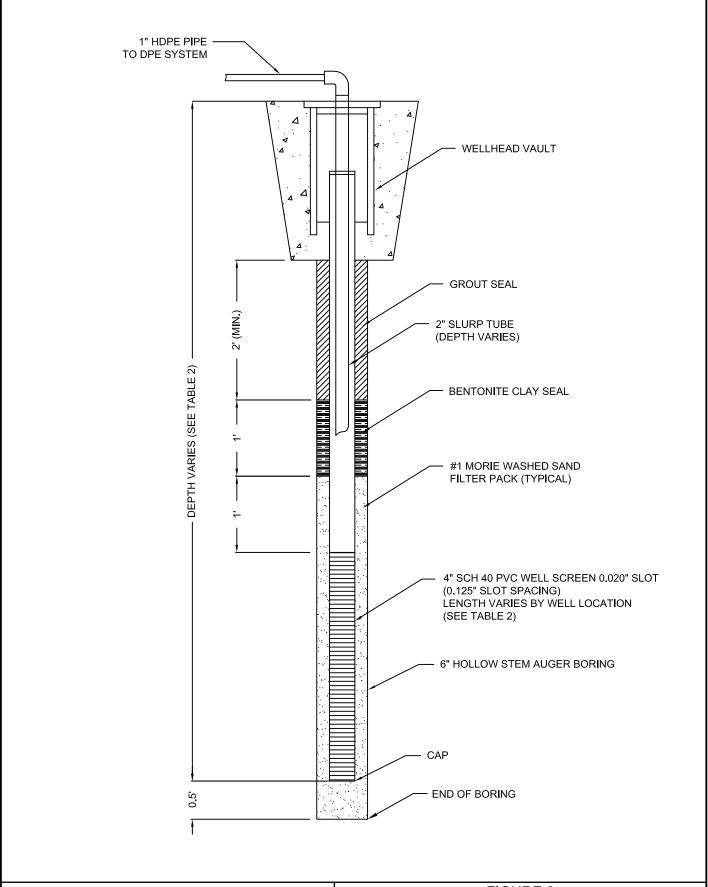




FIGURE 6
TYPICAL DUAL PHASE EXTRACTION RECOVERY
WELL CONSTRUCTION DIAGRAM

FORMER SCOTT AVIATION FACILITY LANCASTER, NEW YORK

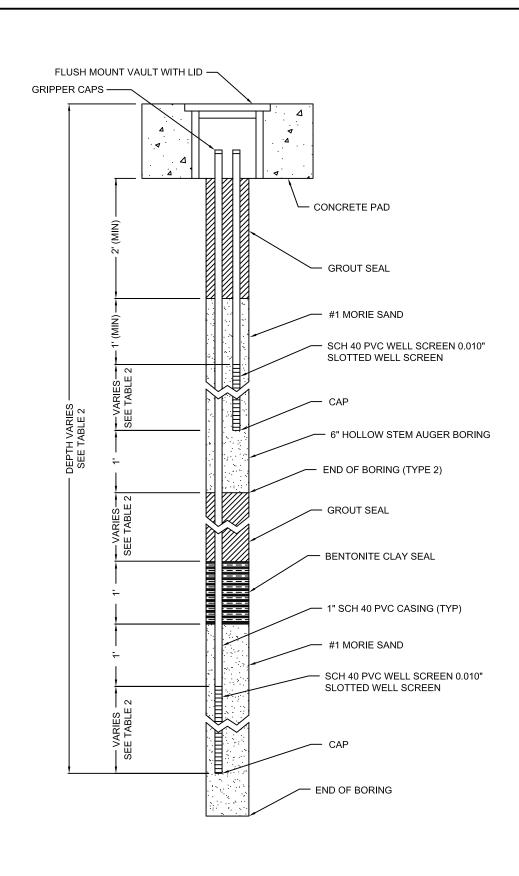
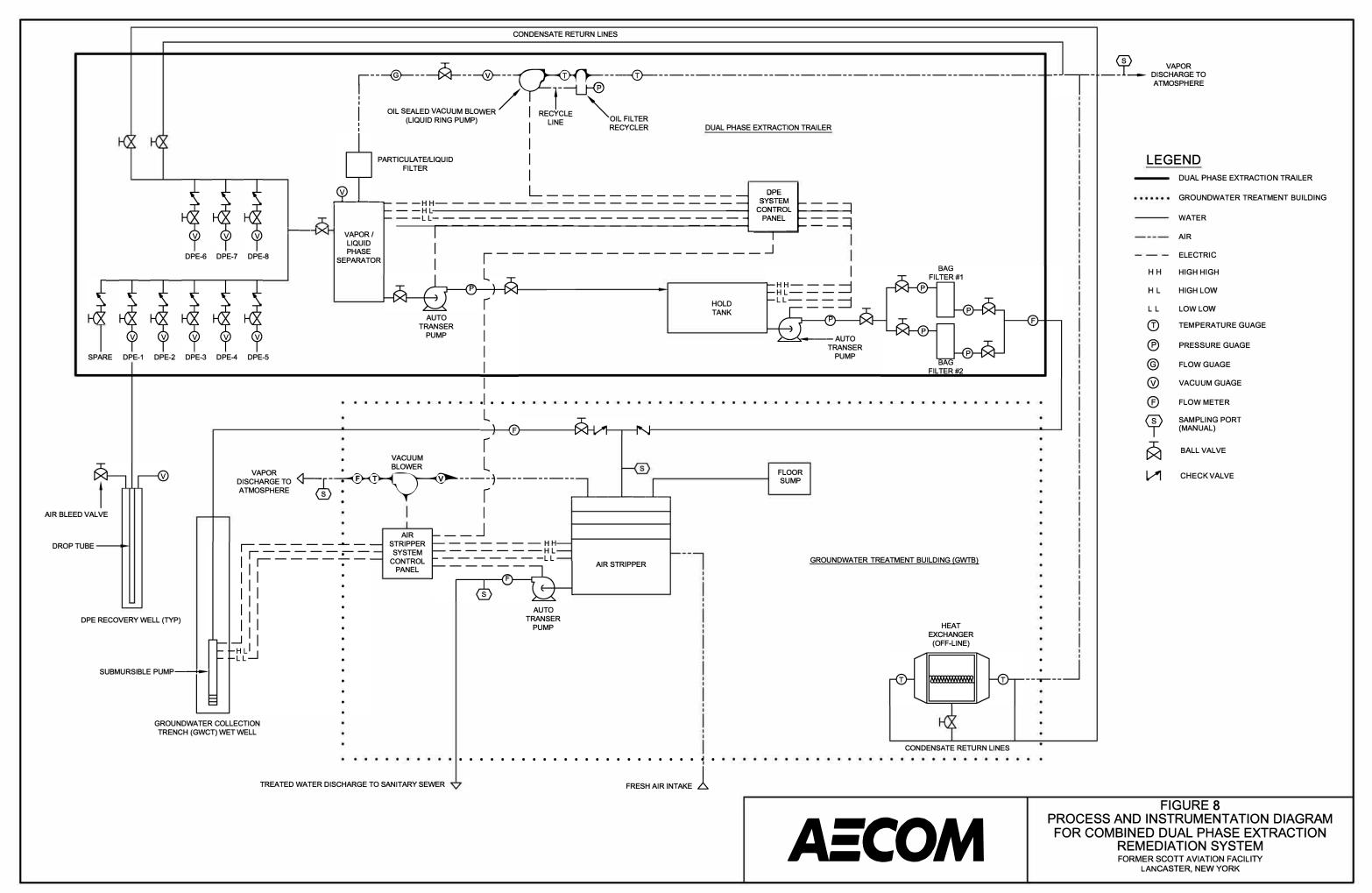




FIGURE 7 TYPICAL NESTED PIEZOMETER CONSTRUCTION DIAGRAM

FORMER SCOTT AVIATION FACILITY LANCASTER, NEW YORK



Groundwater Monitoring Water Level Data - April 4, 2022 Former Scott Aviation Facility NYSDEC Site Code No. 9-15-149 Lancaster, New York

Monitoring Point Identification	Top of Casing Elevation (feet AMSL)	Depth to Water (feet from TOC)	Ground Water Elevation (feet AMSL)
Monitoring Wells			
MW-2	687.10	5.25	681.85
MW-3	687.05	8.24	678.81
MW-4	686.50	7.76	678.74
MW-8R	686.29	14.52	671.77
MW-9	689.57	12.10	677.47
MVV-11	688.61	9.14	679.47
Nested Piezometers			
MW-13S	686.65	2.97	683.68
MW-13D	686.78	7.52	679.26
MW-14S	685.74	4.86	680.88
MW-14D	685.88	11.49	674.39
MW-15S	687.17	0.90	686.27
MW-15D	687.37	10.80	676.57
MW-16S	688.15	4.95	683.20
MW-16D	688.16	10.25	677.91
Remedial System			
GWCT Manhole (rim)	687.22	20.50	666.72

Notes:

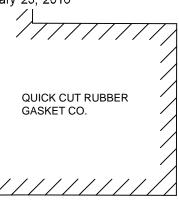
TOC - Top of Casing

AMSL - Above Mean Sea Level

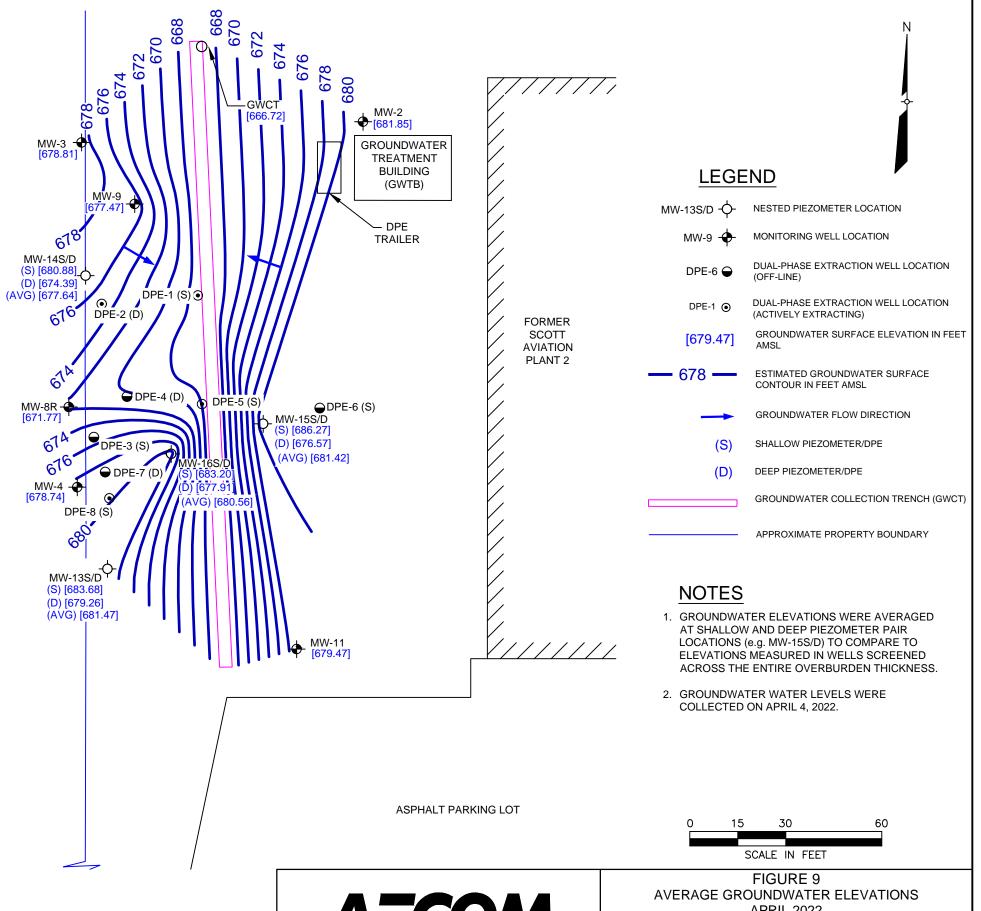
GWCT - Groundwater Collection Trench

GWCT is 200 feet long with a 0.01 foot/foot slope to the manhole

Locations re-surveyed on February 23, 2016



GRAVEL PARKING LOT



AECOM

APRIL 2022

FORMER SCOTT AVIATION FACILITY LANCASTER, NEW YORK

Groundwater Monitoring Water Level Data - April 4, 2022 Former Scott Aviation Facility NYSDEC Site Code No. 9-15-149 Lancaster, New York

Monitoring Point Identification	Top of Casing Elevation (feet AMSL)	Depth to Water (feet from TOC)	Ground Water Elevation (feet AMSL)
Monitoring Wells			
MW-2	687.10	5.25	681.85
MW-3	687.05	8.24	678.81
MW-4	686.50	7.76	678.74
MW-8R	686.29	14.52	671.77
MW-9	689.57	12.10	677.47
MW-11	688.61	9.14	679.47
Nested Piezometers			
MW-13S	686.65	2.97	683.68
MW-13D	686.78	7.52	679.26
MW-14S	685.74	4.86	680.88
MW-14D	685.88	11.49	674.39
MW-15S	687.17	0.90	686.27
MW-15D	687.37	10.80	676.57
MW-16S	688.15	4.95	683.20
MW-16D	688.16	10.25	677.91
Remedial System			
GWCT Manhole (rim)	687.22	20.50	666.72

Notes:

TOC - Top of Casing

AMSL - Above Mean Sea Level

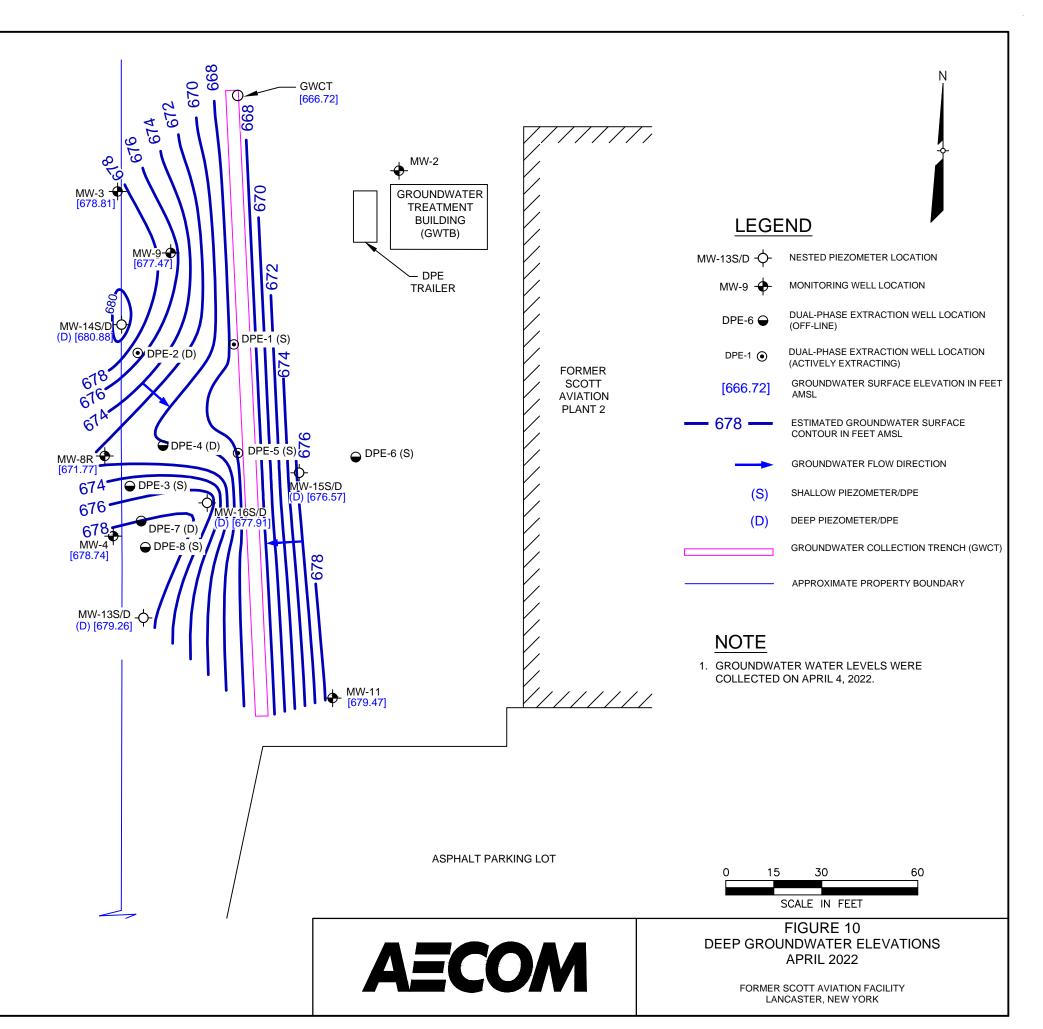
GWCT - Groundwater Collection Trench

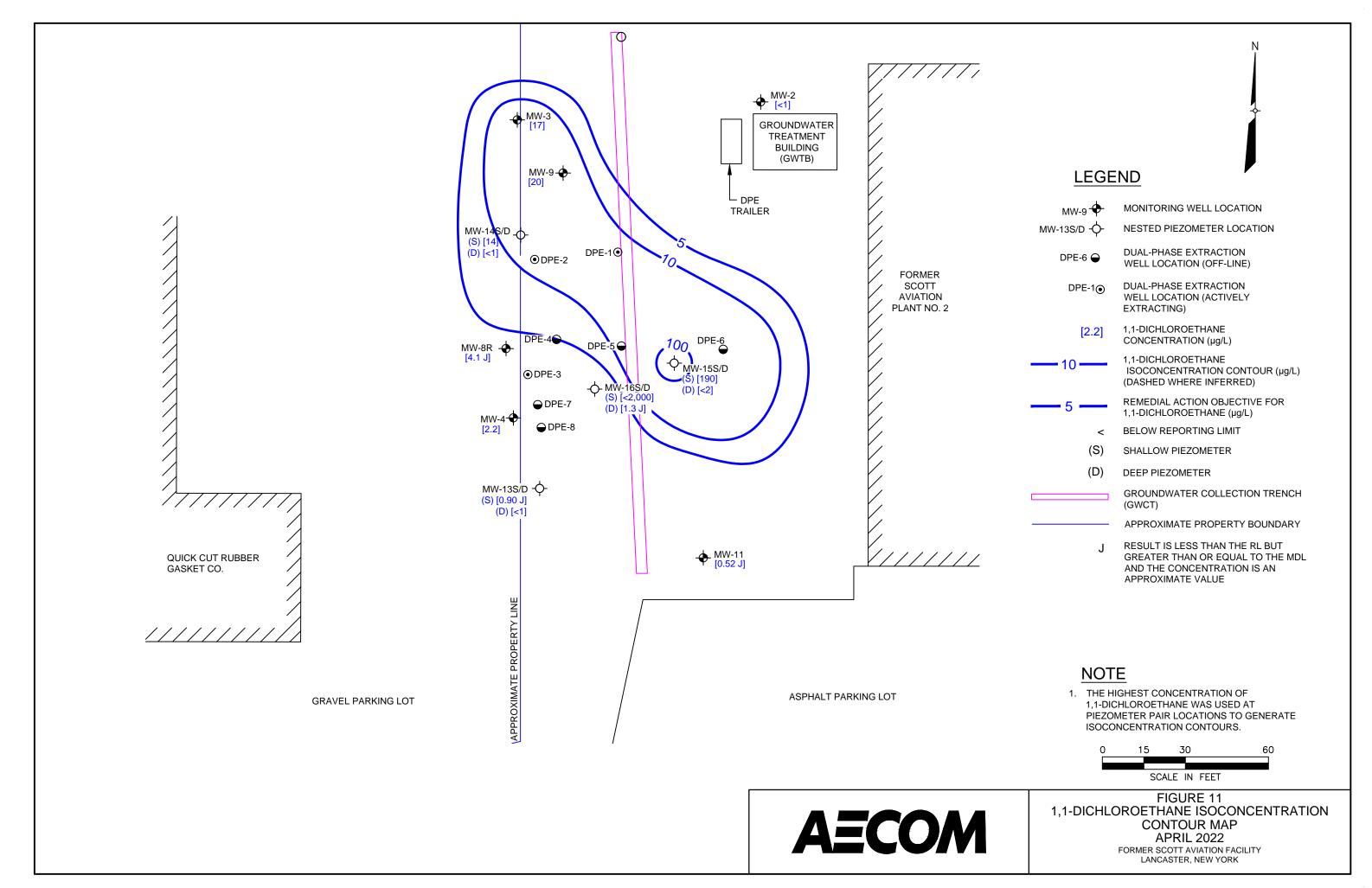
GWCT is 200 feet long with a 0.01 foot/foot slope to the manhole

Locations re-surveyed on February 23, 2016

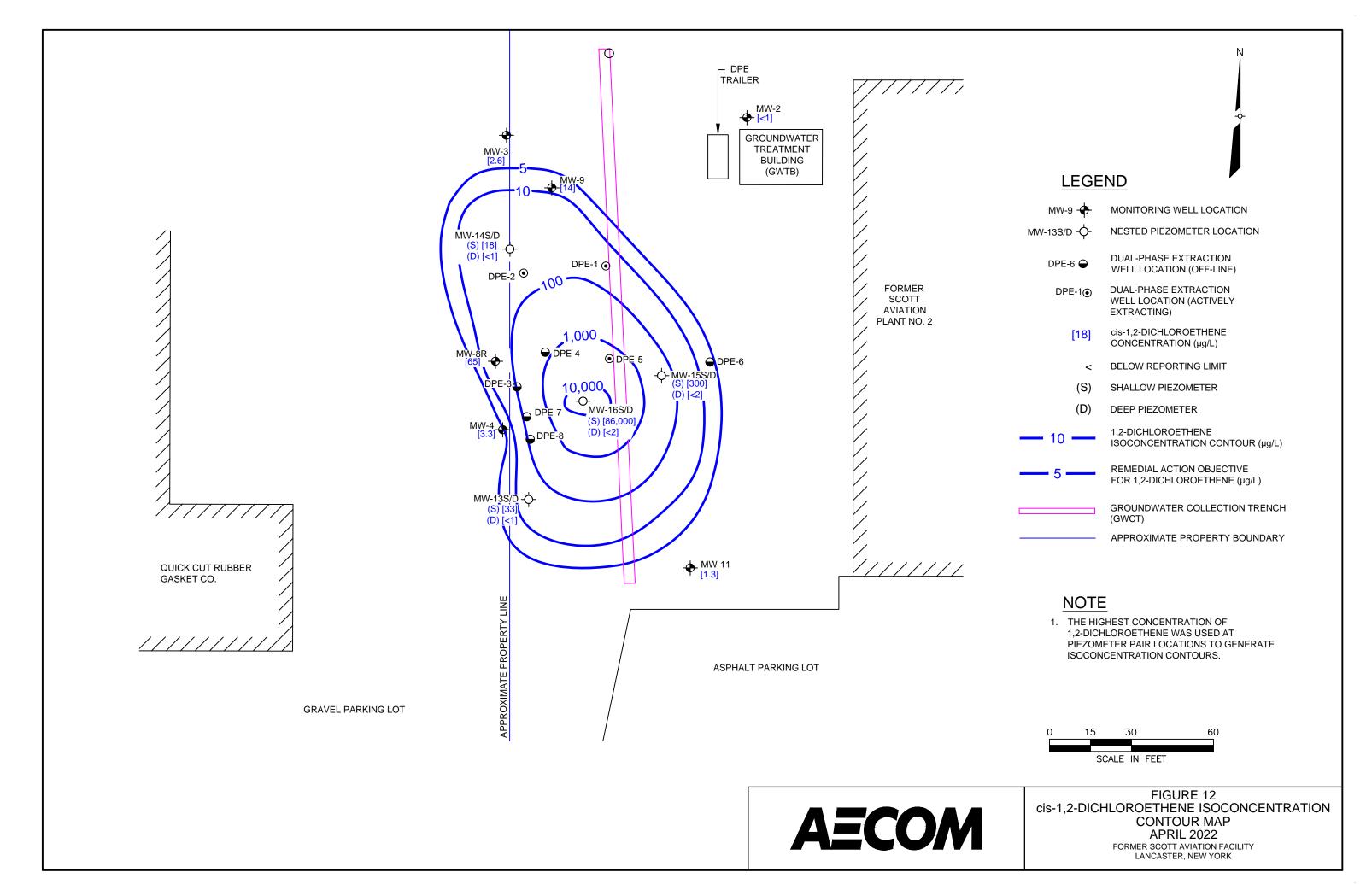
QUICK CUT RUBBER GASKET CO.

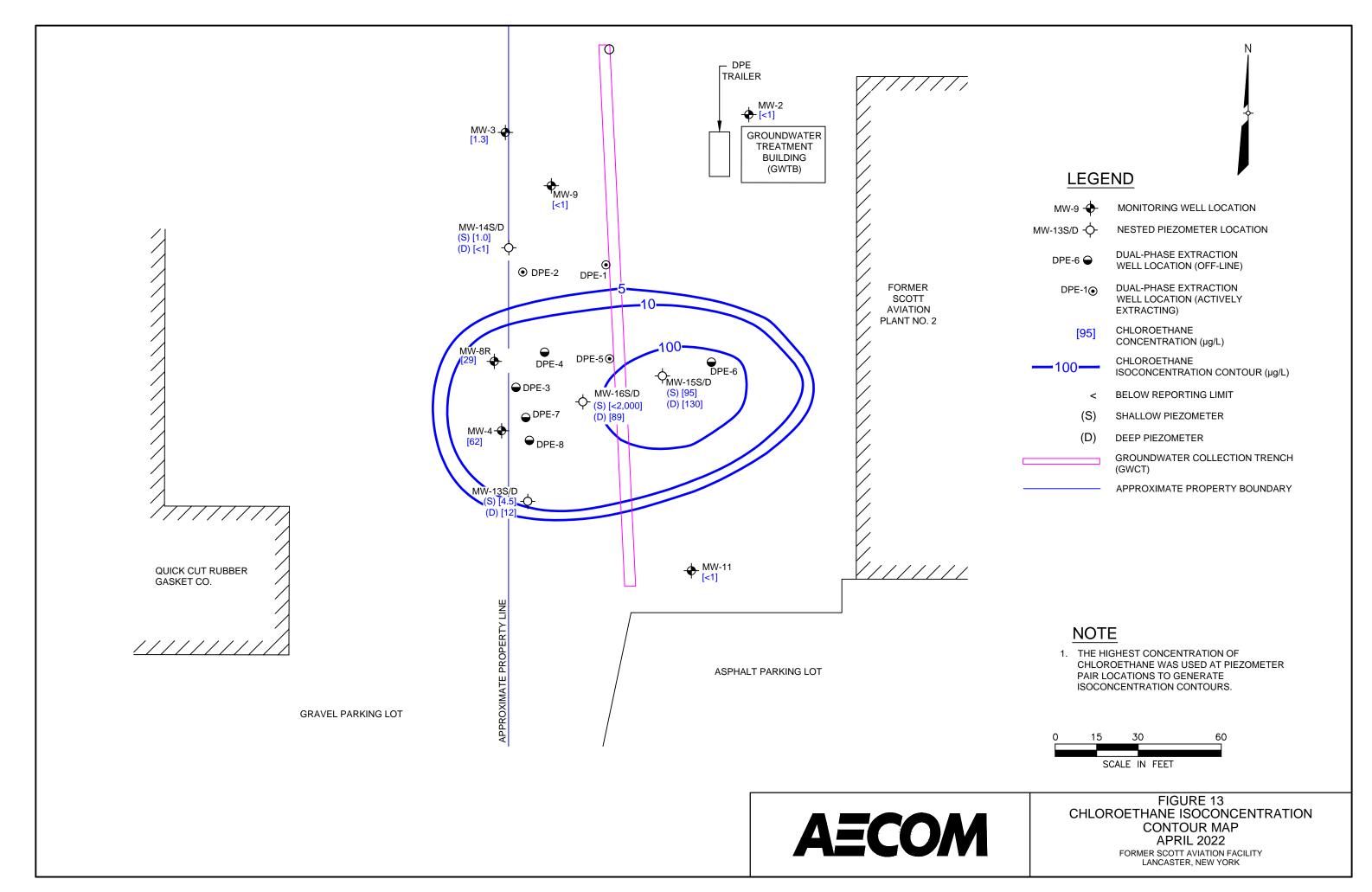
GRAVEL PARKING LOT

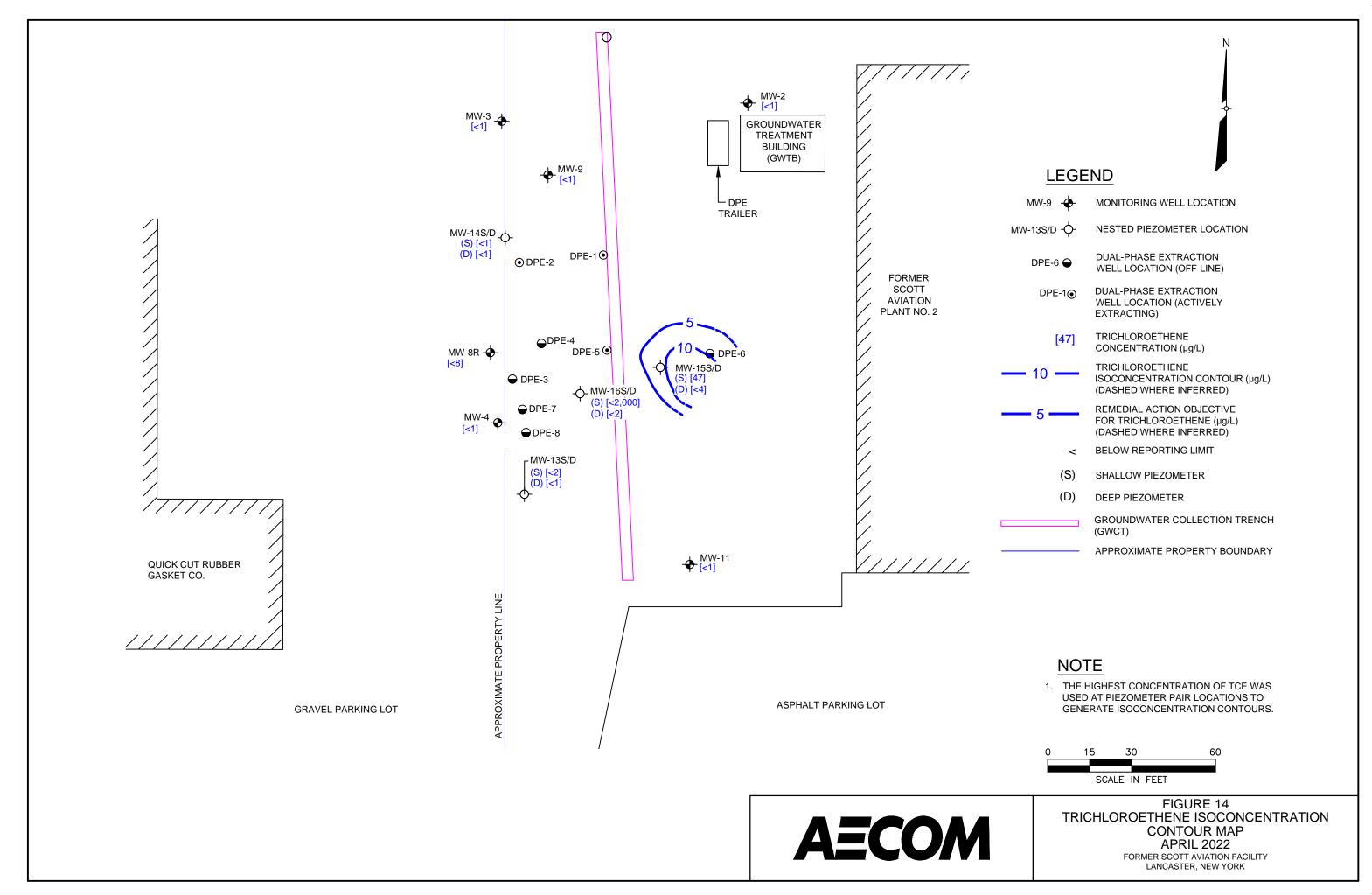


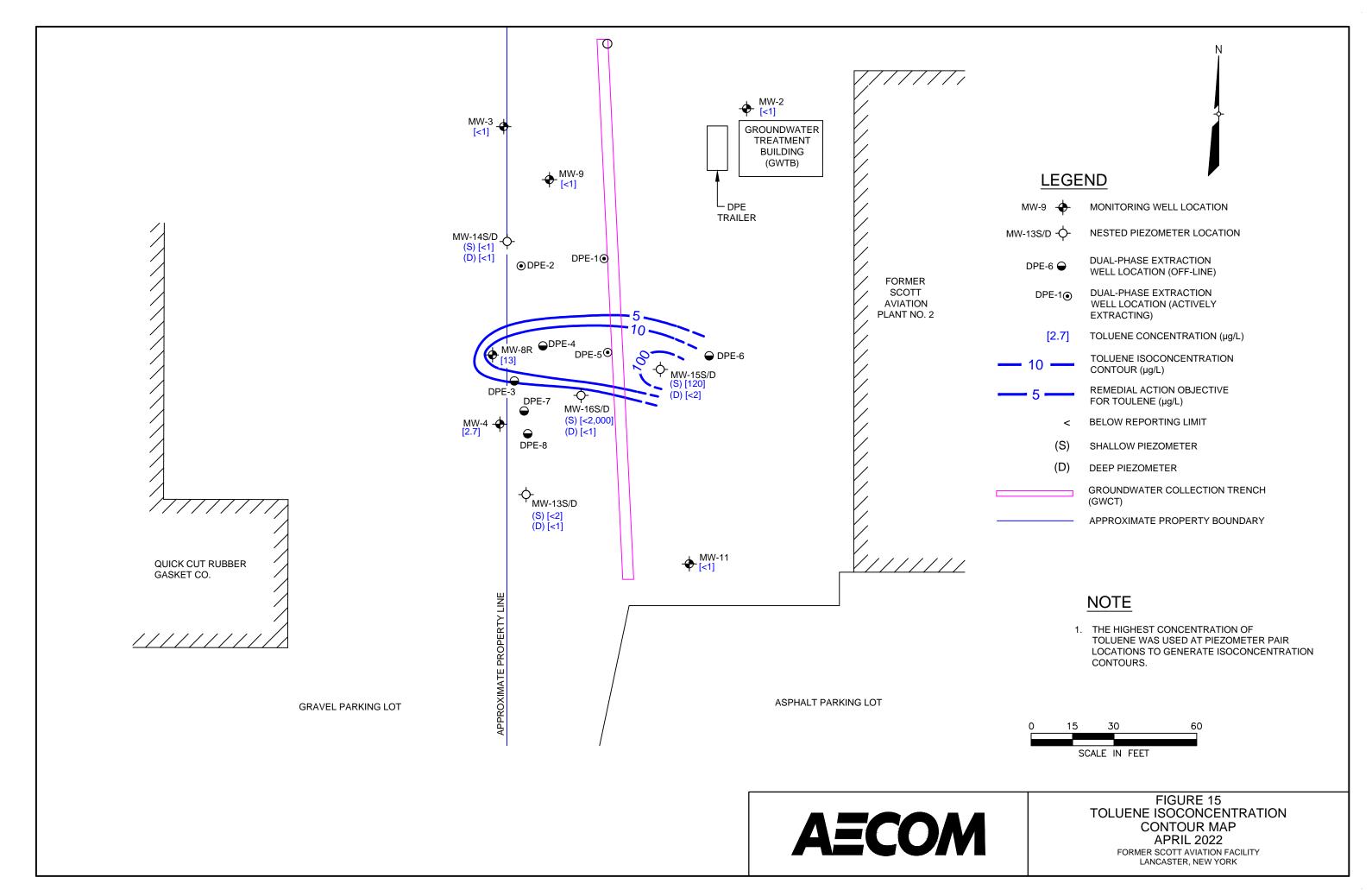


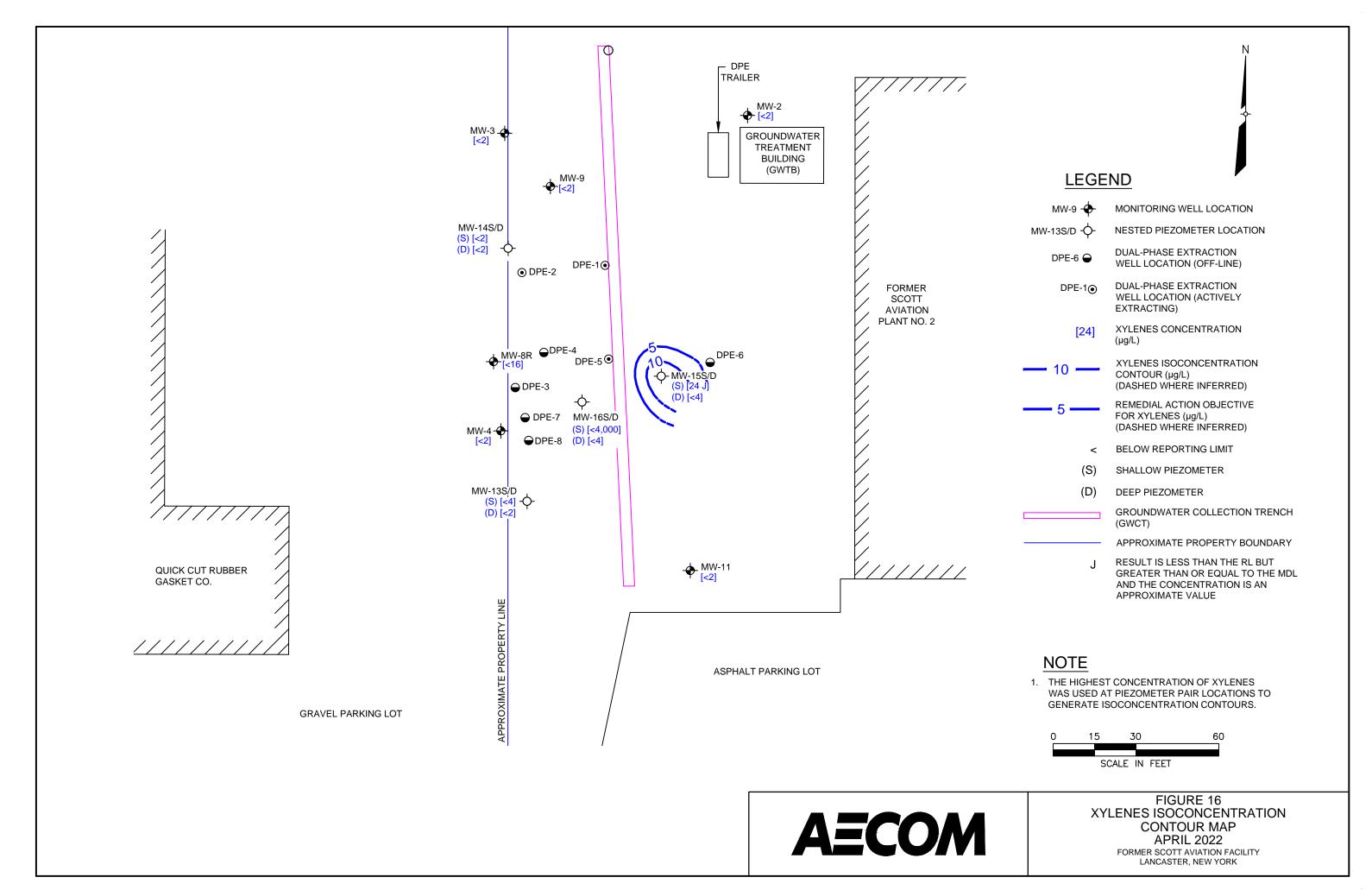
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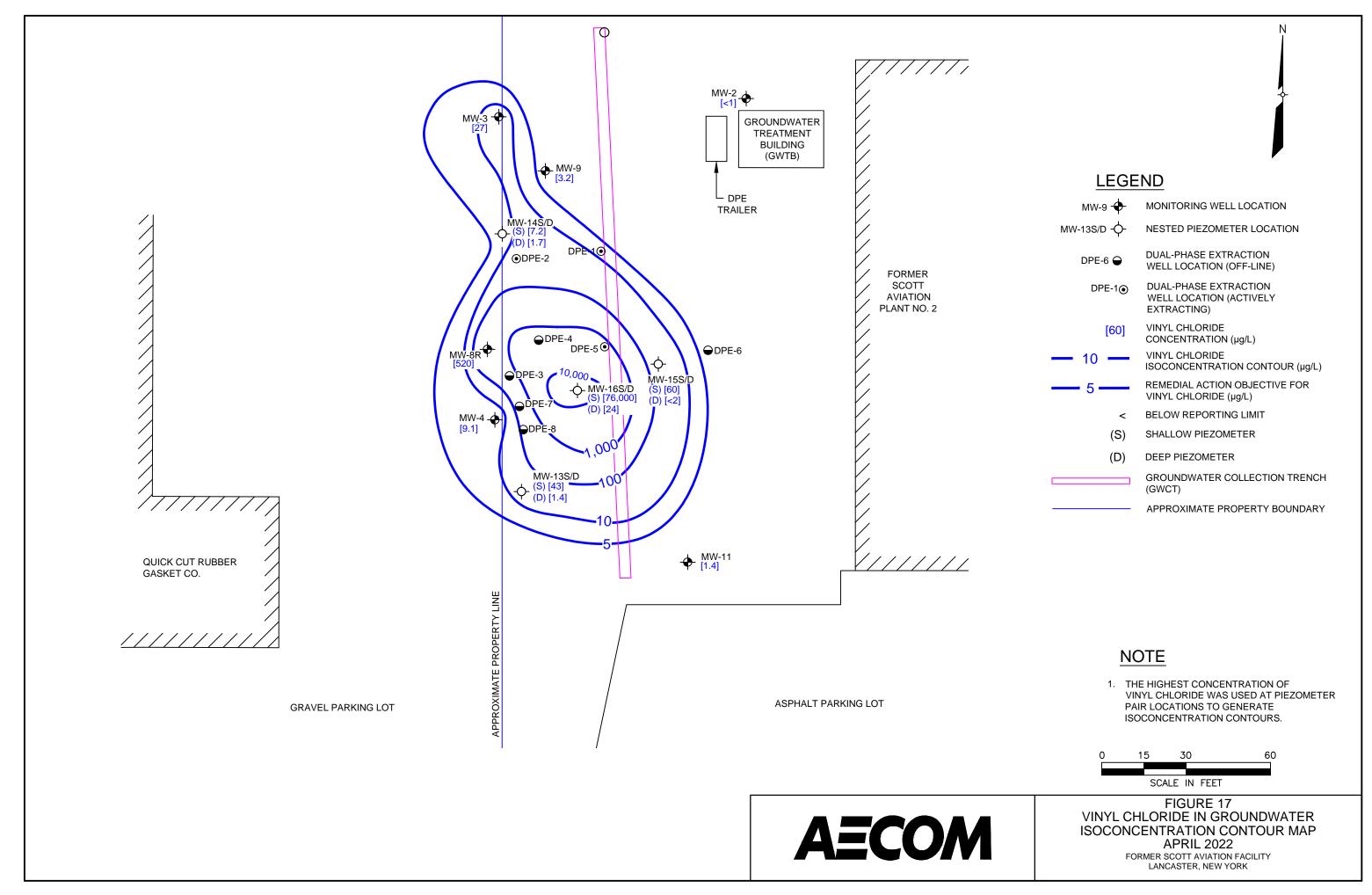


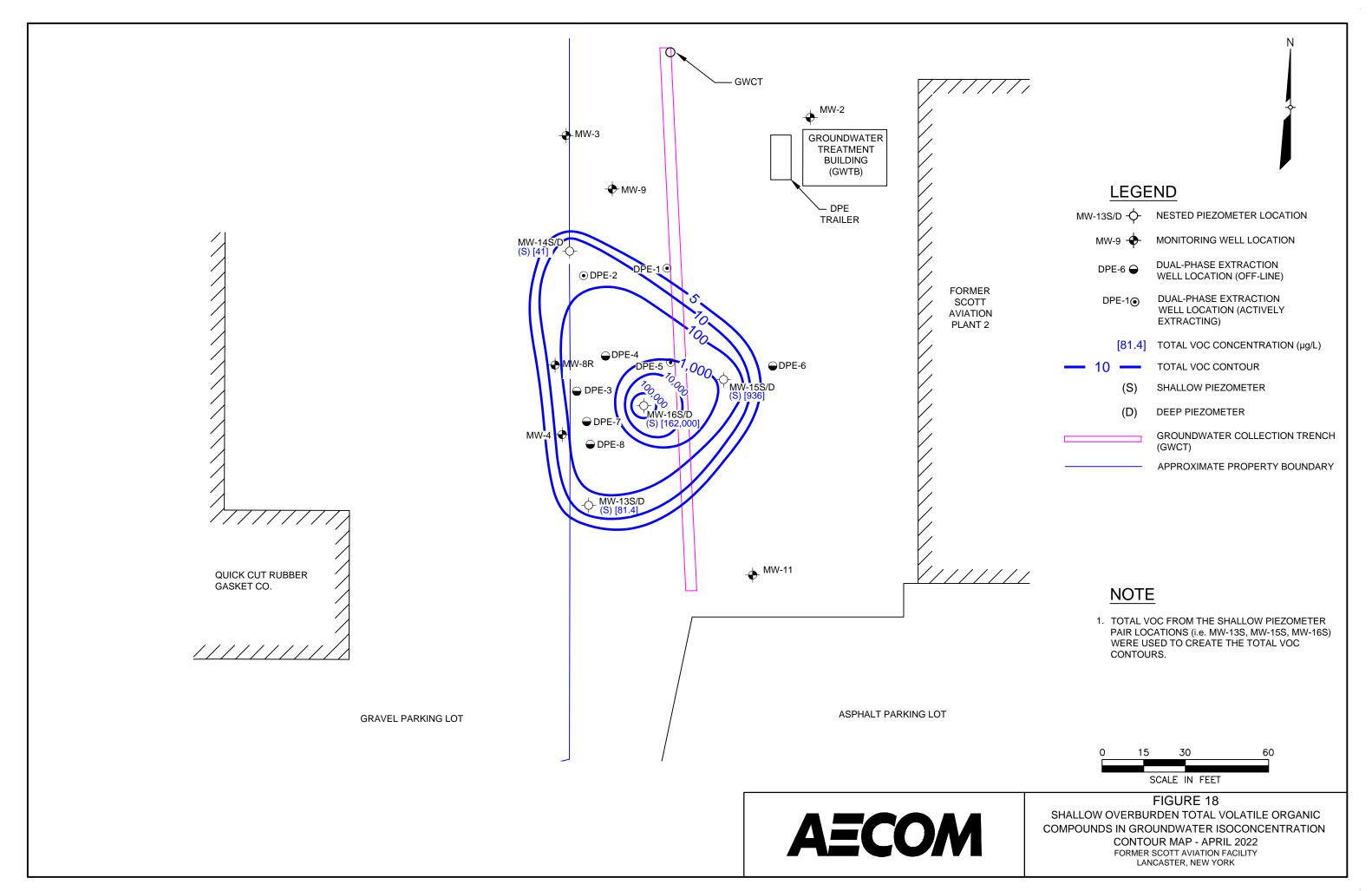






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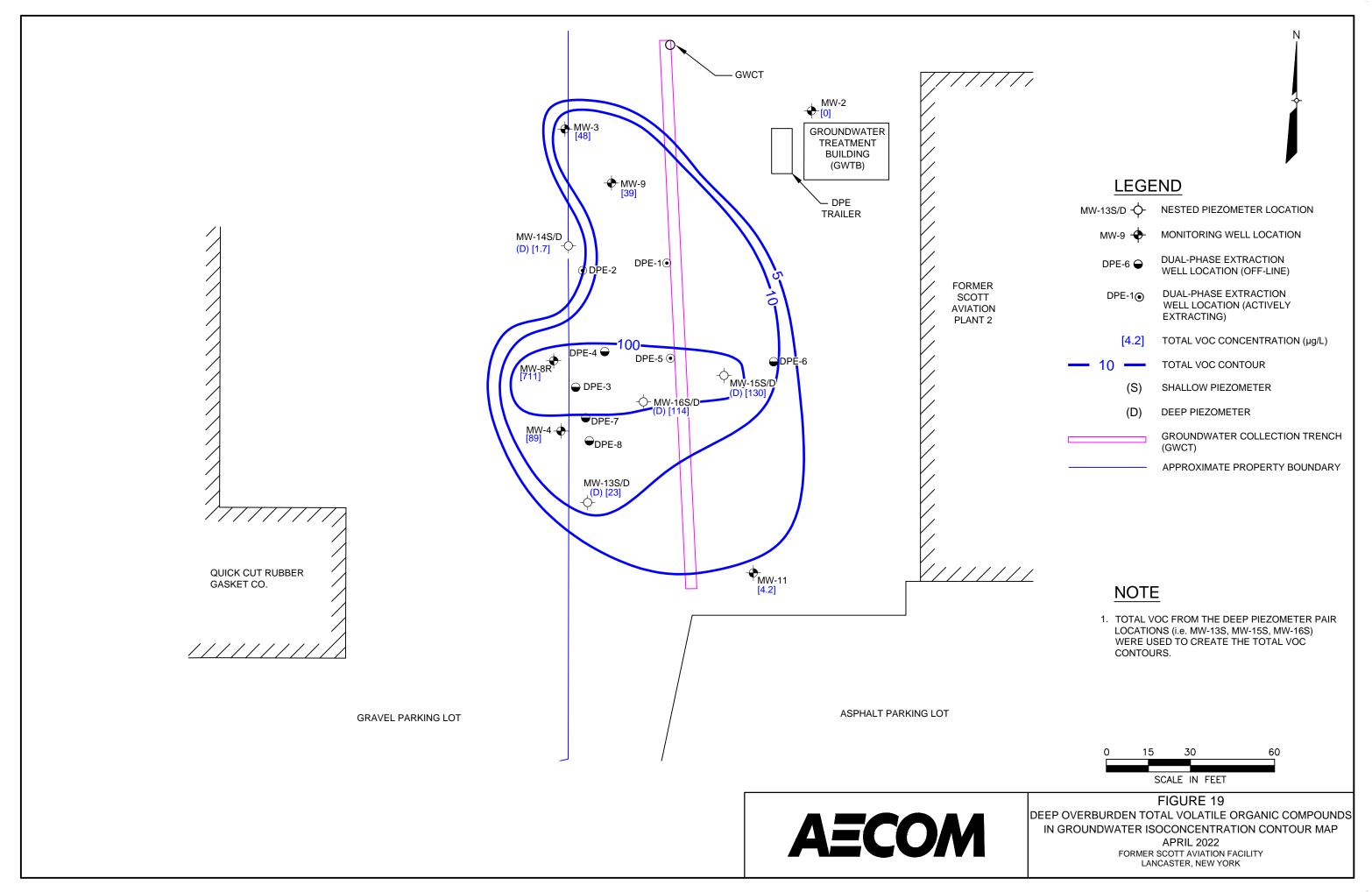


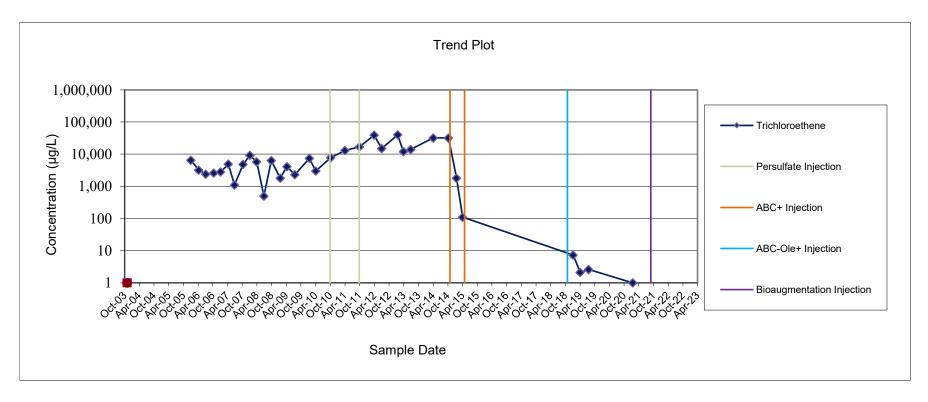
FIGURE 20

MONITORING WELL MW-4

HISTORICAL AND CURRENT SUMMARY OF TRICHLOROETHENE IN GROUNDWATER

Former Scott Aviation Site

Lancaster, New York



Notes: Trichloroethene has not been detected in the monitoring well since January 20, 2021 (1.0 $\mu g/L$).

Trichloroethene has not exceeded screening criteria in the monitoring well since January 10, 2019 (7.3 $\mu g/L$).

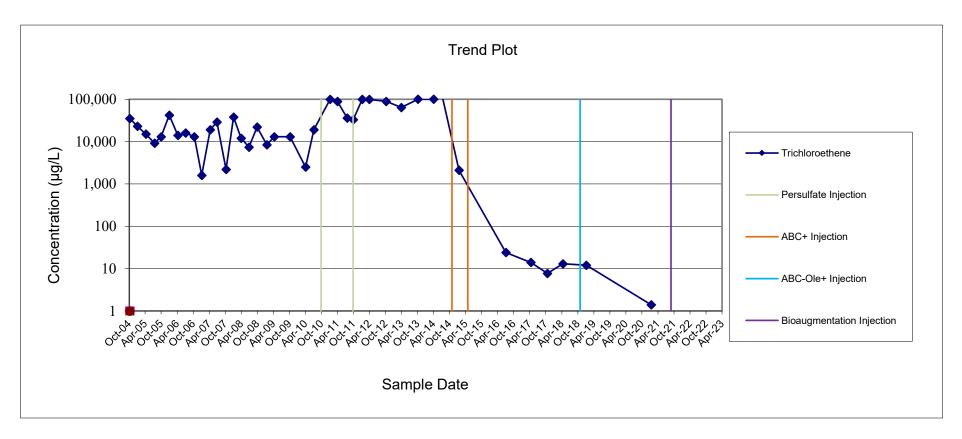
FIGURE 21

MONITORING WELL MW-8R

HISTORICAL AND CURRENT SUMMARY OF TRICHLOROETHENE IN GROUNDWATER

Former Scott Aviation Site

Lancaster, New York



Notes: Trichloroethene has not been detected in the monitoring well since January 20, 2021 (1.0 μg/L). Trichloroethene has not exceeded screening criteria in the monitoring well since January 10, 2019 (13 μg/L).

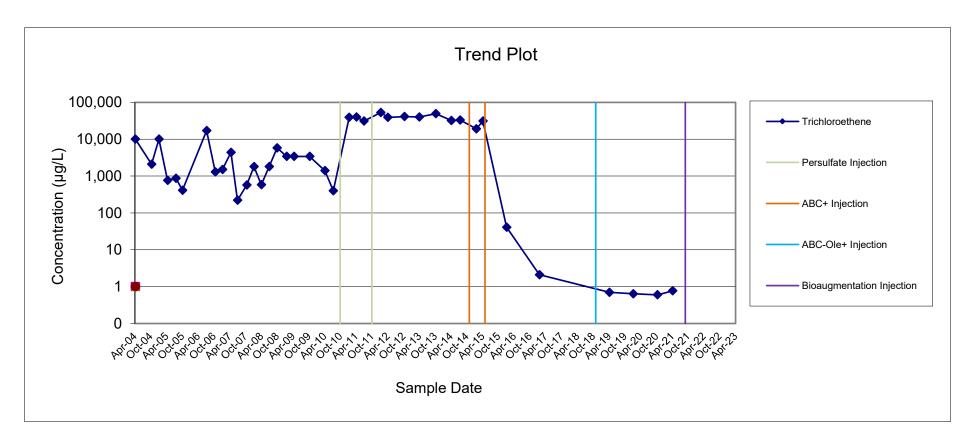
FIGURE 22

MONITORING WELL MW-13S

HISTORICAL AND CURRENT SUMMARY OF TRICHLOROETHENE IN GROUNDWATER

Former Scott Aviation Site

Lancaster, New York



Notes: Trichloroethene has not been detected in the monitoring well since April 7, 2021 (0.77 μg/L).

Trichloroethene has not exceeded screening criteria in the monitoring well since January 6, 2016 (41 μg/L).

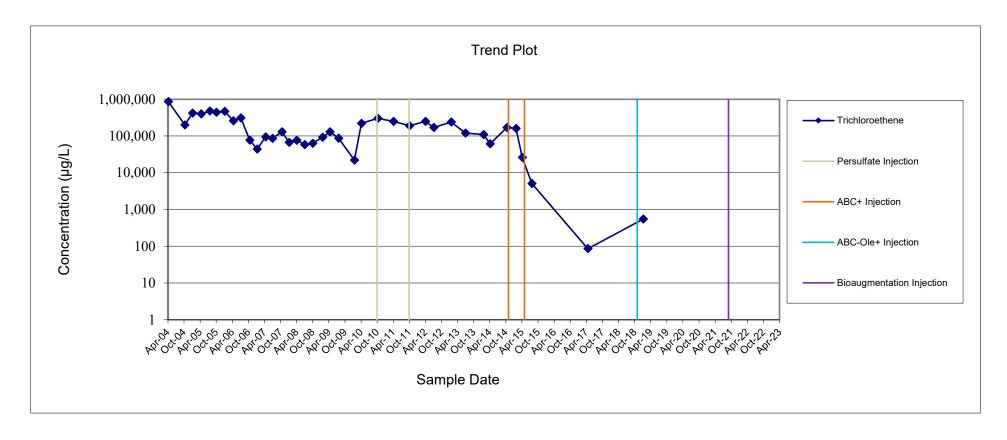
FIGURE 23

MONITORING WELL MW-16S

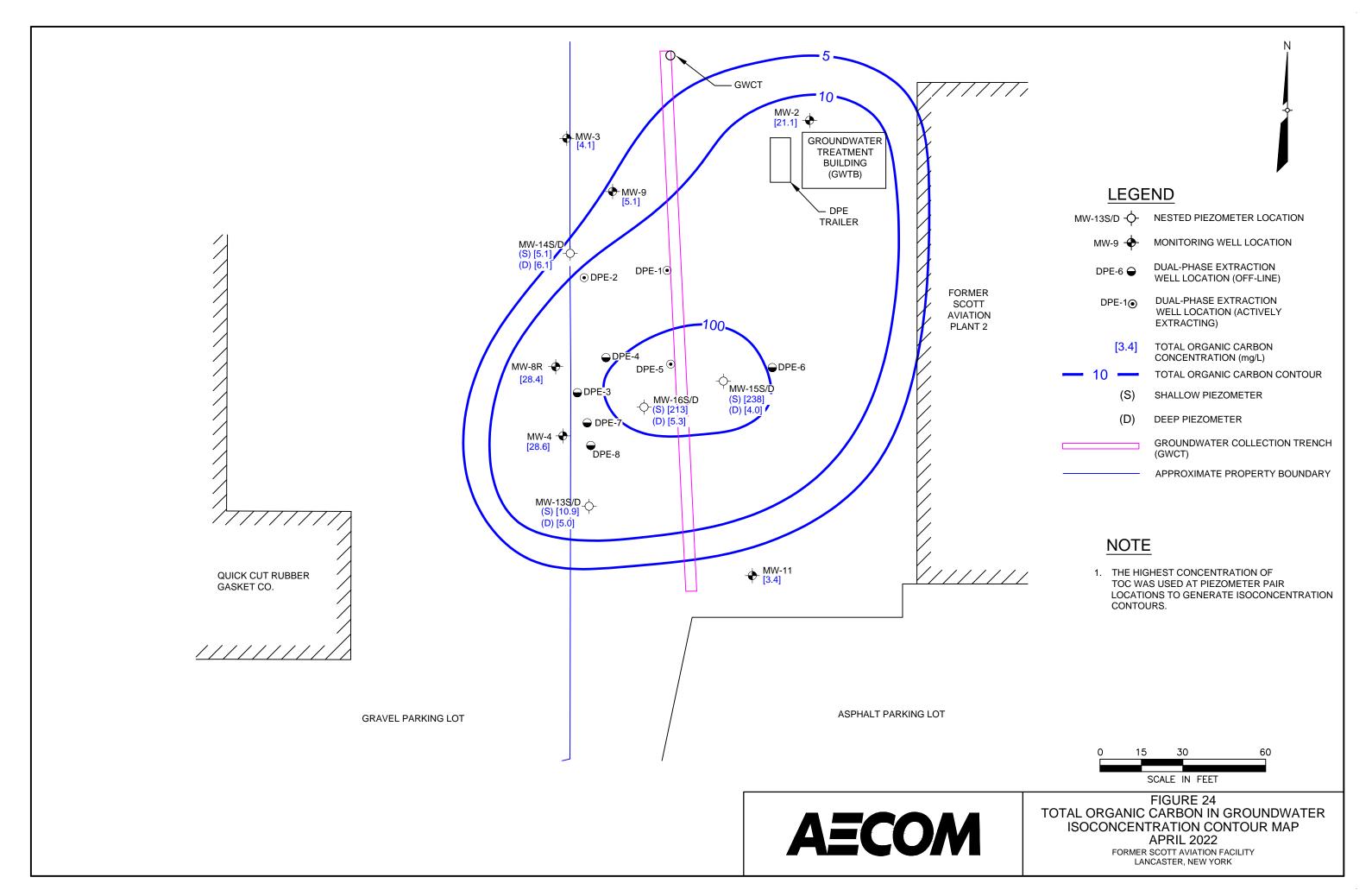
HISTORICAL AND CURRENT SUMMARY OF TRICHLOROETHENE IN GROUNDWATER

Former Scott Aviation Site

Lancaster, New York



Notes: Trichloroethene has not been detected in the monitoring well since January 9, 2019 (550 μ g/L). Trichloroethene has not exceeded screening criteria in the monitoring well since January 9, 2019 (550 μ g/L).



Project number: 60676130-1

Table 1

Remedial Action Objectives Former Scott Aviation Facility - West of Plant 2 NYSDEC Site Code No. 9-15-149 Lancaster, New York

	Remedial A	Action Objectives*
Volatile Organic Compounds	Soil (mg/kg)	Groundwater (µg/L)
1,1,1-Trichloroethane	1	5
1,1-Dichloroethane	1	5
1,2-Dichloroethene	1	5
Chloroethane	1	5
Ethylbenzene	1	5
Toluene	1	5
Trichloroethene	1	5
Vinyl chloride	1	5
Xylenes	1	5
Total VOCs	10	NA

Notes:

mg/kg - milligrams per kilogram $\mu g/L$ - micrograms per liter NA - not applicable

* Based on values presented in site-specific ROD (November 1994).

Monitoring Well, Nested Piezometer, and **Dual-Phase Extraction Well Construction Specifications** Former Scott Aviation Facility - West of Plant 2 NYSDEC Site Code No. 9-15-149 Lancaster, New York

Well ID	Date Installed	Top of Casing Elevation (ft AMSL)	Well Diameter (inches)	Bottom of Boring (ft bgs)	Screen Length (ft)	Well Screen Interval (ft bgs)	Filter Sand Pack Interval (ft bgs)	Bentonite Seal Interval (ft bgs)
Monitoring Wel	ls							
MW-1	(1)	NA	NA	NA	NA	NA	NA	NA
MW-2	05/24/91	687.00	2.0	15.0	10	5.0 - 15.0	4.0 - 15.0	1.0 - 4.0
MW-3	05/19/91	687.05	2.0	26.0	15	11.0 - 26.0	9.0 - 26.0	5.0 - 9.0
MW-4	05/23/91	656.50	2.0	26.0	10	16.0 - 26.0	14.0 - 26.0	11.0 - 14.0
MW-5	(1)	NA	NA	NA	NA	NA	NA	NA
MW-6 (4)	03/17/04	686.46	2.0	26.0	10	16.0 - 26.0	14.0 - 16.0	11.5 - 14.0
MW-7	(2)	NA	NA	NA	NA	NA	NA	NA
MW-8R	02/17/04	686.29	2.0	28.0	10	14.0 - 24.0	13.0 - 24.5	12.0 - 13.0
MW-9	04/11/99	689.57	2.0	25.4	20	5.4 - 25.4	4.0 - 25.4	2.0 - 4.0
MW-10 (4)	04/11/99	687.70	2.0	24.4	20	4.4 - 24.4	3.0 - 4.4	1.0 - 3.0
MW-11	03/01/04	688.61	2.0	29.0	20	8.5 - 28.5	7.5 - 29.0	6.5 - 7.5
MW-12 (4)	03/17/04	686.19	2.0	27.5	20	7.0 - 27.0	6.0 - 27.5	5.0 - 6.0
Nested Piezom	eters							
MW-13S	03/03/04	686.65	1.0	24.0	8	8.5 - 16.5	7.5 - 17.0	6.5 - 7.5
MW-13D	03/03/04	686.75	1.0	24.0	4	19.5 - 23.5	19.0 - 24.0	17.0 - 19.0
MW-14S	03/04/05	685.74	1.0	24.0	8	8.5 - 16.5	7.5 - 16.75	6.5 - 7.5
MW-14D	03/04/05	685.88	1.0	24.0	5	18.5 - 23.5	18.25 - 24.0	16.75 - 18.25
MW-15S	03/02/05	687.17	1.0	28.0	6	12.0 - 18.0	11.0 - 12.0	10.0 - 11.0
MW-15D	03/02/05	687.87	1.0	28.0	4	21.0 - 25.0	20.5 - 28.0	18.5 - 20.5
MW-16S	03/03/05	688.15	1.0	24.0	6	12.0 - 18.0	11.0 -18.25	10.0 - 11.0
MW-16D	03/03/05	688.16	1.0	24.0	4	20.0 - 24.0	19.75 - 24.0	18.25 - 19.75
Dual-Phase Ext	traction Recover	y Wells						
DPE-1	02/17/04	687.17	4.0	18.5	5	13.0 - 18.0	12.0 - 18.5	11.0 - 12.0
DPE-2	02/19/04	685.32	4.0	26.0	5	18.5 - 23.5	18.0 - 26.0	17.0 - 18.0
DPE-3	02/18/04	685.98	4.0	18.0	8	8.5 - 16.5	8.0 - 18.0	7.0 - 8.0
DPE-4	(3)	686.00	2.0	27.7	20	7.7 - 27.7	6.0 - 27.7	4.0 - 6.0
DPE-5	02/16/04	686.00	4.0	18.3	6	12.0 - 18.0	11.0 - 18.3	10.0 - 11.0
DPE-6	02/16/04	687.53	4.0	18.3	6	12.0 - 18.0	11.0 - 18.3	10.0 - 11.0
DPE-7	02/19/04	685.92	4.0	26.0	4	19.5 - 23.5	19.0 - 26.0	18.0 - 19.0
DPE-8	02/18/04	686.03	4.0	17.0	8	8.5 - 16.5	8.0 - 17.0	7.0 - 8.0

Notes:

ft bgs - feet below ground surface ft AMSL - feet above mean sea level MW-# - Monitoring Well

DPE-# - Dual-Phase Extraction Recovery Well

- (1) MW-1 and MW-5 are not monitored for this project.
- (2) MW-7 was abandoned in November 2003 per Section 3.7 of the Remedial Design Work Plan.
- (3) Pre-existing monitoring well MW-8 (installed 04/11/99) was converted to DPE-4 in February 2004.
- (4) Decommissioned

NA - Information is not available.

Table 3

Summary of the Groundwater Monitoring Program - July 2021 through April 2022 Former Scott Aviation Facility - West of Plant 2 NYSDEC Site Code No. 9-15-149 Lancaster, New York

Event Date	Number of Locations Sampled		Locations	s Sampled	
Quarterly Groundwa	ter Monitoring				
		MW-2	MW-3	MW-4	MW-8R
		MW-11	MW-13S	MW-13D	MW-16S
July 2021	18	MW-16D	DPE-1	DPE-2	DPE-3
		DPE-4	DPE-5	DPE-6	DPE-7
		DPE-8	GWCT		
		MW-2	MW-3	MW-4	MW-8R
		MW-11	MW-13S	MW-13D	MW-16S
October 2021	18	MW-16D	DPE-1	DPE-2	DPE-3
		DPE-4	DPE-5	DPE-6	DPE-7
		DPE-8	GWCT		
		MW-2	MW-3	MW-4	MW-8R
		MW-11	MW-13S	MW-13D	MW-16S
January 2022	18	MW-16D	DPE-1	DPE-2	DPE-3
		DPE-4	DPE-5	DPE-6	DPE-7
		DPE-8	GWCT		
Comprehensive Ann	ual Groundwater Monito	oring			
		MW-2	MW-3	MW-4	MW-8R
		MW-9	MW-11	MW-13S	MW-13D
April 2022	23	MW-14S	MW-14D	MW-15S	MW-15D
Αμιίι 2022	۷۵	MW-16S	MW-16D	DPE-1	DPE-2
		DPE-3	DPE-4	DPE-5	DPE-6
		DPE-7	DPE-8	GWCT	

Table 4

Groundwater Monitoring Water Level Data - April 4, 2022 Former Scott Aviation Facility - West of Plant 2 NYSDEC Site Code No. 9-15-149 Lancaster, New York

Monitoring Point Identification	Top of Casing Elevation (feet AMSL)	Depth to Water (feet from TOC)	Ground Water Elevation (feet AMSL)
Monitoring Wells			
MW-2	687.10	5.25	681.85
MW-3	687.05	8.24	678.81
MW-4	686.50	7.76	678.74
MW-8R	686.29	14.52	671.77
MW-9	689.57	12.10	677.47
MW-11	688.61	9.14	679.47
Nested Piezometers			
MW-13S	686.65	2.97	683.68
MW-13D	686.78	7.52	679.26
MW-14S	685.74	4.86	680.88
MW-14D	685.88	11.49	674.39
MW-15S	687.17	0.90	686.27
MW-15D	687.37	10.80	676.57
MW-16S	688.15	4.95	683.20
MW-16D	688.16	10.25	677.91
Remedial System			
GWCT Manhole (rim)	687.22	20.50	666.72

Notes:

TOC - Top of Casing

AMSL - Above Mean Sea Level

GWCT - Groundwater Collection Trench

GWCT is 200 feet long with a 0.01 foot/foot slope to the manhole

Locations re-surveyed on February 23, 2016.

Table 5

Summary of Monitoring Well Analytical Data - April 2022 Former Scott Aviation Facility - West of Plant 2 NYSDEC Site Code No. 9-15-149 Lancaster, New York

Sample ID	Groundwater		MW-2)		MW-3	}		MW-4			MW-8R			MW-9			MW-1	1	N	лW-13S	3
Date Collected	RAO/TOGS 1.1.1	(04/04/2	22	(04/04/2	22		04/06/2	22		04/06/22			04/04/22	2	(04/05/2	22	(04/05/22	2
Lab Sample ID	Objective	480)-1964	20-1	480	0-1964	20-2	48	0-1964	81-1	4	480-19648	1-2	48	0-19642	20-5	480	0-1964	17-2	480	-19641	7-1
Volatile Organic Compounds by Meth	od 8260 (µg/L)							_									_					
1,1-Dichloroethane	5*	<	1.0	U		17			2.2			4.1	J		20			0.52	J		0.90	J
1,2-Dichloroethane	0.6	<	1.0	U		0.37	J	<	1.0	U	<	8.0	U		0.30	J	<	1.0	U	<	2.0	U
2-Butanone (MEK)	50	<	10	U	<	10	U		3.7	J	<	80	U	<	10	U	<	10	U	<	20	U
Acetone	50	<	10	U	<	10	U		5.0	J	<	80	U	<	10	U	<	10	U	<	20	U
Benzene	1	<	1.0	U	<	1.0	U		1.1		٧	8.0	U	<	1.0	U	<	1.0	U	<	2.0	U
Chloroethane	5*	<	1.0	U		1.3			62			29		<	1.0	U	<	1.0	U		4.5	
cis-1,2-Dichloroethene	5*	<	1.0	U		2.6			3.3			65			14			1.3			33	F1
Toluene	5*	<	1.0	U	<	1.0	U		2.7			13		<	1.0	U	<	1.0	U	<	2.0	U
Trichloroethene	5*	<	1.0	U	<	1.0	U	<	1.0	U	٧	8.0	U	<	1.0	U	<	1.0	U	<	2.0	U
Vinyl chloride	5*	<	1.0	U		27			9.1			520			3.2			1.4			43	F1
Xylenes, Total	5*	٧	2.0	U	<	2.0	U	<	2.0	U	٧	16	U	<	2.0	U	٧	2.0	U	<	4.0	U
Total Volatile Organic Compounds	NL		0.0	Ť		48	,		89	, and the second		711	, and the second		39	, and the second		4.2	·	,	81.4	
Total Organic Carbon	NL		21.1			4.1			28.6			28.4			5.1			3.4			10.9	

Summary of Monitoring Well Analytical Data - April 2022 Former Scott Aviation Facility - West of Plant 2 NYSDEC Site Code No. 9-15-149 Lancaster, New York

Sample ID	Groundwater		MW-13E)		MW-14S		ı	MW-14D			MW-15S			MW-15D			MW-16S			MW-16D	,
Date Collected	RAO/TOGS 1.1.1		04/05/22	2		04/04/22		(04/04/22			04/05/22		(04/05/22			04/07/22			04/06/22	
Lab Sample ID	Objective	48	0-19642	0-3	48	0-196420)-6	480)-19642)-7	48	0-196420	8-(480	0-196420)-9	48	80-196549	-1	48	0-196481	1-3
Volatile Organic Compounds by Met	hod 8260 (µg/L)																					
1,1-Dichloroethane	5*	<	1.0	C		14		<	1.0	U		190		<	2.0	U	<	2,000	U		1.3	J
1,2-Dichloroethane	0.6	<	1.0	U		0.70	J	<	1.0	U	<	20	U	<	2.0	U	<	2,000	U	<	2.0	U
2-Butanone (MEK)	50		5.0	J	<	10	U	<	10	U	<	200	U	<	20	U	<	20,000	U	<	20	U
Acetone	50		10		<	10	U	<	10	U		100	J	<	20	U	<	20,000	U	<	20	U
Benzene	1	<	1.0	U		0.51	J	<	1.0	U	<	20	U	٧	2.0	U	<	2,000	U	<	2.0	U
Chloroethane	5*		12			1.0		<	1.0	U		95			130		<	2,000	U		89	
cis-1,2-Dichloroethene	5*	<	1.0	U		18		<	1.0	U		300		<	2.0	U		86,000		<	2.0	U
Toluene	5*	<	1.0	U	<	1.0	U	<	1.0	U		120		<	2.0	U	<	2,000	U	<	2.0	U
Trichloroethene	5*	<	1.0	U	<	1.0	U	<	1.0	U		47		<	2.0	U	<	2,000	U	<	2.0	U
Vinyl chloride	5*		1.4			7.2			1.7			60		<	2.0	U		76,000			24	
Xylenes, Total	5*	<	2.0	U	<	2.0	U	'	2.0	U		24	J	٧	4.0	U	<	4,000	U	<	4.0	U
Total Volatile Organic Compounds	NL		23			41			1.7			936			130			162,000	Ü		114	
Total Organic Carbon	NL		5.0			5.1			6.1			238			4.0			213			5.3	

Notes:

Bold font indicates the analyte was detected.

Bold font and bold outline indicates the screening criteria was exceeded.

Site-specific RAO's 1,1,1-Trichloroethane and Ethylbenzene were not detected above the reporting limit.

- J Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
- U Not detected at or above reporting limit.
- F1 MS and/or MDS recovery exceeds control limits.

MS and/or MSD recovery exceeds control limits.

NL - Not listed.



^{^ -} Duplicate collected at MW-11.

^{*} Site-specific RAO per ROD (November 1994).

Table 6

Sample ID	Groundwater	GW	CT Man	hole	GW	CT Man	hole	GW	CT Man	hole	GW	CT Mar	hole	GW	CT Man	hole	GW	CT Mar	hole	GW	CT Man	hole	GW	CT Mar	ihole
Date Collected	RAO/TOGS 1.1.1		07/24/15	5		10/19/1	5		01/05/16	3		04/04/1	6		07/05/16	3		10/27/1	6	(01/16/17	7		04/20/1	7
Lab Sample ID	Objective	480	0-84562	-15	48	0-89674	-20	48	0-93630	-15	48	0-84562	!-15	48	0-10266	2-4	480	0-10853	8-2	480	0-11233	4-8	480	-11672	ე-15
Volatile Organic Compounds by M	ethod 8260 (µg/L)																								
1,1-Dichloroethane	5*		1.3			0.7		<	1.0	U		0.4	J	<	1.0	U	<	1.0	U	<	1.0	U		0.74	J
2-Butanone (MEK)	50		2.4	J	<	10	U	<	10	U	<	10	U	<	1.0	U	<	1.0	U	<	1.0	U	<	10	U
Acetone	50		7.0	J	<	10	U	<	10	U	<	10	U	<	1.0	U	<	1.0	U	<	1.0	U	<	10	U
Carbon disulfide	1	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	٧	1.0	U	٧	1.0	U	٧	1.0	U	٧	1.0	U
Chloroethane	5*	<	1.0	U	<	1.0	U		62			44			70			34			45			26	
Chlormethane	5	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U
cis-1,2-Dichloroethene	5*		1.1		<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U		0.74	J
Ethylbenzene	5	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U
Toluene	5*	<	1.0	U	<	1.0	U		0.99	J	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U
trans-1,2-Dichloroethene	5	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U
Vinyl chloride	5*	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U
Xylenes, Total	5*	<	2.0	U	<	2.0	U	<	2.0	U	<	2.0	U	٧	2.0	U	٧	2.0	U	٧	2.0	U	٧	2.0	U
Total Volatile Organic Compounds	NA NA		12.8			0.7			63			44			70			34			45			27	

Table 6

Sample ID	Groundwater	GW	CT Mar	nhole	GW	CT Man	hole	GW	CT Man	hole	GW	CT Man	hole	GW	CT Mar	hole	GW	CT Mar	hole	GW	CT Man	hole	GW	CT Man	hole
Date Collected	RAO/TOGS 1.1.1	(07/11/1	7		10/23/17	7		01/08/18	3		04/13/18	3		07/12/1	В		10/24/1	8		01/09/19	9		04/08/19	9
Lab Sample ID	Objective	480	-12104	2-15	48	0-12642	0-1	480	-129995	5-13	48	0-13423	4-8	480	0-13878	1-4	480	-14417	0-15	480)-147748	3-15	480	-151586	3-12
Volatile Organic Compounds by M	ethod 8260 (µg/L)																								
1,1-Dichloroethane	5*	<	1.0	U	<	1.0	U	<	1.0	U		0.52	J	<	1.0	U	<	1.0	U		0.38	J		0.48	J
2-Butanone (MEK)	50	<	10	U	<	10	U	<	10	U	<	10	U	<	10	U	<	10	U	<	10	U	<	10	U
Acetone	50	<	10	U	<	10	U	<	10	U		10	J	<	10	U	<	10	U	<	10	U	<	10	U
Carbon disulfide	1	<	1.0	U	٧	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	٧	1.0	U	٧	1.0	U		0.20	J
Chloroethane	5*		65			45			64			53			49			38			28			48	
Chlormethane	5	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	C	<	1.0	U	'	1.0	U
cis-1,2-Dichloroethene	5*	<	1.0	U	<	1.0	U		5.1		<	1.0	U	<	1.0	U	<	1.0	U		0.93	J		1.20	
Ethylbenzene	5	<	1.0	U		0.19	J	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U
Toluene	5*	<	1.0	U		0.25	J	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U		0.80	J		0.60	J
trans-1,2-Dichloroethene	5	<	1.0	U		0.34	J	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U
Vinyl chloride	5*	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U		1.4	
Xylenes, Total	5*	<	2.0	U		0.67	J	<	2.0	U	<	2.0	U	<	2.0	U	<	2.0	U	٧	2.0	U	٧	2.0	U
Total Volatile Organic Compounds	NA NA		65			45			69			64			49			38			30			52	

Table 6

Sample ID	Groundwater	GW	CT Man	hole	GW	CT Man	hole	GW	CT Man	hole	GW	CT Mar	nhole	GW	CT Man	hole	GW	CT Mar	nhole	GW	CT Man	hole	GW	CT Man	hole
Date Collected	RAO/ TOGS 1.1.1	(07/23/19	9		10/14/19	9		01/06/20)		04/06/20	0		07/22/20)		10/13/2	0	(01/20/2	1	(04/07/2	1
Lab Sample ID	Objective	480	0-15662	2-7	480	0-16083	9-7	480	-165026	3-18	480	-16838	3-16	480)-172827	7-15	480	-17647	0-13	480	-18039	5-15	480	-182978	3-13
Volatile Organic Compounds by M	ethod 8260 (µg/L)																								
1,1-Dichloroethane	5*	<	1.0	U	<	1.0	U		0.45	J	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U
2-Butanone (MEK)	50	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U									
Acetone	50	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U									
Carbon disulfide	1	<	1.0	U	<	1.0	U	٧	1.0	U	<	1.0	U	٧	1.0	U									
Chloroethane	5*		48			28			34			52			37			34			24			29	
Chloromethane	5	<	1.0	U		0.42	J	<	1.0	U	<	1.0	U	<	1.0	U									
cis-1,2-Dichloroethene	5*	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U									
Ethylbenzene	5	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U									
Toluene	5*	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U									
trans-1,2-Dichloroethene	5	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U									
Vinyl chloride	5*	<	1.0	U		1.2	U	<	1.0	U	<	1.0	U	<	1.0	U									
Xylenes, Total	5*	<	2.0	U	<	2.0	U	٧	2.0	U	<	2.0	U	٧	2.0	U									
Total Volatile Organic Compounds	NA		48			28			34			52			39			34			24			29	

Table 6

Sample ID	Groundwater	GW	CT Mai	nhole	GW	CT Man	hole	GW	CT Mar	hole	GW	CT Mar	hole
Date Collected	RAO/ TOGS 1.1.1	C	7/15/2	1		10/19/21	l	(1/19/2	2	(04/06/2	2
Lab Sample ID	Objective	480-	18729	2-18	480)-191095	5-10	480	-19434	4-18	48	0-1964	79
Volatile Organic Compounds by M	ethod 8260 (µg/L)												
1,1-Dichloroethane	5*	<	1.0	U		0.44	J	<	1.0	U	<	1.0	U
2-Butanone (MEK)	50	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U
Acetone	50	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U
Carbon disulfide	1	٧	1.0	U	٧	1.0	U	٧	1.0	U	٧	1.0	U
Chloroethane	5*		37			32			28			24	
Chloromethane	5	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U
cis-1,2-Dichloroethene	5*	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U
Ethylbenzene	5	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U
Toluene	5*	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U
trans-1,2-Dichloroethene	5	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U
Vinyl chloride	5*	<	1.0	U	<	1.0	U	<	1.0	U	<	1.0	U
Xylenes, Total	5*	<	2.0	U	<	2.0	U	<	2.0	U	<	2.0	U
Total Volatile Organic Compounds	NA		37			32			28			24	

Notes:

Bold font indicates the analyte was detected.

Bold font and bold outline indicates the screening criteria was exceeded.

NA - Not applicable

^{*} Site-specific RAO per ROD (November 1994)

J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

U - Not detected at or above reporting limit.

Summary of Dual Phase Extraction Well Groundwater Analytical Data Former Scott Aviation Facility - West of Plant 2 NYSDEC Site Code No. 9-15-149 Lancaster, New York

Sample ID	Groundwater	DPE-1		DPE-2)	DPE-3		DPE-4	i	DPE-5	j	DPE-6	3	DPE-	7	DPE-8	
Date Collected	RAO/TOGS 1.1.1	04/06/2	04/06/22		04/06/22		04/06/22		04/06/22		04/06/22		22	04/06/22		04/06/22	
Lab Sample ID	Objective	480-1964	79-1	480-196479-2		480-19647	9-3	480-19647	79-4	480-19647	79-5	5 480-196479-6		480-196479-7		480-196479	-8
Volatile Organic Compounds by M	ethod 8260 (µg/L)																
1,1,1-Trichloroethane	5*	8.0	U	1.0	U	20	U	4.0	U	4.0	U	1.0	U	2.0	U	100	
1,1-Dichloroethane	5*	40		1.0	U	20	U	2.9	J	3.3	J	1.0	U	2.0	U	120	
2-Butanone (MEK)	50	69	J	10	U	200	U	40	U	32	J	10	U	20	U	1,000	U
Acetone	50	190		10	U	92	J	40	U	120		10	U	7.8	J	1,000	U
Carbon Disulfide	60	8.0	U	1.0	U	20	U	4.0	U	1.7	J	1.0	U	2.0	U	40	U
Chloroethane	5*	7.9	J	1.0	U	20	U	4.0	U	19		1.0	U	62		47	J
cis-1,2-Dichloroethene	5*	52		2.3		30		250		13		1.0	U	6.5		4,500	
Toluene	5*	8.7	J	1.0	U	20	U	4.0	U	2.0	J	1.0	U	1.1	J	100	U
Trichloroethene	5*	7.2	J	1.0	U	20	U	60		4.0	U	1.0	U	2.0	U	100	U
Vinyl chloride	5*	9.2		8.8		54		130		12		1.0	U	5.2		1,900	
Total Volatile Organic Compounds	NL	384		11.1		176		443		203		0		83		6,667	
Total Organic Carbon (mg/L)	NL	614		6.4		98.0		11.0		86.4		6.0		12.4		31.5	

Notes:

Bold font indicates the analyte was detected.

Bold font and bold outline indicates the screening criteria was exceeded.

Total Organic Carbon by Method 9060A.

- J Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
- U Not detected at or above reporting limit.

NS - Not sampled.

^{*} Site-specific RAO per ROD (November 1994).

Bioattenuation Screening Summary Former Scott Aviation Facility - West of Plant 2 NYSDEC Site Code No. 9-15-149 Lancaster, New York

									Monito	ring Well	Identification	on				
Parameter	Units	Criteria			MW-4	1	MW-	8R	MW-	11	MW-1	13S	MW-1	16S	MW-1	6D
				Plume V	Plume Well		Well	Background well		Plume Well		Plume Well		Plume	Plume Well	
				Value	4/6/22	Score	4/6/22	Score	4/5/22	Score	4/5/22	Score	4/7/22	Score	4/6/22	Score
Dissolved Oxygen	mg/L	< 0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	3	0.26	3	0.18	3	0.20	3	0.12	3	0.27	3	0.08	3
		> 5 mg/L	Not tolerated; however, VC may be oxidized aerobically	-3												
Nitrate	mg/L	< 1 mg/L	At higher concentrations may compete with reductive pathway	2	0.032	2	<0.050	2	<0.050	2	<0.050	2	<0.020	2	<0.050	2
Ferrous Iron	μg/L	> 1 mg/L	Reductive pathway possible	3	< 0.075	0	0.33	0	<0.075	0	0.080	0	<0.075	0	0.18	0
Sulfate	mg/L	< 20 mg/L	At higher concentrations may compete with reductive pathway	2	<3.5	2	29.0	0	6.1	2	4.4	2	19.5	2	<20	2
Sulfide	mg/L	> 1 mg/L	Reductive pathway possible	3	<0.67	0	<0.67	0	<1.0	0	<1	0	<0.67	0	<1.0	0
Methane	μg/L	< 500 μg/L	VC oxidizes	0												
		> 500 µg/L	Ultimate reductive daughter product, VC accumulates	3	14,000	3	19,000	3	2,400	3	30,000	3	14,000	3	21,000	3
Ethene	μg/L	> 10 µg/L	Daughter product of VC	2	660	2	1,300	2	<33	0	340	2	59,000	2	1,300	2
Ethane	μg/L	> 100 µg/L	Daugher product of Ethene	3	560	3	600	3	<170	0	950	3	560	3	660	3
ORP	mV	< 50 mV	Reductive pathway possible	1					-46.2	1						
		< -100 mV	Reductive pathway likely	2	-145.3	2	-162.3	2			-122.0	2	-101.2	2	-157.4	2
pН	s.u.	5 < pH < 9	Optimal range for reductive pathway	0	7.37	0	7.53	0	6.53	0	7.02	0	6.65	0	7.46	0
		5 > pH > 9	Outside optimal range for reductive pathway	-2												
Temperature	°C	> 20°C	At temperature > 20°C, biochemical process is accelerated	1	11.00	0	11.00	0	11.40	0	11.20	0	11.50	0	13.70	0
TOC	mg/L	> 20 mg/L	Carbon and energy source, drives dechlorination (natural or anthropogenic)	2	28.6	2	28.4	0	3.4	0	10.9	0	213	2	5.3	0
Carbon Dioxide	μg/L	> 2x background	Ultimate oxidative product	1	32,000	0	33,000	0	160,000	0	61,000	0	130,000	0	39,000	0
Alkalinity	mg/L	> 2x background	Results from interaction of between carbon dioxide and aquifer minerals	1	352	0	430	0	460	0	495	0	548	0	433	0
PCE ¹	μg/L		N/A	0	<4	0	<8	0	<1	0	<2	0	<1000	0	<2	0
TCE ²	μg/L		Material Released	0	<1	0	<8	0	<1	0	<2	0	<1000	0	<2	0
DCE ³	μg/L		Daugher product of TCE (score if cis-1,2-DCE is 80% of total DCE)	2	3.3	2	65	2	<1	0	<2	0	86,000	2	<2	0
VC ⁴	μg/L		Daugher product of DCE	2	9.1	2	520	2	1.4	2	43	2	76,000	2	24	2
1,1,1-TCA ⁵	μg/L		Material Released	0	<1	0	<10	0	<1	0	<2	0	<1000	0	<2	0
1,1-DCA ⁶	μg/L		Daugher product of 1,1,1-TCA under reducing conditions	2	2.2	2	4.1	2	0.52	2	0.90	2	<1000	0	1.30	2
CA ⁷	μg/L		Daughter product of 1,1-DCA or VC under reducing conditions	2	62	2	29	2	<1	0	4.5	2	<1000	0	89	2
			TOTAL SCORE			27		23		15		23		23		23

Notes:

DCE = dichloroethene

°C = degrees Celsius

μg/L = micrograms per liter

mg/L = milligrams per liter mV = millivolts

ORP = oxidation-reduction potential

s.u. = standard unit PCE = tetrachloroethene

TCE = trichloroethene

TOC = total organic carbon

VC = vinyl chloride

1,1,1-TCA = 1,1,1-trichloroethane 1,1-DCA = 1,1-dichloroethane

CA = chloroethane

0 to 5 points: There is <u>inadequate</u> evidence for anaerobic biodegradation of chlorinated organics.

6 to 14 points: There is <u>limited</u> evidence for anaerobic biodegradation of chlorinated organics. 15 to 20 points: There is adequate evidence for anaerobic biodegradation of chlorinated organics.

>20 points: There is strong evidence for anaerobic biodegradation of chlorinated organics.

1 = Material Released

² = Daugher product of PCE

³ = Daugher product of TCE (score if cis-1,2-DCE is 80% of total DCE)

⁴ = Daugher product of DCE

^{5 =} Material Released

⁶ = Daugher product of 1,1,1-TCA under reducing conditions

⁷ = Daughter product of 1,1-DCA or VC under reducing conditions

Pre- and Post-Bioaugmentation Injection VFA Data Comparison Former Scott Aviation Facility - West of Plant 2 NYSDEC Site Code No. 9-15-149 Lancaster, New York

Sample ID	Sample Date	Sample Dilution	Lactate	Acetate	Propionate	Formate	Butyrate	Pyruvate
		Factor	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-8R	8/26/2021	50	1.2	70	<0.31	<0.22	<0.41	<0.69
MW-8R	12/9/2021	50	<0.39	28	<0.31	<0.22	<0.41	<0.69
MW-8R	4/6/2022	50	<0.39	37	<0.31	<0.22	<0.41	<0.69
MW-16S	8/26/2021	50	<0.39	495	12	<0.22	81	0.71
MW-16S	12/9/2021	1000	<7.8	921	14	<4.4	98	<13.8
MW-16S	4/7/2022	1000	<7.8	532	<6.2	<4.4	48	<0.69

Notes:

VFA - Volatile fatty acid mg/L - milligram per liter

Table 10

Pre- and Post-Bioaugmentation Injection Gene-Trac® Data Comparison Former Scott Aviation Facility - West of Plant 2 NYSDEC Site Code No. 9-15-149 Lancaster, New York

Cample ID	Samula Data		Dehalococcoides (Dhc)		Dehalobacter (Dhb)		VC Reductase (vcrA)		BAV1 VC Reductase (bvcA)		eductase tceA)
Sample ID	Sample Date	Percent Dhc	Enumeration/Liter	Percent Dhb	Gene Copies/Liter	Percent vcrA	Gene Copies/Liter	Percent bvcA	Gene Copies/Liter	Percent tceA	Gene Copies/Liter
MW-16S	8/26/2021	8 - 23 %	1 x 10 ⁹	0.3 - 1 %	5 x 10 ⁷	8 - 22 %	1 x 10 ⁹	1 - 3 %	1 x 10 ⁸	7 - 18 %	1 x 10 ⁹
MW-16S	12/9/2021	6 - 17 %	1 x 10 ⁹	0.08 - 0.2 %	2 x 10 ⁷	5 - 15 %	1 x 10 ⁹	0.3 - 1 %	6 x 10 ⁷	2 - 5 %	3 x 10 ⁸
MW-16S	4/7/2022	31 - 67 %	5 x 10 ⁹	0.07 - 0.2 %	1 x 10 ⁷	33 - 71 %	6 x 10 ⁹	0.3 - 0.8 %	4 x 10 ⁷	1 - 3 %	2 x 10 ⁸

Table 11

Summary of Vapor Monitoring Results - April 2022 Former Scott Aviation Facility - West of Plant 2 NYSDEC Site Code No. 9-15-149 Lancaster, New York

	Sample ID: LRP Effluent 2 mple Date: 4/6/2022	Q22 AS Effluent 2Q22 4/6/2022
VOCs by Method TO-15 (μg/m³)		
1,2-Dichloroethene, Total	2.1	U
Acetone	14	U
Chloromethane	1.1	1.0
Methyl Ethyl Ketone	2.1	1.6
Toluene	1.3	0.77
Trichlorofluoromethane	1.1	U
Vinyl chloride	3.1	U
Total Detected VOCs (μg/m³)	24.8	3.37
Vacuum (inches Hg)	24	0.405
Air Flow Rate (acfm)	99.16	294.75
VOC discharge loading (lb/hr)	0.000009	0.000004
Total VOC discharge loading (lb/hr)		0.000013

Notes:

- 1. μg/m³ = micrograms per cubic meter
- 2. acfm = actual cubic feet per minute
- 3. Hg = Mercury
- 4. scfm = standard cubic feet per minute
- 5. lb/hr = pounds per hour
- LRP Effluent represents the untreated vapor discharge for the Liquid Ring Pump. Note only DPE-1, -2, and -5 are on-line to accommodate the September 2021 bioaugmentation injections.
- 7. AS Effluent represents the untreated vapor discharge for the Air Stripper.

Qualifiers:

U - Not detected at or above reporting limit (reporting limit not included in the Total Detected VOCs).

Volatile Organic Compound Mass Removed - Aqueous Phase Former Scott Aviation Facility - West of Plant 2 NYSDEC Site Code No. 9-15-149 Lancaster, New York

Sample ID Sample Date	Influent 3Q21 7/13/2021	Influent 4Q21 10/18/2021	Influent 1Q22 1/19/2022	Influent 2Q22 4/4/2022			
VOCs (Method 8260) (μg/L)							
Acetone	ND	9.5 J	ND	19			
2-Butanone (MEK)	ND	ND	ND	5.1			
Chloroethane	1.5	7.5	ND	ND			
cis-1,2-Dichloroethene	3.9	ND	ND	ND			
Methylene Chloride	ND	ND	ND	ND			
Total VOCs (μg/L)	5.4	17.0	0	24			
Totalizer Readings (gallons)	1,454,090 (4/6/21) 1,586,338 (7/13/21)	1,586,338 (7/13/21) 1,708,730 (10/18/21)	1,708,730 (10/18/21) 1,900,010 (1/19/22)	1,900,010 (1/19/22) 2,046,880 (4/4/22)			
Gallons Processed	132,248	122,392	191,280	146,870			
VOCs Removed (pounds)	0.006	0.017	0.000	0.030			
Total VOCs Removed (pounds)	0.05						

Notes:

- μg/L = micrograms per liter
- 2. Influent Represents the combined dual phase extraction and groundwater collection trench influent to the air stripper.
- 3. Dates are indicated next to the air stripper totalizer readings.
- 4. Totalizer readings from the air stripper effluent.
- 5. The majority of the VOCs removed is through the liquid ring pump vapor discharge before it reaches the air stripper.
- 6. The combined remedial system was taken off-line following the bioaugmentation injection on September 13 2021; the air stripper was brought back on-line on October 4, 202 and dual phase extraction wells DPE-1, -3, and -5 were brought back on-line on November 23 2021.

Qualifiers:

- J Indicates compounds detected as estimated.
- ND Indicates compounds not detected above the quantitation limit.

Table 13

Volitile Organic Compound Mass Removed - Vapor Phase Former Scott Aviation Facility - West of Plant 2 NYSDEC Site Code No. 9-15-149 Lancaster, New York

Sample Sample D		1 AS Effluent 3Q21 7/13/2021	LRP Effluent 4Q21 Not Sampled	AS Effluent 4Q21 10/18/2021	LRP Effluent 1Q22 1/19/2022	AS Effluent 1Q22 1/19/2022	LRP Effluent 2Q21 4/4/2022	AS Effluent 2Q22 4/4/2022
VOCs by Method TO-15 (µg/m³)								
1,2,4-Trimethylbenzene	- U	J 1.6		- U	- U	- U	- U	- U
1,1,1-Trichloroethane	32	- U		- U	- U	- U	- U	- U
1,1-Dichloroethane	26	- U		- U	-	- U	- U	- U
1,1-Dichloroethene	8.9	- U		- U	- U	- U	- U	- U
1,2-Dichloroethene, Total	1,700	30		- U	1.7	- U	2.1	- U
1,4-Dioxane	- L	J - U		- U	31	- U	- U	- U
Acetone	- U	J - U		- U	25	13	14	- U
Benzene	- L	J 0.94		0.71	0.72	0.82	- U	- U
Carbon disulfide	- L	J 1.7		- U	44	2.1	- U	- U
Chloroethane	18	95		- U	2.2	71	- U	- U
Chloromethane	- L	J 1.4		1.2	1.3	1.2	1.1	1.0
m,p-Xylene	- L	J 3.4 U		- U	- U	- U	- U	- U
o-Xylene	- L	J 1.2 U		- U	- U	- U	- U	- U
Methyl Ethyl Ketone	- L	J - U		- U	5.2	2.6	2.1	1.6
n-Heptane	- L	J 1.1 U		0.81	- U	- U	- U	- U
n-Hexane	- L	J - U		1.8	- U	- U	- U	- U
Toluene	4.8	4.1		1.4	1.1	2.0	1.3	0.77
Trichlorofluoromethane	- L	J 1.4 U		1.1	1.2	1.2	1.1	- U
Trichloroethene	54	- U		- U	-	- U	- U	- U
Vinyl chloride	370	0.59		- U	9.6	0.73	3.1	- U
Total Detected VOCs (µg/m³)	2,214	142	0	7	123	95	25	3.4
Vacuum (inches Hg)	20	0.405	-	0.405	23	0.405	24	0.405
Air Flow Rate (acfm)	109	318	-	286	32	294	99.16	294.75
VOC discharge loading (lb/hr)	0.00090	0.00017	0	0.00001	0.000015	0.000104	0.000009	0.000004
LRP/AS Runtime (hours)	2352	2352	1488	2328	1368	2232	1800	1800
VOCs Removed (pounds)		2.53	0.	02	0.:	25	0.	02
Total VOCs Removed (pounds)			·		.82	·		

Notes:

- 1. μg/m³ = micrograms per cubic meter
- 2. acfm = actual cubic feet per minute
- 3. Hg = Mercury
- 4. lb/hr = pounds per hour
- 5. LRP Effluent represents the untreated vapor discharge for the Liquid Ring Pump.
- 6. AS Effluent represents the vapor discharge from the Air Stripper.

Combined DPE Remediation System Operation and Maintenance Schedule Former Scott Aviation Facility - West of Plant 2 NYSDEC Site Code No. 9-15-149 Lancaster, New York

Frequency	Operation and Maintenance Activity						
	Record System Operational Parameters						
Weekly	Inspect All Piping, Mechanical, and Electrical Components						
Check/Fill LRP Seal Fluid							
	Change Bag Filters/Clean Housings						
Quarterly	Clean System Components (KO Tank, Hold Tank, Air Stripper)						
	Replace LRP Seal Fluid						
Appually	Change KO Tank Filter						
Annually	Replace LRP Separator Element						
	Perform DPE Well and Conveyance Lines Scale Abatment Acitivity						

Notes:

DPE: Dual Phase Extraction

KO: Knockout

LRP: Liquid Ring Pump

Proposed Monitoring and Compliance Sampling Summary Former Scott Aviation Facility - West of Plant 2 NYSDEC Site Code No. 9-15-149 Lancaster, New York

					-	nalytical Param	eter				Comments	
Location/Type	Matrix	VOCs (aqueous)	TOC (aqueous)	MNA (aqueous)	VFA (aqueous)	Gene-Trac (aqueous)	TPH (aqueous)	TSS (aqueous)	pH (aqueous)	VOCs (vapor)		
Quarterly BSA Samplin	g - 4 Events											
Air Stripper Influent	aqueous	1	0	0	0	0	1	1	1	0	Four grabs over 8 hour process day	
Air Stripper Effluent	aqueous	1	0	0	0	0	1	1	1	0	Four grabs over 8 hour process day	
Trip Blank	aqueous	1	0	0	0	0	0	0	0	0	Quality Assurance/Quality Control	
Per Event		3	0	0	0	0	2	2	2	0		
Sub-Total		12	0	0	0	0	8	8	8	0		
Remedial Action Compliance Sampling Quarterly - 3 Events												
Primary Samples	aqueous	18	9	0	2	1	0	0	0	0	Wells: MW-2, MW-3, MW-4, MW-8R *, MW-11, MW-13S, MW-13D, MW-16S^, MW-16D, DPE-1. DPE-2. DPE-3. DPE-4. DPE-5. DPE-6. DPE-7. DPE-8. GWCT	
Duplicate	aqueous	1	0	0	0	0	0	0	0	0	Quality Assurance/Quality Control	
Trip Blank	aqueous	1	0	0	0	0	0	0	0	0	Quality Assurance/Quality Control	
Rinsate Blank	aqueous	1	0	0	0	0	0	0	0	0	Quality Assurance/Quality Control	
Air Stripper Effluent	air	0	0	0	0	0	0	0	0	1	Air Discharge Limit Compliance	
LRP Effluent	air	0	0	0	0	0	0	0	0	1	Air Discharge Limit Compliance	
Per Event		21	9	0	2*	1*	0	0	0	2		
Subtotal		63	27	0	2	1	0	0	0	6		
Annual Event - 1 Event												
Primary Samples	aqueous	23	14	0	2	1	0	0	0	0	Wells: MW-2, MW-3, MW-4, MW-8R *, MW-9, MW-11, MW-13S, MW-13D, MW-14S, MW-14D, MW-15S, MW-15M, MW-16S^, MW-16D, DPE-1, DPE-2, DPE-3, DPE-4, DPE-5, DPE-6, DPE-7, DPE-8, GWCT	
Subset Samples	aqueous	0	0	6	0	0	0	0	0	0	Wells: MW-4, MW-8R, MW-11, MW-13S, MW-16S, MW-16D	
Trip Blank	aqueous	1	0	0	0	0	0	0	0	0	Quality Assurance/Quality Control	
Duplicate	aqueous	1	0	0	0	0	0	0	0	0	Quality Assurance/Quality Control	
Rinsate Blank	aqueous	1	0	0	0	0	0	0	0	0	Quality Assurance/Quality Control	
Air Stripper Effluent	air	0	0	0	0	0	0	0	0	1	Air Discharge Limit Compliance	
LRP Effluent	air	0	0	0	0	0	0	0	0	1	Air Discharge Limit Compliance	
Subtotal		26	24	6	2	1	0	0	0	2	·	
Total		101	51	6	4	2	8	8	8	8		

Methods:

Volatile organic compounds (VOCs) by USEPA SW-846 Method 8260C (aqueous).

Total organic carbon (TOC) by USEPA SW-846 Method 9060A (aqueous); not to include DPE wells or GWCT.

Monitored natural attenuation (MNA) by RSK-175 (Methane, Ethane and Ethene) and by EPA Method 300.0 (Chloride). Note additional MNA analyses may be added.

Total extractable hydrocarbons (TPH) by 40 CFR 136 Method 160.2

Total suspended solids (TSS) by 40 CFR 136 Method 1664 pH by 40 CFR 136 Method 150.1

VOCs by USEPA Method TO-15 (air)

MW - Monitoring Well

DPE - Dual Phase Extraction

JPE - Dual Phase Extraction

GWCT - Groundwater Collection Trench

LRP - Liquid Ring Pump

* Volatile Fatty Acids (VFA) and Gene-Trac samples collected in October and April

* VFA sample

^ VFA and Gene-Trac sample

Table 16

Proposed Groundwater Monitoring Schedule - July 2022 through April 2023 Former Scott Aviation Facility - West of Plant 2 NYSDEC Site Code No. 9-15-149 Lancaster, New York

Event Date	Number of Locations Scheduled for Sampling	Locations Scheduled for Sampling						
Quarterly Groun	dwater Monitoring							
		MW-2	MW-3	MW-4	MW-8R			
		MW-11	MW-13S	MW-13D	MW-16S			
July 2022	18	MW-16D	DPE-1	DPE-2	DPE-3			
		DPE-4	DPE-5	DPE-6	DPE-7			
		DPE-8	GWCT					
		MW-2	MW-3	MW-4	MW-8R			
		MW-11	MW-13S	MW-13D	MW-16S			
October 2022	18	MW-16D	DPE-1	DPE-2	DPE-3			
		DPE-4	DPE-5	DPE-6	DPE-7			
		DPE-8	GWCT					
		MW-2	MW-3	MW-4	MW-8R			
		MW-11	MW-13S	MW-13D	MW-16S			
January 2023	18	MW-16D	DPE-1	DPE-2	DPE-3			
		DPE-4	DPE-5	DPE-6	DPE-7			
		DPE-8	GWCT					
Comprehensive	Annual Groundwater Monito	oring						
		MW-2	MW-3	MW-4	MW-8R			
		MW-9	MW-11	MW-13S	MW-13D			
April 2023	23	MW-14S	MW-14D	MW-15S	MW-15D			
Αριίι 2023	23	MW-16S	MW-16D	DPE-1	DPE-2			
		DPE-3	DPE-4	DPE-5	DPE-6			
		DPE-7	DPE-8	GWCT				

Notes:

MW-## - Monitoring Well MW-##S - Shallow Piezometer MW-##D - Deep Piezometer

DPE-## - Dual Phase Extraction Well

GWCT - Groundwater Collection Trench

Project number: 60676130-1

Appendix A Former Scott Aviation Plant 2 O&M Checklist

AECOM Technical Services, Inc. SCOTT AVIATION WEST OF PLANT 2 O&M CHECKLIST (updated 4/2021)

Date:		Weather:				
Time:		Field Technician Name:				
DPE Process Room						
DPE Wells (indicate if well is in operation)						
DPE-1		DPE-5				
DPE-2		DPE-6				
DPE-3		DPE-7				
DPE-4		DPE-8				
Comments:						
LRP Tank Exhaust Temperature -	°F_	LRP Flow Rate -	x1000 FPN			
LRP Filter Pressure -	PSI	KO Tank Vacuum -	"Hg			
LRP Oil Level -						
LRP Inlet Vacuum -	"Hg					
LRP Exhaust Temperature -	°F_					
LRP Hour Meter	HRS					
Comments:						
DPE Control Room						
LRP Hour Meter -	HRS					
KO Tank Hour Meter -	HRS					
Hold Tank Hour Meter -	HRS					
Comments:						
Groundwater Treatment Building						
GW Trench Totalizer	GAL	Air Stripper Vacuum -	"H ₂ C			
Air Stripper Effluent Flowrate -	GPM	Air Stripper Flow -	"H ₂ C			
Air Stripper Effluent Totalizer (T1) -	GAL	AS Flow Gauge -	SCFM			
Air Stripper Effluent Totalizer (T2) -	GAL					
Air Stripper Effluent Temperature -	°F_					
Comments:						

Appendix B April 2022 Groundwater Sampling Logs

Project number: 60676130-1

Date (mo/day/yr)	4/4/2	2022		Casing Diameter		2			inches
Field Personnel	Ann Marie	Kropovitch		Casing Material					
Site Name Fo	ormer Scott Aviation S	ite - Lancaster, NY		Measuring Point Eleva	ation		688.68		1/100 ft
Job#	606	376130		Height of Riser (above	e land surface)		3.38		1/100 ft
Well ID #	MW-2			Land Surface Elevatio	n	6	85.3		1/100 ft
Upgra	adient	Downgradient		Screened Interval (bel	Screened Interval (below land surface) 7-17				
Weather Conditions		loudy							
Air Temperature	perature 36				Analysis (Method) #	Bottles	Preservative	Dup - MS/MSD
Total Depth (TWD) Below Top of			1/100 ft	VOA 40 mL glass	TCL VOC	s (8260B)	3	HCL, 4°C	
Depth to Groundwater (DGW) Be	elow Top of Casing =	5.25	1/100 ft						
Length of Water Column (LWC)	Length of Water Column (LWC) = TWD - DGW = 11.15								
1 Casing Volume (OCV) = LWC	x <u>0.0408</u> =	0.5	gal						
3 Casing Volumes =	1.3	36	gal						
Method of Well Evacuation	Pe	eristaltic Pump							
Method of Sample Collection	Peristalt	ic Pump/Poly Tubing	J						
Total Volume of Water Removed 1.9									
				FIELD ANALYSES					
Flow Rate (ml/min)	200	200	200	200	200	200		200	200
Time (Military)	9:15	9:20	9:25	9:30	9:35	9:40		9:45	9:50
Depth to Groundwater Below Top of Casing (ft)	5.25	8.32	8.96	9.65	10.23	10.75		11.53	12.39
Drawdown (ft)	0.00	3.07	3.71	4.40	4.98	5.50		6.28	7.14
pH (S.U.)	6.62	6.62	6.80	6.68	6.64	6.65		6.62	6.62
Sp. Cond. (mS/cm)	1.677	1.673	1.126	0.890	1.029	1.346		1.573	1.631
Turbidity (NTUs)	17.35	20.66	82.31	61.08	85.13	40.60	6	67.07	89.49
Dissolved Oxygen (mg/L)	1.47	0.68	0.39	0.41	0.34	0.32		0.27	0.23
Water Temperature (°C)	9.70	9.50	9.20	8.50	8.70	8.90		9.3	9.5
ORP (mV)	-11.70	107.90	-96.80	-76.70	-80.80	-88.40	-	-93.9	-94.5
	Physical appeara	nce at start Col	lor <u>Clear</u>	Phy	sical appearance at	sampling Color	Clear		
		Ode	or None	<u> </u>		Odor	None		
	Sheen/Free Prod	uct	No	She	en/Free Product	No)		
COMMENTS/OBSERVATIONS	Sample time 09:50 hr	s. Purge start 09:12							
	YSI Pro SS meter (ID	# 51294) used to co	llect field paramete	rs.					

GROUNDWATER SAMPLING LOG

Date (mo/day/yr)	4/4/2	2022		Casing Diameter		2			inches
Field Personnel	Ann Marie	Kropovitch		Casing Material		PVC			
Site Name Fo	rmer Scott Aviation S	Site - Lancaster, NY		Measuring Point Eleva	ation		687.05		1/100 ft
Job #	60	676130		Height of Riser (above	land surface)		1.15		1/100 ft
Well ID #	MW-3	3		Land Surface Elevation	n	6	85.9		1/100 ft
Upgra	dient	Downgradient		Screened Interval (bel	Screened Interval (below land surface) 7.5 - 27.5				
Weather Conditions	Sunny/F	Partly cloudy							
Air Temperature	nperature 38			Container	Analysis (I	Method) #	Bottles	Preservative	Dup - MS/MSD
Total Depth (TWD) Below Top of	Casing =	28	1/100 ft	VOA 40 mL glass	TCL VOCs	(8260C)	3	HCL, 4°C	
Depth to Groundwater (DGW) Be	low Top of Casing =	8.24	1/100 ft						
Length of Water Column (LWC) =	TWD - DGW =	19.76	1/100 ft						
1 Casing Volume (OCV) = LWC x	0.0408 =	0.8	gal						
3 Casing Volumes =	2.4	42	gal						
Method of Well Evacuation	P	eristaltic Pump							
Method of Sample Collection	Peristalt	ic Pump/Poly Tubing							
Total Volume of Water Removed		2.1	gal						
			1	FIELD ANALYSES					
Flow Rate (ml/min)	225	225	225	225	225	225		225	225
Time (Military)	11:00	11:05	11:10	11:15	11:20	11:25		11:30	11:35
Depth to Groundwater Below Top of Casing (ft)	8.24	11.51	13.01	13.48	13.93	14.28		14.69	15.17
Drawdown (ft)	0.00	11.51	4.77	5.24	5.69	6.04		6.45	6.93
pH (S.U.)	7.07	7.05	7.05	7.03	7.00	6.99		7.00	7.03
Sp. Cond. (mS/cm)	1.163	1.160	1.160	1.158	1.159	1.155		1.155	1.163
Turbidity (NTUs)	11.98	9.40	3.79	6.60	4.81	3.51		4.19	5.42
Dissolved Oxygen (mg/L)	0.81	0.55	0.49	0.42	0.52	0.64		0.52	0.34
Water Temperature (°C)	9.0	9.0	8.9	9.0	9.2	9.3		9.0	9.2
ORP (mV)	-18.00	1.80	5.10	3.30	2.00	-2		-13.8	-34.8
	Physical appeara	ance at start Cold	or <u>Clear</u>	Phy	sical appearance at	sampling Color	Clear		
		Odd	or None	_		Odor	None		
	Sheen/Free Prod	luctN	lone	She	en/Free Product	Nor	ne		
COMMENTS/OBSERVATIONS	Sample time 13:55 h	rs. Purge start 10:56							
	YSI Pro SS meter (ID	# 51294) used to col	lect field parameter	rs.					

Date (mo/day/yr)	4/6/2	022		Casing Diameter		2				inches
Field Personnel	Ann Marie	Kropovitch		Casing Material			С			-
Site Name Fo	rmer Scott Aviation S	ite - Lancaster, NY		Measuring Point Eleva	ation		686.5			1/100 ft
Job#	606	76130		Height of Riser (above	land surface)		-0.3	39		1/100 ft
Well ID #	MW-4			Land Surface Elevation	n	(686.89			1/100 ft
Upgra	dient	Downgradient		Screened Interval (below land surface) 15.5 - 25.5						1/100 ft
Weather Conditions	C	loudy								
Air Temperature	48			Container	Analysis ((Method)	# Bottles	Preservat	ive Dup	- MS/MSD
Total Depth (TWD) Below Top of	Depth (TWD) Below Top of Casing = 26				TCL VOC	s (8260B)	3	HCL, 4°	С	
Depth to Groundwater (DGW) Be	Depth to Groundwater (DGW) Below Top of Casing = 7.42				MN	IA	multiple	Various	S	
Length of Water Column (LWC) =	TWD - DGW =	18.58	1/100 ft							
1 Casing Volume (OCV) = LWC x	0.0408 =	0.76	gal							
3 Casing Volumes =	2.2	27	gal							
Method of Well Evacuation	Pe	eristaltic Pump								
Method of Sample Collection	Peristalt	ic Pump/Poly Tubing								
Total Volume of Water Removed		2.3	gal							
				FIELD ANALYSES						
Flow Rate (ml/min)	250	250	250	250	250	250		250	25	0
Time (Military)	9:00	9:05	9:10	9:15	9:20	9:25		9:30	9:3	
Depth to Groundwater	9.00	9.05	9.10	9.15	9.20	9.25		9.30	9.3	5
Below Top of Casing (ft)	7.42	11.22	12.27	13.62	14.24	14.93		15.38	15.	92
Drawdown (ft)	0.00	3.80	4.85	6.20	6.82	7.51		7.96	8.5	0
pH (S.U.)	7.43	7.36	7.33	7.32	7.32	7.34		7.34	7.3	7
Sp. Cond. (mS/cm)	1.509	1.511	1.512	1.516	1.516	1.519		1.517	1.5	19
Turbidity (NTUs)	27.10	65.11	68.13	75.49	71.57	60.82		50.77	38.	21
Dissolved Oxygen (mg/L)	0.73	0.40	0.35	0.27	0.25	0.26		0.29	0.2	:6
Water Temperature (°C)	10.20	10.20	10.30	10.50	10.70	10.8		11.1	11	l
ORP (mV)	-159.70	-151.80	-148.00	-146.00	-146.00	-145.7		-143.5	-145	5.2
	Physical appeara	nce at start Col	or <u>Clear</u>	Phy	sical appearance at	sampling Cold	or <u>Clear</u>			
		Odd	or <u>None</u>	_		Odo	r <u>None</u>			
	Sheen/Free Prod	uct	None	She	en/Free Product	No	one			
COMMENTS/OBSERVATIONS	Sample time 09:45 hr	s. Purge start 08:57								
	YSI Pro SS meter (ID	# 51294) used to col	lect field paramete	rs.						

Date (mo/day/yr)	4/6/2	2022		Casing Diameter		4				inches
Field Personnel	Ann Marie	Kropovitch		Casing Material		PVC				
Site Name Fo	rmer Scott Aviation S	Site - Lancaster, NY		Measuring Point Eleva	tion		686.29			1/100 ft
Job#	600	676130		Height of Riser (above	land surface)		-0.2	29		1/100 ft
Well ID#	MW-8	₹		Land Surface Elevation	n	6	886.58			1/100 ft
Upgra	dient	Downgradient		Screened Interval (below land surface) 14 - 24					1/100 ft	
	onditions Cloudy									
Air Temperature	55			Container	Analysis (N	Method)	# Bottles	Preservat	tive Dup - M	IS/MSD
Total Depth (TWD) Below Top of	epth (TWD) Below Top of Casing = 27.5			VOA 40 mL glass	TCL VOCs	(8260B)	3	HCL, 4°	С	
Depth to Groundwater (DGW) Be	Depth to Groundwater (DGW) Below Top of Casing = 6.01			Various	MNA	A	multiple	Various	S	
Length of Water Column (LWC) =	ngth of Water Column (LWC) = TWD - DGW = 7.4			VOA 40 mL glass	VFA	A	2	None		
1 Casing Volume (OCV) = LWC x	0.0408 =	0.3	gal							
3 Casing Volumes =	0.0	91	gal							
Method of Well Evacuation	Pe	eristaltic Pump								
Method of Sample Collection	Peristalt	ic Pump/Poly Tubing								
Total Volume of Water Removed		2.3	gal							
				FIELD ANALYSES						
Flow Rate (ml/min)	250	250	250	250	250	250		250	250	$\overline{}$
Time (Military)	11:15	11:20	11:25	11:30	11:35	11:40		11:45	11:50	
Depth to Groundwater	11.10	11.20	11.20	11.50	11.00	11.40		11.40	11.00	
Below Top of Casing (ft)	6.01	8.23	9.21	9.81	11.02	12.31		12.79	13.26	
Drawdown (ft)	0.00	2.22	3.20	3.80	5.01	6.30		6.78	7.25	
pH (S.U.)	7.55	7.53	7.53	7.53	7.53	7.53		7.53	7.53	
Sp. Cond. (S/cm)	1.528	1.524	1.524	1.523	1.523	1.523		1.521	1.52	
Turbidity (NTUs)	58.10	62.87	81.20	93.37	94.79	96.7		97.3	98.05	
Dissolved Oxygen (g/L)	1.63	0.58	0.38	0.31	0.24	0.2		0.19	0.18	
Water Temperature (°C)	10.70	10.60	10.60	10.70	10.70	10.9		11	11	
ORP (mV)	-144.90	-154.00	-156.70	-158.00	-160.40	-161.2		-161.9	-162.3	
	Physical appeara	ince at start Col	or <u>Clear</u>	Phy	sical appearance at s	sampling Colo	r <u>Clear</u>	, 		
		Odd	or None	<u>_</u>		Odo	r <u>None</u>	:		
	Sheen/Free Prod	luctN	None	She	en/Free Product	No	ne			
COMMENTS/OBSERVATIONS	Sample time 12:00 hi	rs. Purge start 11:10								
	YSI Pro SS meter (ID	# 51294) used to col	lect field parameter	S.						

Date (mo/day/yr)	4/4/2	2022		Casing Diameter		2			inches
Field Personnel	Ann Marie	Kropovitch		Casing Material		PVC			
Site Name Fo	rmer Scott Aviation S	Site - Lancaster, NY		Measuring Point Eleva	ation		689.57		1/100 ft
Job#	60	676130		Height of Riser (above	land surface)		1.57		1/100 ft
Well ID#	MW-9)		Land Surface Elevation 688.0					1/100 ft
Upgra	dient	Downgradient		Screened Interval (below land surface) 3.5 - 23.5					1/100 ft
Weather Conditions				•					
Air Temperature	40			Container	Analysis (I	Method) #	Bottles	Preservative	Dup - MS/MSD
Total Depth (TWD) Below Top of	Casing =	23.5	1/100 ft	VOA 40 mL glass	TCL VOCs	(8260B)	3	HCL, 4°C	
Depth to Groundwater (DGW) Be	Depth to Groundwater (DGW) Below Top of Casing = 11.98								
Length of Water Column (LWC) =	ength of Water Column (LWC) = TWD - DGW = 11.52								
1 Casing Volume (OCV) = LWC x	0.0408 =	0.5	gal						
3 Casing Volumes =	1.	41	gal						
Method of Well Evacuation	P	eristaltic Pump							
Method of Sample Collection	Peristal	tic Pump/Poly Tubing							
Total Volume of Water Removed		2.3	gal						
				FIELD ANALYSES					
Flow Rate (ml/min)	250	250	250	250	250	250		250	250
Time (Military)	12:40	12:45	12:50	12:55	13:00	13:05		13:10	13:15
Depth to Groundwater	12.10	12.10	12.00	12.00	10.00	10.00		10.10	10.10
Below Top of Casing (ft)	11.98	13.02	13.33	13.62	14.06	14.50		14.76	15.42
Drawdown (ft)	0.00	1.04	1.35	1.64	2.08	2.52		2.78	3.44
pH (S.U.)	7.08	7.04	7.01	7.00	6.99	6.98		6.97	6.95
Sp. Cond. (mS/cm)	1.232	1.232	1.231	1.232	1.232	1.237		1.239	1.245
Turbidity (NTUs)	14.89	16.70	14.76	12.96	12.10	10.7		8.72	6.96
Dissolved Oxygen (mg/L)	4.82	4.54	3.97	3.86	4.11	4.73		5.02	5.05
Water Temperature (°C)	10.50	10.50	10.40	10.10	9.90	9.9		10	9.9
ORP (mV)	65.60	69.40	77.10	79.90	83.30	86.4		87.8	88.9
	Physical appeara	ance at start Cole	or <u>Clear</u>	Phy	sical appearance at	sampling Color	Clear		
		Odd	or None	<u> </u>		Odor	None		
	Sheen/Free Prod	luct	No	She	en/Free Product	No)		
COMMENTS/OBSERVATIONS	Sample time 13:15 h	rs. Purge start 12:3	7						
	YSI Pro SS meter (ID	# 51294) used to col	ect field parameter	rs.					

Date (mo/day/yr)	4/5/2	2022		Casing Diameter		2			inches
Field Personnel	Ann Marie	Kropovitch		Casing Material		PVC			
Site Name Fo	rmer Scott Aviation S	Site - Lancaster, NY		Measuring Point Eleva	ation		688.61		1/100 ft
Job#	600	676130		Height of Riser (above	land surface)		-0.2	6	1/100 ft
Well ID#	MW-1	1		Land Surface Elevatio			88.87		1/100 ft
Upgra	dient	Downgradient		Screened Interval (bel	Screened Interval (below land surface) 8.5 - 28.5				
Weather Conditions		Slight drizzle							
Air Temperature	mperature 42				Analysis (I	Method)	# Bottles	Preservati	ve Dup - MS/MSD
Total Depth (TWD) Below Top of	Casing =	28.5	1/100 ft	VOA 40 mL glass	TCL VOCs	(8260C)	3	HCL, 4°C	C Dup
Depth to Groundwater (DGW) Be	low Top of Casing =	9.29	1/100 ft	Various	MNA	Α	multiple	Various	
Length of Water Column (LWC) =	: TWD - DGW =	19.21	1/100 ft						
1 Casing Volume (OCV) = LWC x	0.0408 =	0.8	gal						
3 Casing Volumes =	2.0	35	gal						
Method of Well Evacuation	Pe	eristaltic Pump							
Method of Sample Collection	Peristalt	ic Pump/Poly Tubing							
Total Volume of Water Removed		2.3	gal						
				FIELD ANALYSES					
Flow Rate (ml/min)	250	250	250	250	250	250		250	250
Time (Military)	8:55	9:00	9:05	9:10	9:15	9:20		9:25	9:30
Depth to Groundwater Below Top of Casing (ft)	9.29	9.91	10.32	10.77	10.96	11.13		11.32	11.46
Drawdown (ft)	0.00	0.62	1.03	1.48	1.67	1.84		2.03	2.17
pH (S.U.)	6.46	6.49	6.50	6.51	6.51	6.51		6.52	6.53
Sp. Cond. (mS/cm)	5.340	5.199	5.187	5.116	5.114	5.093		4.997	4.845
Turbidity (NTUs)	20.34	5.91	5.02	4.21	4.08	3.82		3.25	3.21
Dissolved Oxygen (mg/L)	1.23	0.71	0.54	0.31	0.27	0.25		0.22	0.2
Water Temperature (°C)	11.40	11.30	11.30	11.30	11.20	11.3		11.4	11.4
ORP (mV)	7.86	-35.90	-37.20	-39.10	-40.60	-42.3		-44.6	-46.2
	Physical appeara	ance at start Col	or <u>Clear</u>	Phy	sical appearance at	sampling Colo	r <u>Clear</u>		
		Odd	or <u>None</u>	<u>_</u>		Odoi	r <u>None</u>		
	Sheen/Free Prod	luct	No	She	en/Free Product	N	o		
COMMENTS/OBSERVATIONS	Sample time 09:45 hi	rs. Purge Start 08:50	FD on VOCs o	nly					_
	YSI Pro SS meter (ID	# 51294) used to col	lect field parameter	rs.					

Date (mo/day/yr)	4/5/2	2022		Casing Diameter		1			inches
Field Personnel		Kropovitch		Casing Material					
Site Name Fo	ormer Scott Aviation S	Site - Lancaster, NY		Measuring Point Eleva	tion		685.74		1/100 ft
Job#	600	676130		Height of Riser (above	land surface)		-0.50)	1/100 ft
Well ID #	MW-13	3S		Land Surface Elevation	ı	68	36.24		1/100 ft
Upgra	dient	Downgradient		Screened Interval (belo	ow land surface)		8.5-16	6.5	1/100 ft
Weather Conditions	Sun/so	ome clouds							
Air Temperature	° F	Container	Analysis (N	Method) #	Bottles	Preservative	Dup - MS/MSD		
Total Depth (TWD) Below Top of	Casing =	1/100 ft	VOA 40 mL glass	TCL VOCs	(8260B)	3	HCL, 4°C		
Depth to Groundwater (DGW) Be	low Top of Casing =	2.62	1/100 ft	Various	MNA	A r	multiple	Various	
Length of Water Column (LWC) =	: TWD - DGW =	13.88	1/100 ft						
1 Casing Volume (OCV) = LWC x	0.0408 =	0.6	gal						
3 Casing Volumes =	1.7	70	gal						
Method of Well Evacuation	Pe	eristaltic Pump							
Method of Sample Collection	Peristalt	ic Pump/Poly Tubing							
Total Volume of Water Removed		2.1	gal						
			F	FIELD ANALYSES					
Flow Rate (ml/min)	225	225	225	225	225	225		225	225
Time (Military)	14:00	14:05	14:10	14:15	14:20	14:25		14:30	14:35
Depth to Groundwater Below Top of Casing (ft)	2.62	8.54	9.11	9.65	9.98	10.43		11.16	11.81
Drawdown (ft)	0.00	5.92	6.49	7.03	7.36	7.81		8.54	9.19
pH (S.U.)	7.02	7.12	7.34	7.34	7.21	7.12		7.12	7.02
Sp. Cond. (mS/cm)	1.385	1.369	1.372	1.384	1.388	1.392		1.393	1.395
Turbidity (NTUs)	34.29	86.10	100.20	259.30	173.80	110.8		93.7	64
Dissolved Oxygen (mg/L)	109.00	0.39	0.26	0.19	0.16	0.14		0.13	0.12
Water Temperature (°C)	10.40	10.20	10.60	10.80	10.70	10.9		10.9	11.2
ORP (mV)	-125.90	-133.20	-156.80	-164.80	-153.60	-139.3		-128.6	-122
	Physical appeara	nce at start Col	or Clear	Phys	sical appearance at s	sampling Color	Clear		
		Od	or None	_		Odor	None		
	Sheen/Free Prod	uct	No	She	en/Free Product	No)		
COMMENTS/OBSERVATIONS	Sample time 14:40 hr	s. Purge Start 13:55							
	YSI Pro SS meter (ID:	# 51294) used to coll	ect field parameters	S					

Date (mo/day/yr)	4/5/2	2022		Casing Diameter		1			inches
Field Personnel	Ann Marie	Kropovitch		Casing Material					<u> </u>
Site Name Fo	ormer Scott Aviation S	Site - Lancaster, NY		Measuring Point Eleva	ation		685.88		1/100 ft
Job #	600	676130		Height of Riser (above	e land surface)		-0.3	36	1/100 ft
Well ID #	MW-13	D		Land Surface Elevatio	Land Surface Elevation 686.24				
Upgra	ndient	Downgradient		Screened Interval (bel	ow land surface)		19.5-2	23.5	1/100 ft
Weather Conditions	S	Sunny							
Air Temperature	ature 63			Container	Analysis (I	Method)	# Bottles	Preservat	tive Dup - MS/MSD
Total Depth (TWD) Below Top of	Casing =	23.5	1/100 ft	VOA 40 mL glass	TCL VOCs	(8260B)	3	HCL, 4°	С
Depth to Groundwater (DGW) Be	low Top of Casing =	7.64	1/100 ft						
Length of Water Column (LWC) =	= TWD - DGW =	15.86	1/100 ft						
1 Casing Volume (OCV) = LWC	0.0408 =	0.6	gal						
3 Casing Volumes =	1.9	94	gal						
Method of Well Evacuation	Pe	eristaltic Pump							
Method of Sample Collection	Peristalt	ic Pump/Poly Tubing							
Total Volume of Water Removed 2.1									
			F	FIELD ANALYSES					
Flow Rate (ml/min)	225	225	225	225	225	225		225	225
Time (Military)	15:25	15:30	15:35	15:40	15:45	15:50		15:55	16:00
Depth to Groundwater Below Top of Casing (ft)	7.64	12.26	14.81	15.52	17.11	183.18		18.57	19.45
Drawdown (ft)	0.00	4.62	7.17	7.88	9.47	175.54		10.93	11.81
pH (S.U.)	7.33	7.26	7.26	7.26	7.26	7.24		7.23	7.23
Sp. Cond. (mS/cm)	1.521	1.509	1.510	1.511	1.514	1.518		1.517	1.519
Turbidity (NTUs)	50.94	63.20	149.70	156.30	142.80	135.7		130.40	121.5
Dissolved Oxygen (mg/L)	1.12	0.31	0.22	0.13	0.11	0.1		0.08	0.07
Water Temperature (°C)	12.30	11.70	12.00	12.70	12.60	12.7		12.8	12.8
ORP (mV)	-100.60	-107.90	-105.90	-114.30	-116.30	-120.2		-122.5	-224.2
	Physical appeara	nce at start Cole	or <u>Clear</u>	Phy	sical appearance at	sampling Colo	r <u>Clear</u>	-	
		Odd	or <u>None</u>	_		Odo	None	<u> </u>	
	Sheen/Free Prod	uct	No	She	een/Free Product	N	0		
COMMENTS/OBSERVATIONS	Sample time 16:05 hr	s. Purge start 15:22							
	YSI Pro SS meter (ID:	# 51294) used to colle	ect field parameters	S.					

Date (mo/day/yr)	4/4/2	2022		Casing Diameter		1		inches
Field Personnel		Kropovitch		Casing Material				
Site Name Fo	ormer Scott Aviation S	Site - Lancaster, NY		Measuring Point Eleva			85.65	1/100 ft
Job#	600	676130		Height of Riser (above	e land surface)			1/100 ft
Well ID #	MW-14	S		Land Surface Elevation			5.93	1/100 ft
Upgra	dient	Downgradient		Screened Interval (be	Screened Interval (below land surface) 8.5-16.5			
Weather Conditions	Sun/Pa	artly Cloudy						
Air Temperature	45			Container	Analysis (Method) #	Bottles Preserva	ative Dup - MS/MSD
Total Depth (TWD) Below Top of	pth (TWD) Below Top of Casing = 16.5 1/100							
Depth to Groundwater (DGW) Be	Depth to Groundwater (DGW) Below Top of Casing = 4.45 1/10							
Length of Water Column (LWC) =	: TWD - DGW =	12.05	1/100 ft					
1 Casing Volume (OCV) = LWC x								
3 Casing Volumes =	1.4	47	gal					
Method of Well Evacuation	Pe	eristaltic Pump						
Method of Sample Collection	Peristalt	ic Pump/Poly Tubing						
Total Volume of Water Removed	tal Volume of Water Removed 2.1 gal							
				FIELD ANALYSES				
Flow Rate (ml/min)	225	225	225	225	225	225	225	225
Time (Military)	14:35	14:40	14:45	14:50	14:55	15:00	15:05	15:10
Depth to Groundwater								
Below Top of Casing (ft)	4.45	9.34	9.67	9.98	10.39	10.69	11.22	11.44
Drawdown (ft)	0.00	4.89	5.22	5.53	5.94	6.24	6.77	6.99
pH (S.U.)	7.08	6.97	6.93	6.92	6.91	6.9	6.89	9.89
Sp. Cond. (S/cm)	1.282	1.207	1.230	1.240	1.247	1.252	1.257	1.263
Turbidity (NTUs)	17.30	11.85	7.37	18.51	5.64	4.39	3.28	3.25
Dissolved Oxygen (g/L)	1.40	2.53	0.89	0.37	0.25	0.2	0.17	0.15
Water Temperature (°C)	9.50	8.70	8.80	8.80	8.80	8.9	8.9	9
ORP (mV)	60.90	-2.60	11.20	11.10	13.70	18.2	21.3	19.3
	Physical appeara	nce at start Col	or <u>Clear</u>	_ Phy	sical appearance at	sampling Color	Clear	
		Ode	or <u>None</u>	_		Odor	None	
	Sheen/Free Prod	uct	No	She	een/Free Product	No		
COMMENTS/OBSERVATIONS	Sample time 15:10 hr	s. Purge start 14:31						
	YSI Pro SS meter (ID:	# 51294) used to colle	ect field parameters	S				

Date (mo/day/yr)	4/4/2	2022		Casing Diameter		1			inches
Field Personnel					PVC				
Site Name Fo	rmer Scott Aviation S	Site - Lancaster, NY		Measuring Point Eleva			685.84		1/100 ft
Job#	60	676130		Height of Riser (above	land surface)				1/100 ft
Well ID #	MW-14	ID.		Land Surface Elevation	n				1/100 ft
Upgrad	dient	Downgradient		Screened Interval (belo	ow land surface)		18.5-23	3.5	1/100 ft
Weather Conditions	C	loudy							
Air Temperature				Container	Analysis (N	Method) #	Bottles	Preservative	Dup - MS/MSD
Total Depth (TWD) Below Top of 0	Casing =	23.5	1/100 ft	VOA 40 mL glass	TCL VOCs	(8260B)	3	HCL, 4°C	
Depth to Groundwater (DGW) Bel	ow Top of Casing =	15.72	1/100 ft						
Length of Water Column (LWC) =	TWD - DGW =	7.78	1/100 ft						
1 Casing Volume (OCV) = LWC x	0.0408 =	0.3	gal						
3 Casing Volumes =	0.0	95	gal						
Method of Well Evacuation	P	eristaltic Pump							
Method of Sample Collection	Peristalt	ic Pump/Poly Tubing							
Total Volume of Water Removed		1.9	gal						
			F	FIELD ANALYSES					
Flow Rate (ml/min)	200	200	200	200	200	200		200	200
Time (Military)	15:40	15:45	15:50	15:55	16:00	16:05		16:10	16:15
Depth to Groundwater Below Top of Casing (ft)	15.72	19.13	19.15	19.06	19.16	19.28		19.4	19.51
Drawdown (ft)	0.00	3.41	3.43	3.34	3.44	3.56		3.68	3.79
pH (S.U.)	7.12	7.14	7.13	7.11	7.10	7.1		7.1	7.1
Sp. Cond. (mS/cm)	1.190	1.106	1.056	1.115	1.159	1.179		1.18	1.181
Turbidity (NTUs)	25.57	16.32	11.90	6.88	6.32	2.98		2.27	2.55
Dissolved Oxygen (mg/L)	1.09	0.49	0.33	0.27	0.21	0.18		0.16	0.15
Water Temperature (°C)	10.80	10.90	10.70	10.80	10.70	10.7		10.7	10.7
ORP (mV)	-92.40	-93.60	-94.80	-97.10	-100.10	-102		-103.4	-104.5
	Physical appeara	nce at start Col	or <u>Clear</u>	Phys	sical appearance at s	sampling Color	Clear		
		Odd	or <u>None</u>	_		Odor	None		
	Sheen/Free Prod	uct	No	She	en/Free Product	No)		
COMMENTS/OBSERVATIONS	Sample time 16:20 hr	s. Purge start 1537							
	YSI Pro SS meter (ID	# 51294) used to colle	ect field parameters	S.					

Casing Material PVC	Date (mo/day/yr)	4/5/2	2022		Casing Diameter		1				inches
Mile	Field Personnel	sonnel Ann Marie Kropovitch (asing Material PVC					
MW-15S	Site Name Fo	ormer Scott Aviation S	Site - Lancaster, NY		Measuring Point Eleva	tion		687.52			1/100 ft
MW-15S	Job#	60	676130		Height of Riser (above	land surface)		-0.3	33		1/100 ft
Temperature S2	Well ID #	MW-15	is					37.85			1/100 ft
Temperature 52	Upgra	adient	Downgradient		Screened Interval (belo	ow land surface)		12-	18		1/100 ft
Depth (TWD) Below Top of Casing = 18	Weather Conditions	C	loudy								
## 17/10 ft 1/10 ft 1/	Air Temperature	52		°F	Container	Analysis (N	Method) #	Bottles	Preservative	e Dup -	MS/MSD
Personation Casing Volume COUV = LWC x 0.0408 = 0.702168 gal	Total Depth (TWD) Below Top of	Casing =	18	1/100 ft	VOA 40 mL glass	TCL VOCs	(8260B)	3	HCL, 4°C		
Casing Volume (OCV) = LWC x	Depth to Groundwater (DGW) Be	low Top of Casing =	0.79	1/100 ft							
Casing Volumes = 2.11	Length of Water Column (LWC) =	= TWD - DGW =	17.21	1/100 ft							
Peristaltic Pump/Poly Tubing Peristaltic Pump/Poly Tubing Tubin	1 Casing Volume (OCV) = LWC >	0.0408 =	0.702168	gal							
Peristattic Pump/Poly Tubing 1.9 gal	3 Casing Volumes =	2.	11	gal							
Second S	Method of Well Evacuation	P	eristaltic Pump								
Second Color Col	Method of Sample Collection	Peristal	ic Pump/Poly Tubing								
Now Rate (ml/min) 200 20	Total Volume of Water Removed		1.9	gal							
Now Rate (ml/min) 200 20					FIFI D ANAI YSES						
11:00	Flow Rate (ml/min)	200	200			200	200		200	200	
epth to Groundwater elow Top of Casing (ft) rawdown (ft) H (S.U.) p. Cond. (mS/cm) urbidity (NTUs) aissolved Oxygen (mg/L) //ater Temperature (°C) Physical appearance at start Physical appearance at start Color Odor None 3.14 3.27 3.29 3.29 3.29 3.29 3.44 3.27 3.29 3.29 3.44 3.27 3.29 3.29 3.44 3.27 3.29 3.29 3.44 3.27 3.29 3.29 3.44 3.27 3.29 3.29 3.44 3.27 3.29 3.44 4.55 4.65 4.65 4.65 4.65 4.65 4.75 4	Time (Military)	11:00	11:05	11:10	11:15	11:20	11:25		11:30	11:35	;
rawdown (ft)	Depth to Groundwater										
H (S.U.) 12.02 12.22 12.25 12.26 12.25 12.26 12.25 12.26 12.27 12.28 12.26 12.26 12.26 12.26 12.26 12.26 12.26 12.26 12.26 12.27 12.28 12.26	Drawdown (ft)										
p. Cond. (mS/cm) 1.840 2.204 2.279 2.232 2.367 2.389 2.422 2.43 urbidity (NTUs) 30.17 5.93 6.75 8.52 11.20 20.12 34.20 61.04 issolved Oxygen (mg/L) 4.47 0.32 0.20 0.15 0.11 0.09 0.06 0.04 Alter Temperature (°C) 10.50 10.60 10.60 10.60 10.50 10.90 10.80 10	pH (S.U.)	12.02	12.22	12.25	12.26	12.25	12.26		12.27	12.27	,
1.47 0.32 0.20 0.15 0.11 0.09 0.06 0.04 /ater Temperature (°C) 10.50 10.60 10.60 10.50 10.90 10.80 10.80 10.80 Physical appearance at start Color Clear Physical appearance at sampling Color Clear Color	Sp. Cond. (mS/cm)	1.840	2.204	2.279	2.232	2.367	2.389		2.422	2.43	
Vater Temperature (°C) 10.50 10.60 10.50 10.50 10.90 10.80 10.80 10.80 IRP (mV) -228.6 -264.6 -282.5 -291.2 -307.9 -311.8 -326.6 -338.7 Physical appearance at start Color Clear Physical appearance at sampling Color Clear Odor None Odor None	Turbidity (NTUs)	30.17	5.93	6.75	8.52	11.20	20.12		34.20	61.04	
Physical appearance at start	Dissolved Oxygen (mg/L)	1.47	0.32	0.20	0.15	0.11	0.09		0.06	0.04	
Physical appearance at start Color Clear Physical appearance at sampling Color Clear Odor None Odor None	Water Temperature (°C)	10.50	10.60	10.60	10.50	10.90	10.80		10.80	10.80)
Odor None Odor None	ORP (mV)	-228.6	-264.6	-282.5	-291.2	-307.9	-311.8		-326.6	-338.7	7
		Physical appeara	nce at start Col	or <u>Clear</u>	Phy	sical appearance at s	sampling Color	Clear	-		
Sheen/Free Product No Sheen/Free Product No			Odd	or None			Odor	None	ı	_	
		Sheen/Free Prod	uct	No	She	en/Free Product	No.)			
OMMENTS/OBSERVATIONS Sample time 11:40 hrs. Purge start 10:53	COMMENTS/OBSERVATIONS	Sample time 11:40 hr	s. Purge start 10:53					-			
YSI Pro SS meter (ID# 51294) used to collect field parameters.		YSI Pro SS meter (ID	# 51294) used to colle	ect field parameters	S						

Date (mo/day/yr)	4/5/2	2022		Casing Diameter		1			inches
Field Personnel					Casing Material PVC				
Site Name Fo	rmer Scott Aviation S	Site - Lancaster, NY		Measuring Point Eleva	ation	6	687.62		1/100 ft
Job#	606	676130		Height of Riser (above	e land surface)		-0.27		1/100 ft
Well ID #	MW-15	iD .		Land Surface Elevatio	n	68	7.89		1/100 ft
Upgrad	dient	Downgradient		Screened Interval (bel	ow land surface)		21-25		1/100 ft
Weather Conditions		y Cloudy							
Air Temperature	57		° F	Container	Analysis (I	Method) #	Bottles Pre	servative	Dup - MS/MSD
Total Depth (TWD) Below Top of	Casing =	25	1/100 ft	VOA 40 mL glass	TCL VOCs	(8260B)	3	4°C	
Depth to Groundwater (DGW) Bel	ow Top of Casing =	10.94	1/100 ft						
Length of Water Column (LWC) =	TWD - DGW =	14.06	1/100 ft						
1 Casing Volume (OCV) = LWC x	0.0408 =	0.6	gal						
3 Casing Volumes =	1.7	72	gal						
Method of Well Evacuation	Pe	eristaltic Pump							
Method of Sample Collection	Peristalt	ic Pump/Poly Tubing							
Total Volume of Water Removed		1.9	gal						
			F	FIELD ANALYSES					
Flow Rate (ml/min)	200	200	200	200	200	200	200		200
Time (Military)	12:05	12:10	12:15	12:20	12:25	12:30	12:35		12:40
Depth to Groundwater Below Top of Casing (ft)	10.94	11.26	11.30	11.33	11.35	11.36	11.35		11.35
Drawdown (ft)	0.00	0.32	0.36	0.39	0.41	0.42	0.41		0.41
pH (S.U.)	8.68	8.10	7.96	7.89	7.85	7.62	7.78		7.78
Sp. Cond. (mS/cm)	0.990	0.986	1.024	1.082	1.163	1.248	1.359		1.391
Turbidity (NTUs)	5.51	2.05	6.15	12.95	19.55	23.26	31.85		36.14
Dissolved Oxygen (mg/L)	2.69	0.51	0.28	0.20	0.16	0.14	0.12		0.11
Water Temperature (°C)	12.60	12.60	12.70	12.70	12.80	12.80	12.90		12.8
ORP (mV)	-165.80	-182.90	-183.00	-184.10	-184.90	-185.3	-185.8		-186.2
	Physical appeara	nce at start Col	or <u>Clear</u>	Phy	sical appearance at	sampling Color	Clear		
		Odd	or <u>None</u>	_		Odor	None	_	
	Sheen/Free Produ	uct	No	She	een/Free Product	No		_	
COMMENTS/OBSERVATIONS	Sample time 12:45 hrs	s. Purge start 12:01							
	YSI Pro SS meter (ID:	# 51294) used to colle	ect field parameters	S.					

Date (mo/day/yr)	4/5/2	2022		Casing Diameter			1		inches
Field Personnel	Ann Marie	Kropovitch		Casing Material PVC					
Site Name Fo	rmer Scott Aviation S	Site - Lancaster, NY		Measuring Point Eleva	ation		688.15		1/100 ft
Job#	600	676130		Height of Riser (above	land surface)		2.4	6	1/100 ft
Well ID #	MW-16	SS		Land Surface Elevation	n		685.69		1/100 ft
Upgra	dient	Downgradient		Screened Interval (belo	ow land surface)		12 -	18	1/100 ft
Weather Conditions	Cloud	dy/Windy							
Air Temperature	64		° F	Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
Total Depth (TWD) Below Top of	Casing =	15.4	1/100 ft	VOA 40 mL glass	TCL VOCs	(8260C)	3	HCL, 4°C	
Depth to Groundwater (DGW) Bel	ow Top of Casing =	6.40	1/100 ft	Various	MN	Α	multiple	Various	
Length of Water Column (LWC) =	TWD - DGW =	6.71	1/100 ft	1 L	Gen-	Ггас	1	None	
1 Casing Volume (OCV) = LWC x	0.0408 =	0.3	gal	VOA 40 mL glass	VF.	A	2	None	
3 Casing Volumes =	0.0	32	gal						
Method of Well Evacuation	Pe	eristaltic Pump							
Method of Sample Collection	Peristalt	ic Pump/Poly Tubing							
Total Volume of Water Removed		0.5	gal						
			F	FIELD ANALYSES					
Flow Rate (ml/min)	200	200	200	12257117121020					
Time (Military)	13:35	13:40	13:45						
Depth to Groundwater Below Top of Casing (ft)	6.40	12.52	14.22						
Drawdown (ft)	0.00	6.12	7.82						
pH (S.U.)	6.72	6.66	6.65						
Sp. Cond. (mS/cm)	2.981	2.979	2.975						
Turbidity (NTUs)	44.36	69.54	61.68						
Dissolved Oxygen (mg/L)	0.89	0.48	0.27						
Water Temperature (°C)	11.00	11.00	11.50						
ORP (mV)	-90.80	-91.30	-101.20						
	Physical appeara	nce at start Col	or Light Gray	Phy	sical appearance at	sampling Co	olor <u>Clear</u>	<u> </u>	
		Odd	or <u>None</u>	_		Od	lor <u>None</u>	<u> </u>	
	Sheen/Free Product None Sheen/Free Product None								
COMMENTS/OBSERVATIONS	Sample time 14:50 hr	s. Purge start 13:30	Well went dry after	er 13:45 - sampling occur	red after well rechar	ged			_
	YSI Pro SS meter (ID:	# 51294) used to colle	ect field parameters	S					

Date (mo/day/yr)	4/6.	/2022		Casing Diameter		1			inches
Field Personnel	Ann Marie Kropovitch			Casing Material		PVC			
		Site - Lancaster, NY		Measuring Point Eleva	tion		688.16		1/100 ft
Job#	60	0676130		Height of Riser (above	land surface)		2.4	7	1/100 ft
Well ID #	MW-1	6D		Land Surface Elevation	n	6	85.69		1/100 ft
Upgra	dient	Downgradient		Screened Interval (belo	ow land surface)		20-2	24	1/100 ft
Weather Conditions	Cloudy	y/Slight Wind							
Air Temperature	64			Container	Analysis (l	Method) #	# Bottles	Preservative	Dup - MS/MSD
Total Depth (TWD) Below Top of			1/100 ft	VOA 40 mL glass	TCL VOCs	(8260B)	3	HCL, 4°C	
Depth to Groundwater (DGW) Be	low Top of Casing =	10.1	1/100 ft	Various	MN	A	multiple	Various	
Length of Water Column (LWC) =	TWD - DGW =	13.9	1/100 ft						
1 Casing Volume (OCV) = LWC x	0.0408 =	0.6	gal						
3 Casing Volumes =	1	.70	gal						
Method of Well Evacuation	F	Peristaltic Pump							
Method of Sample Collection	Perista	ltic Pump/Poly Tubing							
Total Volume of Water Removed		1.9	gal						
			F	FIELD ANALYSES					
Flow Rate (ml/min)	200	200	200	200	200	200		200	200
Time (Military)	14:05	14:10	14:15	14:20	14:25	14:30		14:35	14:40
Depth to Groundwater Below Top of Casing (ft)	10.10	13.35	14.22	15.01	15.41	15.75		16.32	16.65
Drawdown (ft)	0.00	3.25	4.12	4.91	5.31	5.65		6.22	6.55
pH (S.U.)	7.32	7.65	7.63	7.61	7.54	7.52		7.5	7.46
Sp. Cond. (mS/cm)	2.154	1.755	1.632	1.580	1.571	1.552		1.537	1.54
Turbidity (NTUs)	13.69	17.46	27.84	43.00	63.08	75.76		60.31	77.34
Dissolved Oxygen (g/L)	1.46	0.59	0.40	0.15	0.12	0.1		0.09	0.08
Water Temperature (°C)	12.70	13.20	13.20	13.20	13.20	13.5		13.70	13.70
ORP (mV)	-125.50	-151.90	-158.70	-165.70	-163.20	-162.40		-160.50	-157.40
	Physical appear	ance at start Col	or <u>Clear</u>	Phys	sical appearance at	sampling Color	Clear		
		Odd	or <u>None</u>	_		Odor	None		
	Sheen/Free Pro	duct	No	She	en/Free Product	No	0		
COMMENTS/OBSERVATIONS	Sample time 14:50 h	rs. Purge start 14:50							
	YSI Pro SS meter (II	O# 51294) used to colle	ect field parameters	S.					

Elevations

Appendix C Current and Historical Summary of Groundwater

Project number: 60676130-1

MONITORING WELL MW-2 SUMMARY OF GROUNDWATER ELEVATIONS Former Scott Aviation Site - West of Plant 2 Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
11/7/2003	7.29	683.06
4/8/2004	NM	NA
10/12/2004	NM	NA
1/6/2005	5.92	684.43
4/14/2005	6.50	683.85
7/20/2005	7.77	682.58
10/4/2005	6.08	684.27
1/5/2006	9.56	680.79
4/11/2006	6.65	683.70
7/10/2006	7.79	682.56 684.24
10/18/2006 1/9/2007	6.11 6.27	684.08
2/28/2007	5.20	685.15
4/16/2007	5.99	684.36
7/2/2007	7.22	683.13
10/15/2007	8.15	682.20
1/8/2008	5.73	684.62
4/2/2008	5.95	684.40
7/1/2008	4.90	685.45
9/30/2008	7.40	682.95
1/19/2009	6.75	683.60
4/14/2009 7/21/2009	6.15 6.25	684.20 684.10
10/14/2009	6.25 5.85	684.50
1/18/2010	7.00	683.35
4/8/2010	5.45	684.90
7/12/2010	6.10	684.25
10/11/2010	7.00	683.35
1/11/2011	6.80	683.55
4/4/2011	5.70	684.65
7/25/2011	4.75	685.60
10/3/2011	4.13	686.22
1/12/2012	6.40	683.95
4/2/2012	6.00	684.35
7/5/2012 10/11/2012	6.47 7.17	683.88 683.18
1/21/2013	6.72	683.63
4/1/2013	6.10	684.25
7/1/2013	6.84	683.51
10/9/2013	6.70	683.65
1/21/2014	6.00	684.35
4/7/2014	4.95	685.40
7/16/2014	6.72	683.63
10/14/2014	6.79	683.56
1/20/2015	7.12	683.23
4/6/2015	5.74	684.61
7/22/2015	6.19 5.79	684.16 684.56
10/19/2015 1/5/2016	5.79 6.41	684.56 683.94
4/4/2016	5.68	681.42
7/5/2016	5.56	683.12
10/24/2016	5.56	683.12
1/16/2017	6.21	682.47
4/18/2017	6.06	682.47
7/11/2017	6.92	681.76
10/23/2017	6.59	682.09
1/8/2018	6.61	680.39
4/11/2018	5.12	681.88
7/12/2018	6.71 6.44	680.29
10/19/2018		680.56 681.35
1/9/2019 4/8/2019	5.65 5.28	681.35 681.72
7/22/2019	6.30	680.70
10/14/2019	7.56	679.44
1/6/2020	7.39	679.61
4/6/2020	7.40	679.60
7/21/2020	6.10	680.90
10/13/2020	6.50	680.50
1/19/2021	6.53	680.47
4/6/2021	5.56	681.44
7/13/2021	6.80	680.20
10/18/2021	5.97	681.03
1/18/2022 4/4/2022	6.07 5.25	680.93 681.75
4/4/2022	5.25	681.75

NOTES: ft MSL - feet mean sea level

tt MSL - teet mean sea lev NA - Not Available NM - Not Measured TOC - top of PVC casing TOC Elevation - 690.35

DPE and GWCT off line for repairs in February 2007.
DPE off line for repairs in January 2008.
DPE off line for repairs in October 2013.

TOC Elevation re-measured June 13, 2008 at 687.1.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

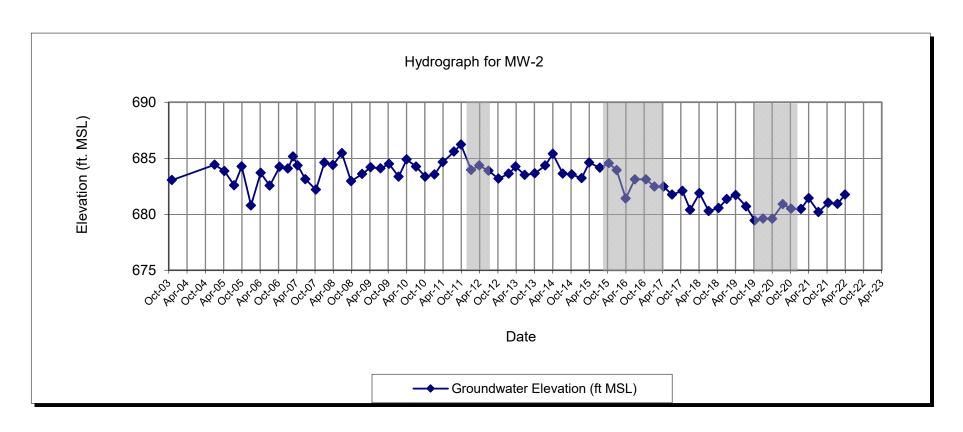
Oxidation rigiduoling plot test (trote shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line between November 2018 and March 2020 to accommodate ABC+ OLE injection pilot test (note shading on graph).

DPE-3, -4, -6, -7, -8 off line beginning September 2021 to accommodate bioaugmentation injection.

MONITORING WELL MW-2 SUMMARY OF GROUNDWATER ELEVATIONS



MONITORING WELL MW-3 SUMMARY OF GROUNDWATER ELEVATIONS Former Scott Aviation Site - West of Plant 2 Lancaster, New York

		Groundwater Elevation (ft
Date	Depth to Water from TOC (ft)	MSL)
11/7/2003 4/8/2004	12.76 NM	674.96 NA
10/12/2004	NM	NA NA
1/6/2005	11.65	676.07
4/14/2005	12.64	675.08
7/20/2005	12.73	674.99
10/4/2005 1/5/2006	7.38 11.31	680.34 676.41
4/11/2006	11.84	675.88
7/10/2006	12.31	675.41
10/18/2006	10.82	676.9
1/9/2007 2/28/2007	10.99 3.99	676.73 683.73
4/16/2007	11.87	675.85
7/2/2007	13.35	674.37
10/17/2007	13.1	674.62
1/8/2008 4/2/2008	7.61 11.71	680.11 676.01
7/1/2008	10.75	676.27
9/30/2008	11.95	675.07
1/19/2009	10.94	676.08
4/14/2009 7/21/2009	10.94 11.51	676.08
10/14/2009	10.75	675.51 676.27
1/18/2010	12.38	674.64
4/8/2010	11.02	676.00
7/12/2010	9.18	677.84
10/11/2010 1/12/2011	10.9 11.3	676.12 675.72
4/4/2011	10.7	676.32
7/25/2011	4.38	682.64
10/3/2011	3.14	683.88
1/12/2012 4/2/2012	10.65 9.81	676.37 677.21
7/5/2012	8.56	678.46
10/11/2012	9.77	677.25
1/21/2013	11.15	675.87
4/1/2013 7/1/2013	8.56 11.85	678.46 675.17
10/9/2013	10.43	676.59
1/21/2014	10.45	676.57
4/7/2014	11.77	675.25
7/16/2014	10.29	676.73
10/14/2014 1/20/2015	9.65 10.15	677.37 676.87
4/6/2015	8.94	678.08
7/22/2015	7.98	679.04
10/19/2015	5.15	681.87
1/5/2016 4/4/2016	9.01 8.00	678.01 679.05
7/5/2016	5.86	681.19
10/24/2016	5.86	681.19
1/16/2017	10.58 12.29	676.47 674.76
4/18/2017 7/11/2017	12.29 12.65	674.76 674.40
10/23/2017	11.80	675.25
1/8/2018	10.12	676.93
4/11/2018	9.58	677.47
7/12/2018 10/19/2018	10.98 13.40	676.07 673.65
1/9/2019	12.32	674.73
4/8/2019	10.09	676.96
7/22/2019 10/14/2019	9.24 8.61	677.81 678.44
1/6/2020	8.61 8.14	678.44 678.91
4/6/2020	8.93	678.12
7/21/2020	9.14	677.91
10/13/2020	10.41	676.64
1/19/2021 4/6/2021	8.73 8.10	678.32 678.95
7/13/2021	9.10	677.95
10/18/2021	8.41	678.64
1/18/2022	8.89	678.16
4/4/2022	8.24	678.81

NOTES: ft MSL - feet mean sea level NA - Not Available NM - Not Measured TOC - top of PVC casing TOC Elevation - 687.72

TOC Elevation - 687.72

DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008.

DPE off line for repairs in October 2013.

TOC Elevation re-measured June 13, 2008 at 687.02

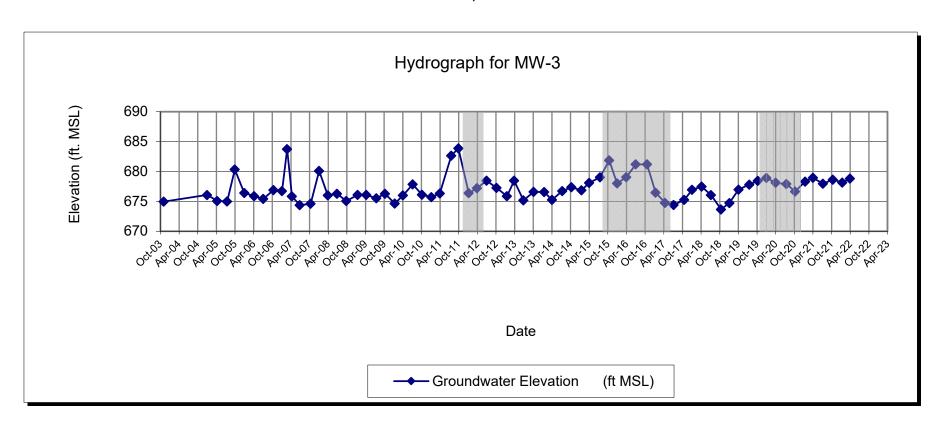
DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line between November 2018 and March 2020 to accommodate ABC+ OLE injection pilot test (note shading on graph).

DPE-3, -4, -6, -7, -8 off line beginning September 2021 to accommodate bioaugmentation injection.

MONITORING WELL MW-3 SUMMARY OF GROUNDWATER ELEVATIONS



MONITORING WELL MW-4 SUMMARY OF GROUNDWATER ELEVATIONS Former Scott Aviation Site - West of Plant 2 Lancaster, New York

Date Depth to Water from TOC (ft) MSL) 11/7/2003 8.54 678.10	
11/7/2003 8.54 678.10	
4/8/2004 NM NA	
10/12/2004 11.40 675.24 1/6/2005 0.20 677.44	
1/6/2005 9.20 677.44 4/14/2005 NM NA	
7/20/2005 NM NA	
10/4/2005 15.24 671.40	
1/5/2006 15.71 670.93	
4/11/2006 18.56 668.08	
7/10/2006 15.02 671.62	
10/18/2006 15.21 671.43	
1/9/2007 14.00 672.64	
2/28/2007 2.54 684.10	
4/16/2007 12.45 674.19	
7/2/2007 14.89 671.75 10/17/2007 12.91 673.73	
10/17/2007 12.91 673.73 1/8/2008 5.59 681.05	
4/2/2008 9.31 677.33	
7/1/2008 13.91 672.51	
9/30/2008 13.55 672.87	
1/19/2009 10.78 675.64	
4/14/2009 8.90 677.52	
7/21/2009 12.35 674.07	
10/14/2009 10.40 676.02	
1/18/2010 8.90 677.52	
4/8/2010 10.90 675.52	
7/12/2010 14.00 672.42	
10/11/2010 16.69 669.73	
1/12/2011 16.35 670.07	
4/4/2011 17.67 668.75 7/25/2011 2.32 684.10	
7/25/2011 2.32 684.10 10/3/2011 2.98 683.44	
1/12/2012 13.26 673.16	
4/2/2012 13.10 673.32	
7/6/2012 9.66 676.76	
10/11/2012 18.60 667.82	
1/21/2013 17.04 669.38	
4/1/2013 18.65 667.77	
7/1/2013 19.10 667.32	
10/9/2013 10.10 676.32	
1/21/2014 NM NA	
4/7/2014 18.85 667.57 7/16/2014 10.74 675.68	
7/16/2014 10.74 675.68 10/14/2014 8.52 677.90	
1/20/2015 10.95 675.47	
4/6/2015 9.05 677.37	
7/22/2015 7.55 678.87	
10/19/2015 4.59 681.83	
1/5/2016 9.92 676.50	
4/4/2016 8.20 678.30	
7/5/2016 4.94 681.56	
10/24/2016 4.94 681.56	
1/16/2017 10.80 675.70	
4/18/2017 11.92 675.70	
7/11/2017 11.30 675.20 10/23/2017 13.06 673.44	
1/8/2018 10.45 676.05	
4/11/2018 10.55 675.95	
7/12/2018 11.57 674.93	
10/19/2018 11.57 674.93	
1/9/2019 9.95 676.55	
4/8/2019 8.83 677.67	
7/22/2019 9.15 677.35	
10/14/2019 8.39 678.11	
1/6/2020 8.57 677.93	
4/6/2020 8.57 677.93	
7/21/2020 9.11 677.39	
10/13/2020 11.72 674.78 1/19/2021 9.78 676.72	
1/19/2021 9.78 676.72 4/6/2021 8.84 677.66	
7/13/2021 11.85 674.65	
10/18/2021 7.65 678.85	
1/18/2022 7.99 678.51	
4/4/2022 7.67 678.83	

NOTES: ft MSL - feet mean sea level

NA - Not Available NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 686.64

DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008. DPE off line for repairs in October 2013.

TOC Elevation re-measured on June 13, 2008 at 686.42.

TOC Elevation re-measured on June 13, 2008 at 686.42.

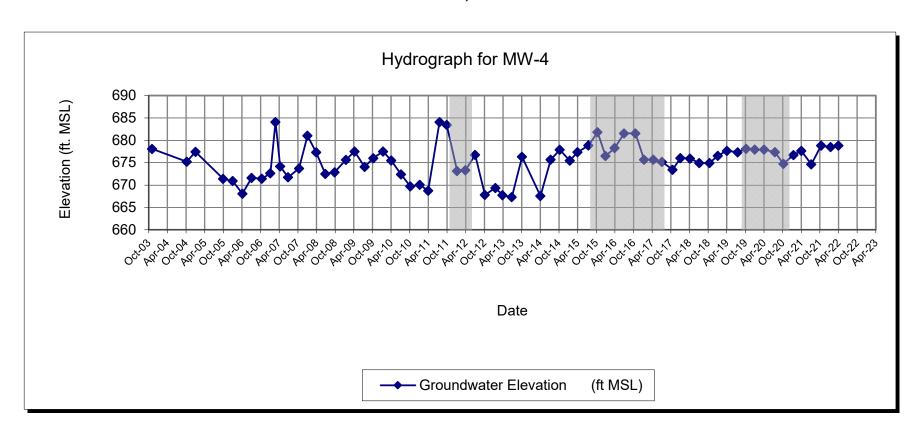
DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line between November 2018 and March 2020 to accommodate ABC+ OLE injection pilot test (note shading on graph).

DPE-3, -4, -6, -7, -8 off line beginning September 2021 to accommodate bioaugmentation injection.

MONITORING WELL MW-4 SUMMARY OF GROUNDWATER ELEVATIONS



MONITORING WELL MW-8R SUMMARY OF GROUNDWATER ELEVATIONS Former Scott Aviation Site - West of Plant 2 Lancaster, New York

		Groundwater Elevation (ft
Date	Depth to Water from TOC (ft)	MSL)
4/8/2004 10/12/2004	NM 12.75	NA 672.92
1/6/2005	7.45	678.22
4/14/2005	14.45	671.22
7/20/2005	NM	NA
10/4/2005	NM	NA OZO 40
1/6/2006 4/11/2006	15.51 15.65	670.16 670.02
7/10/2006	14.9	670.77
10/18/2006	15.72	669.95
1/9/2007	15.76	669.91
2/28/2007	10.78	674.89
4/16/2007 7/2/2007	15.60 16.29	670.07 669.38
10/15/2007	18.50	667.17
1/8/2008	4.99	680.68
4/2/2008	13.19	672.48
7/1/2008 9/30/2008	12.15 15.83	674.06 670.38
9/30/2008	11.55	670.38 674.66
4/14/2009	11.20	675.01
7/21/2009	13.57	672.64
10/14/2009	12.76	673.45
1/18/2010 4/8/2010	11.26 14.95	674.95 671.26
7/12/2010	13.74	672.47
10/11/2010	12.34	673.87
1/12/2011	13.10	673.11
4/4/2011	14.88 3.25	671.33
7/25/2011 10/3/2011	3.25 4.50	682.96 681.71
1/12/2012	12.96	673.25
4/2/2012	11.70	674.51
7/5/2012	10.34	675.87
10/11/2012 1/21/2013	13.38 14.90	672.83 671.31
4/1/2013	10.82	675.39
7/1/2013	12.70	673.51
10/9/2013	9.25	676.96
1/21/2014	NM 14.55	NA C74 CC
4/7/2014 7/16/2014	14.55 8.97	671.66 677.24
10/14/2014	5.85	680.36
1/20/2015	9.80	676.41
4/6/2015	7.55	678.66
7/22/2015 10/19/2015	8.22 4.90	677.99 681.31
1/5/2016	4.90 8.95	677.26
4/4/2016	8.10	678.19
7/5/2016	4.99	681.30
10/24/2016	4.99	681.30
1/16/2017 4/18/2017	10.35 13.68	675.94 675.94
7/11/2017	11.60	674.69
10/23/2017	12.06	674.23
4/11/2018	10.05	676.16
7/12/2018 10/19/2018	18.78 18.60	667.43 667.61
1/9/2019	7.95	667.61 678.26
4/8/2019	6.80	679.41
7/22/2019	8.00	678.21
10/14/2019	9.91	676.30
1/6/2020 4/6/2020	6.81 8.71	679.40 677.50
7/21/2020	8.71 8.15	677.50 678.06
10/13/2020	10.39	675.82
1/20/2021	8.89	677.32
4/6/2021	7.55	678.66
7/13/2021 10/18/2021	8.40 12.45	677.81 673.76
1/18/2022	15.03	671.18
4/4/2022	14.52	671.69

NOTES: ft MSL - feet mean sea level NA - Not Available NM - Not Measured

TOC - top of PVC casing
TOC Elevation - 685.67
DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008.

DPE off line for repairs in October 2013.

TOC Elevation re-measured on June 13, 2008 at 686.21.

TOC Elevation re-measured on June 13, 2008 at 686.21.

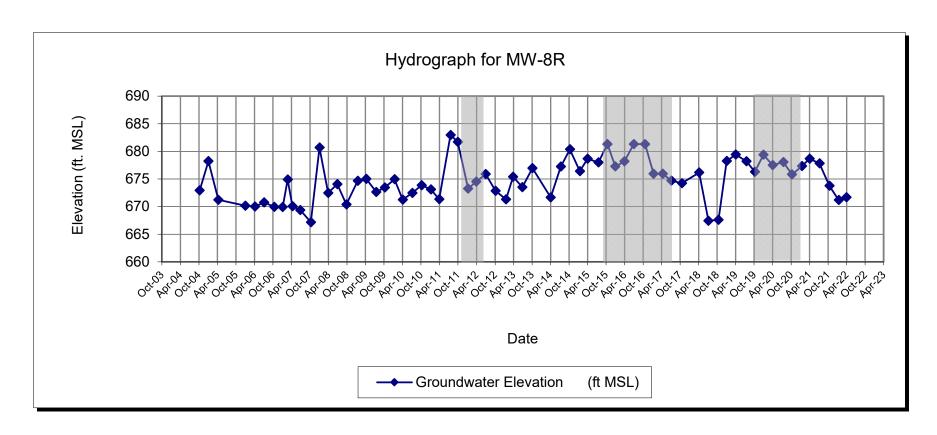
DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line between November 2018 and March 2020 to accommodate ABC+ OLE injection pilot test (note shading on graph).

DPE-3, -4, -6, -7, -8 off line beginning September 2021 to accommodate bioaugmentation injection.

MONITORING WELL MW-8R SUMMARY OF GROUNDWATER ELEVATIONS



MONITORING WELL MW-9 SUMMARY OF GROUNDWATER ELEVATIONS Former Scott Aviation Site - West of Plant 2 Lancaster, New York

		Groundwater Elevation (ft
Date	Depth to Water from TOC (ft)	MSL)
11/7/2003	13.03	672.4
4/8/2004 10/12/2004	NM 13.68	NA 671.75
1/6/2005	12.89	672.54
4/14/2005	12.74	672.69
7/20/2005	13.88	671.55
10/4/2005	7.22	678.21
1/5/2006	12.79	672.64
4/11/2006 7/10/2006	13.50 13.24	671.93 672.19
10/18/2006	11.00	674.43
1/9/2007	12.24	673.19
2/28/2007	1.66	683.77
4/16/2007	13.15	672.28
7/2/2007	13.00	672.43
10/17/2007 1/8/2008	13.95 6.70	671.48 678.73
4/2/2008	10.61	674.82
7/1/2008	14.25	674.39
9/30/2008	15.67	672.97
1/19/2009	14.48	674.16
4/14/2009	15.48	673.16
7/21/2009 10/10/2009	15.20 15.06	673.44 673.58
1/18/2010	17.00	671.64
4/8/2010	15.40	673.24
7/12/2010	12.42	676.22
10/11/2010	14.21	674.43
1/12/2011 4/4/2011	15.29 14.55	673.35 674.09
7/25/2011	5.75	682.89
10/3/2011	4.58	684.06
1/12/2012	14.75	673.89
4/2/2012	14.52	674.12
7/5/2012	11.48	677.16
10/11/2012 1/21/2013	12.66 14.44	675.98 674.20
4/1/2013	11.87	676.77
7/1/2013	16.54	672.10
10/9/2013	13.68	674.96
1/21/2014	15.38	673.26
4/7/2014 7/16/2014	16.30 13.71	672.34 674.93
10/14/2014	13.71	675.55
1/20/2015	13.92	674.72
4/6/2015	12.41	676.23
7/22/2015	10.72	677.92
10/19/2015	7.06 12.09	681.58 676.55
1/5/2016 4/4/2016	12.09	676.55 678.19
7/5/2016	7.41	682.16
10/24/2016	7.41	682.16
1/16/2017	13.72	675.85
4/18/2017	14.24	675.85
7/11/2017 10/23/2017	15.00 14.84	674.57 674.73
1/8/2018	13.04	674.73 676.53
4/11/2018	13.20	676.37
7/12/2018	14.49	675.08
10/19/2018	14.21	675.36
1/9/2019	13.49	676.08
4/8/2019 7/22/2019	12.85 12.61	676.72 676.96
10/14/2019	11.83	677.74
1/6/2020	10.81	678.76
4/6/2020	12.25	677.32
7/21/2020	12.50	677.07
10/13/2020 1/19/2021	14.72 12.14	674.85 677.43
4/6/2021	12.14	677.43 678.31
7/13/2021	12.55	677.02
10/18/2021	11.69	677.88
1/18/2022	13.30	676.27
4/4/2022	12.10	677.47

NOTES:

NOTES:
If MSL - feet mean sea level
NA - Not Available
NM - Not Measured
TOC - top of PVC casing
TOC Elevation - 685.43
DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008. DPE off line for repairs in October 2013.

DPE off line for repairs in October 2013.

TOC Elevation re-measured on June 13, 2008 at 688.64.

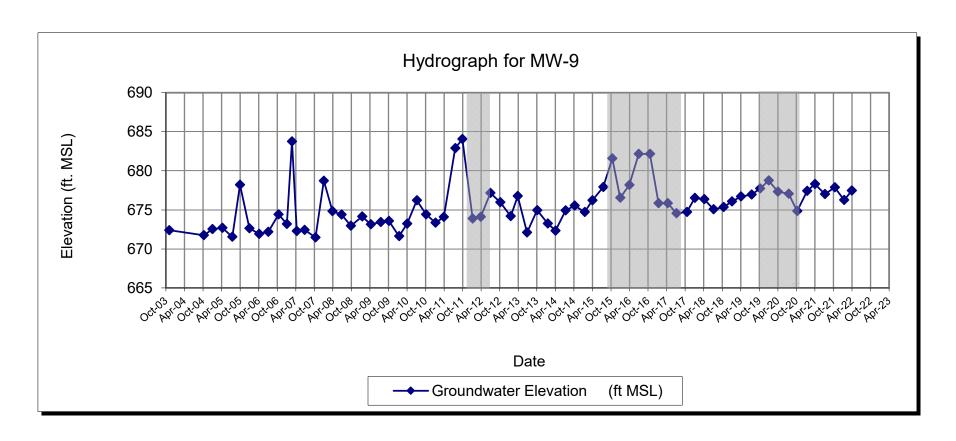
DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phase of the ABC+ injection pilot test (note shading on graph).

DPE system off line between November 2018 and March 2020 to accommodate ABC+ OLE injection pilot test (note shading on graph).

DPE-3, -4, -6, -7, -8 off line beginning September 2021 to accommodate bioaugmentation injection.

MONITORING WELL MW-9 SUMMARY OF GROUNDWATER ELEVATIONS



MONITORING WELL MW-11 SUMMARY OF GROUNDWATER ELEVATIONS Former Scott Aviation Site - West of Plant 2 Lancaster, New York

		Groundwater Elevation (ft
Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	NM	NA
10/12/2004	NM	NA
1/6/2005	15.59	673.02
4/14/2005	11.59	677.02
7/20/2005	17.34	671.27
10/4/2005	10.45	678.16 672.03
1/5/2006 4/11/2006	16.58 13.52	672.03 675.09
7/10/2006	13.75	674.86
10/18/2006	14.35	674.26
1/9/2007	15.26	673.35
2/28/2007	6.34	682.27
4/16/2007	11.55	677.06
7/2/2007	17.30	671.31
10/16/2007	17.69	670.92
1/8/2008	11.73	676.88
4/2/2008 7/1/2008	14.78 13.91	673.83 674.74
9/30/2008	15.25	673.40
9/30/2008	13.45	673.40 675.20
4/14/2009	13.50	675.15
7/21/2009	14.51	674.14
10/14/2009	13.85	674.80
1/18/2010	16.38	672.27
4/8/2010	13.90	674.75
7/12/2010	12.60	676.05
10/11/2010	14.80	673.85
1/12/2011	NM	
4/4/2011	14.52	674.13
7/25/2011 10/3/2011	4.48 4.05	684.17 684.60
1/12/2012	8.96	679.69
4/2/2012	12.87	675.78
7/5/2012	10.53	678.12
10/11/2012	14.40	674.25
1/21/2013	14.75	673.90
4/1/2013	11.66	676.99
7/1/2013	14.99	673.66
10/9/2013	12.25	676.40
1/21/2014	13.75	674.90
4/7/2014 7/16/2014	14.56 12.64	674.09 676.01
10/14/2014	12.04	676.01 676.39
1/20/2015	12.31	676.34
4/6/2015	11.95	676.70
7/22/2015	8.49	680.16
10/19/2015	8.75	679.90
1/5/2016	12.53	676.12
4/4/2016	10.84	677.77
7/5/2016	9.37	679.24
10/24/2016	9.37	679.24 670.01
1/16/2017 4/18/2017	9.60 11.98	679.01 679.01
4/18/2017 7/11/2017	13.75	674.86
10/23/2017	12.83	675.78
1/8/2018	11.79	676.82
4/11/2018	10.75	677.86
7/12/2018	13.21	675.40
10/19/2018	12.40	676.21
1/9/2019	12.27	676.34
4/8/2019	11.66	676.95
7/22/2019	11.45	677.16 677.02
10/14/2019 1/6/2019	11.59 11.59	677.02 677.02
4/6/2020	11.79	676.82
7/21/2020	11.82	676.79
10/13/2020	11.81	676.80
1/19/2021	10.17	678.44
4/6/2021	9.81	678.80
7/13/2021	10.50	678.11
10/18/2021	9.68	678.93
1/18/2022	10.22	678.39
4/4/2022	9.14	679.47

NOTES: ft MSL - feet mean sea level NA - Not Available

NM - Not Measured

TOC - top of PVC casing TOC Elevation - 688.61

DPE and GWCT off line for repairs in February 2007.
DPE off line for repairs in January 2008.
DPE off line for repairs in October 2013.

TOC Elevation re-measured on June 13, 2008 at 688.65.

TOC Elevation re-measured on June 13, 2008 at 688.65.

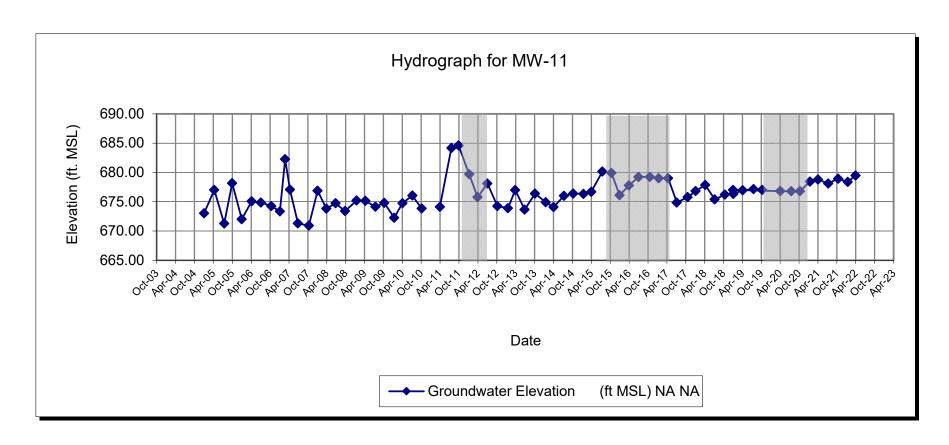
DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line between November 2018 and March 2020 to accommodate ABC+ OLE injection pilot test (note shading on graph).

DPE-3, -4, -6, -7, -8 off line beginning September 2021 to accommodate bioaugmentation injection.

MONITORING WELL MW-11 SUMMARY OF GROUNDWATER ELEVATIONS



MONITORING WELL MW-13S SUMMARY OF GROUNDWATER ELEVATIONS Former Scott Aviation Site - West of Plant 2 Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	7.01	679.56
10/12/2004	13.47	673.10
1/6/2005	7.24	679.33
4/14/2005 7/20/2005	13.91 12.81	672.66 673.76
10/4/2005	13.35	673.22
1/5/2006	13.79	672.78
4/11/2006	12.45	674.12
7/10/2006	13.02	673.55
10/18/2006 1/9/2007	10.99 11.35	675.58 675.22
2/28/2007	3.49	683.08
4/16/2007	12.01	674.56
7/2/2007	13.20	673.37
10/18/2007 1/8/2008	12.77	673.80
4/2/2008	5.08 5.45	681.49 681.12
7/1/2008	9.70	676.90
9/30/2008	11.80	674.80
1/19/2009	8.70	677.90
4/14/2009 7/21/2009	8.64 10.91	677.96 675.69
10/14/2009	9.18	675.69 677.42
1/18/2010	9.80	676.80
4/8/2010	8.30	678.30
7/12/2010	9.96	676.64
10/11/2010	10.29	676.31
1/12/2011 4/4/2011	7.53 8.00	679.07 678.60
7/25/2011	2.55	684.05
10/3/2011	1.81	684.79
1/12/2012	8.11	678.49
4/2/2012 7/5/2012	8.06 8.71	678.54
10/11/2012	9.57	677.89 677.03
1/21/2013	13.85	672.75
4/1/2013	6.44	680.16
7/1/2013	6.44	680.16
10/9/2013 1/21/2014	4.10 4.95	682.50 681.65
4/7/2014	6.02	680.58
7/16/2014	5.42	681.18
10/14/2014	4.41	682.19
1/20/2015	6.10	680.50
4/6/2015 7/22/2015	4.69 7.97	681.91 678.63
10/19/2015	3.95	682.65
1/5/2016	5.90	680.70
4/4/2016	5.05	681.60
7/5/2016 10/24/2016	3.90	682.75
1/16/2017	3.90 7.20	682.75 679.45
4/18/2017	6.11	679.45
7/11/2017	8.60	678.05
10/23/2017	6.42	680.23
1/8/2018 4/11/2018	4.73 4.20	681.92 682.45
7/12/2018	4.20 7.02	679.63
10/19/2018	15.86	670.79
1/9/2019	9.71	676.94
4/8/2019	5.35	681.30
7/22/2019 10/14/2019	16.50 16.50	670.15 670.15
1/6/2020	10.21	676.44
4/6/2020	8.36	678.29
7/21/2020	5.50	681.15
10/13/2020	8.84	677.81
1/19/2021 4/6/2021	9.78 3.67	676.87 682.98
7/13/2021	5.95	680.70
10/18/2021	9.31	677.34
1/18/2022	3.52	683.13
4/4/2022	2.97	683.68

NOTES: ft MSL - feet mean sea level NA - Not Available

NM - Not Measured TOC - top of PVC casing TOC Elevation - 686.57

DPE and GWCT off line for repairs in February 2007.
DPE off line for repairs in January 2008.
DPE off line for repairs in October 2013.

DPE on line for replains in October 2015.

TOC Elevation re-measured on June 13, 2008 at 686.60.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

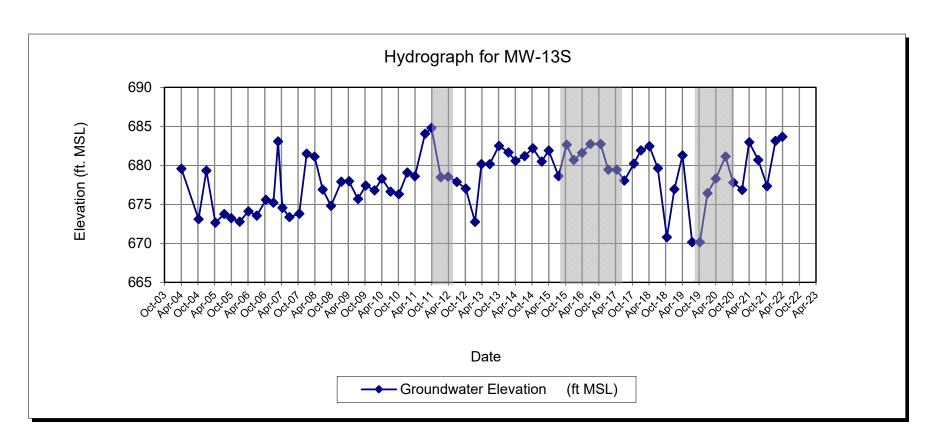
DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line between November 2018 and March 2020 to accommodate ABC+ OLE injection pilot test (note shading on graph).

shading on graph).

DPE-3, -4, -6, -7, -8 off line beginning September 2021 to accommodate bioaugmentation injection.

MONITORING WELL MW-13S SUMMARY OF GROUNDWATER ELEVATIONS



MONITORING WELL MW-13D SUMMARY OF GROUNDWATER ELEVATIONS Former Scott Aviation Site - West of Plant 2 Lancaster, New York

Lancaster, New Tork		
2.4	D 41 / W / / TOO (5)	Groundwater Elevation (ft
4/8/2004	Depth to Water from TOC (ft) 13.28	MSL)
10/12/2004	14.87	673.43 671.84
1/6/2005	14.55	672.16
4/14/2005	15.32	671.39
7/20/2005	15.65	671.06
10/4/2005	9.44	677.27
1/5/2006	15.83	670.88
4/11/2006	15.41	671.30
7/10/2006	13.79	672.92
10/18/2006	13.17	673.54
1/9/2007	14.41	672.30
2/28/2007	3.28	683.43
4/16/2007	14.66	672.05
7/2/2007	15.68	671.03
10/18/2007	15.80	670.91
1/8/2008	8.69	678.02
4/2/2008 7/1/2008	12.86 12.55	673.85 674.18
9/30/2008	13.89	672.84
1/19/2009	12.10	674.63
4/14/2009	11.78	674.95
7/21/2009	12.86	673.87
10/14/2009	11.59	675.14
1/18/2010	13.88	672.85
4/8/2010	12.00	674.73
7/12/2010	11.90	674.83
10/11/2010	13.34	673.39
1/12/2011	13.2	673.53
4/4/2011	13.13	673.60
7/25/2011	3.33	683.40
10/3/2011	2.55	684.18
1/12/2012	12.34	674.39
4/2/2012	11.76	674.97
7/5/2012	9.25	677.48
10/11/2012	13.00	673.73
1/21/2013	13.85	672.88
4/1/2013 7/1/2013	11.01 14.26	675.72 672.47
10/9/2013	10.36	676.37
1/21/2014	11.45	675.28
4/7/2014	13.65	673.08
7/16/2014	10.74	675.99
10/14/2014	9.41	677.32
1/20/2015	11.02	675.71
4/6/2015	9.35	677.38
7/22/2015	7.44	679.29
10/19/2015	4.55	682.18
1/5/2016	10.31	676.42
4/4/2016	8.65	678.13
7/5/2016	5.06	681.72
10/24/2016	5.06	681.72
1/16/2017	12.50	674.28
4/18/2017 7/11/2017	10.10 11.15	674.28 675.63
10/23/2017	10.87	675.91
1/8/2018	9.12	677.66
4/11/2018	8.70	678.08
7/12/2018	10.91	675.87
10/19/2018	10.86	675.92
1/9/2019	9.85	676.93
4/8/2019	9.00	677.78
7/22/2019	9.79	676.99
10/14/2019	8.87	677.91
1/6/2020	7.69	679.09
4/6/2020	8.54	678.24
7/21/2020	9.00	677.78
10/13/2020	10.16	676.62
1/19/2021	9.02	677.76
4/6/2021	7.90	678.88 677.73
7/13/2021 10/18/2021	9.05 8.45	677.73 678.33
10/18/2021	8.45 8.75	678.33 678.03
4/4/2022	7.52	679.26
7/7/2022	1.02	01 3.20

NOTES: ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured TOC - top of PVC casing TOC Elevation - 686.71

DPE and GWCT off line for repairs in February 2007.
DPE off line for repairs in January 2008.
DPE off line for repairs in October 2013.

DPE on line for replains in October 2015.

TOC Elevation re-measured on June 13, 2008 at 686.73.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

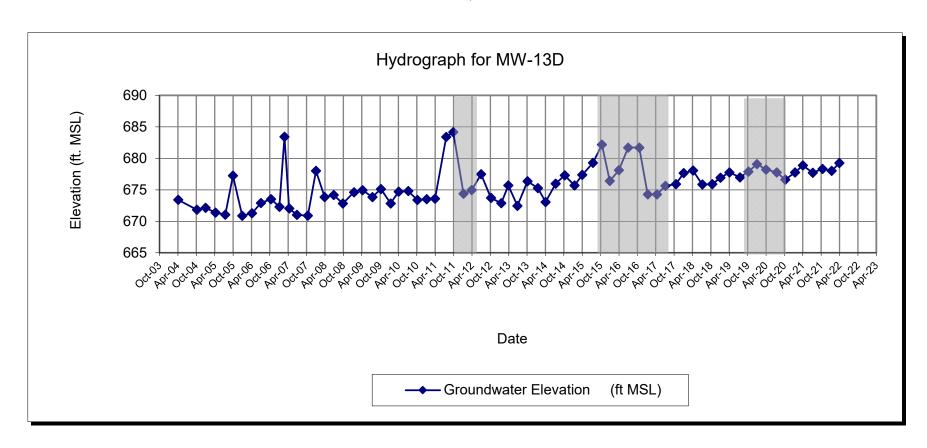
DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line between November 2018 and March 2020 to accommodate ABC+ OLE injection pilot test (note shading on graph).

shading on graph).

DPE-3, -4, -6, -7, -8 off line beginning September 2021 to accommodate bioaugmentation injection.

MONITORING WELL MW-13D SUMMARY OF GROUNDWATER ELEVATIONS



MONITORING WELL MW-14S SUMMARY OF GROUNDWATER ELEVATIONS Former Scott Aviation Site - West of Plant 2 Lancaster, New York

	Lancaster, New Tork							
Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft						
Date 4/8/2004	5.14	MSL) 680.17						
10/12/2004	8.57	676.74						
1/6/2005	6.27	679.04						
4/14/2005	5.16	680.15						
7/20/2005	8.32	676.99						
10/4/2005	6.14	679.17						
1/5/2006	8.41	676.90						
4/11/2006	7.75	677.56						
7/10/2006	8.18	677.13						
10/18/2006	9.00	676.31						
1/9/2007	6.61	678.70						
2/28/2007 4/16/2007	1.50	683.81						
	3.45	681.86						
7/2/2007 10/15/2007	8.36 9.45	676.95 675.86						
1/8/2008	4.65	680.66						
4/2/2008	4.47	680.84						
7/1/2008	6.37	679.33						
9/30/2008	8.90	676.80						
1/19/2009	6.15	679.55						
4/14/2009	7.70	678.00						
7/21/2009	7.25	678.45						
10/14/2009	7.05	678.65						
1/18/2010	NM							
4/8/2010	6.50	678.81						
7/12/2010	6.54	678.77						
10/11/2010	5.90	679.80						
1/12/2011	6.83	678.87						
4/4/2011	6.34	679.36						
7/25/2011 10/3/2011	2.59	683.11 693.73						
1/12/2012	1.98 5.10	683.72 680.60						
4/2/2012	4.55	681.15						
7/5/2012	7.15	678.55						
10/11/2012	6.67	679.03						
1/21/2013	5.15	680.55						
4/1/2013	5.05	680.65						
7/1/2013	6.81	678.89						
10/9/2013	5.60	680.10						
1/21/2014	5.68	680.02						
4/7/2014	6.03	679.67						
7/16/2014	5.49	680.21						
10/14/2014	5.61	680.09						
1/20/2015	5.55	680.15						
4/6/2015 7/22/2015	4.58 3.59	681.12 682.11						
	3.70							
10/19/2015 1/5/2016	3.92	682.00 681.78						
4/4/2016	8.80	676.90						
7/5/2016	3.80	681.90						
10/24/2016	3.80	681.90						
1/16/2017	5.10	680.60						
4/18/2017	5.44	680.26						
7/11/2017	7.50	678.20						
10/23/2017	7.18	678.52						
1/8/2018	5.39	680.35						
4/11/2018	5.14	680.60						
7/12/2018	7.25	678.49						
10/19/2018	6.89	678.85						
1/9/2019	4.30	681.44 691.34						
4/8/2019 7/22/2019	4.40 8.60	681.34 677.14						
10/14/2019	8.60 5.14	680.60						
1/6/2020	4.42	681.32						
4/6/2020	4.42	681.43						
7/21/2020	5.30	680.44						
10/13/2020	6.18	679.56						
1/19/2021	5.28	680.46						
4/6/2021	4.75	680.99						
7/13/2021	5.35	680.39						
10/18/2021	5.41	680.33						
1/18/2022	5.23	680.51						
4/4/2022	4.86	680.88						

NOTES: ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured TOC - top of PVC casing TOC Elevation - 685.31

DPE and GWCT off line for repairs in February 2007.
DPE off line for repairs in January 2008.
DPE off line for repairs in October 2013.

DPE on line for replains in October 2015.

TOC Elevation re-measured on June 13, 2008 at 685.70.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

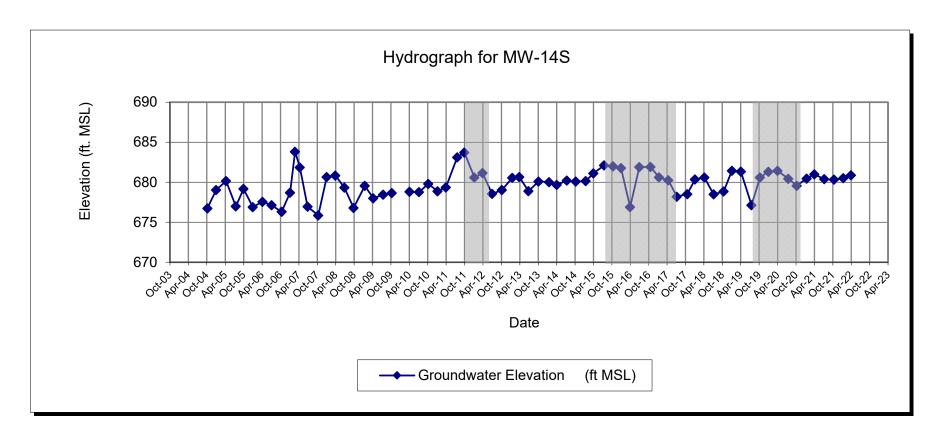
DPE system off line between November 2018 and March 2020 to accommodate ABC+ OLE injection pilot test (note shading on graph).

shading on graph).

DPE-3, -4, -6, -7, -8 off line beginning September 2021 to accommodate bioaugmentation injection.

MONITORING WELL MW-14S SUMMARY OF GROUNDWATER ELEVATIONS

Former Scott Aviation Site - West of Plant 2 Lancaster, New York



MONITORING WELL MW-14D SUMMARY OF GROUNDWATER ELEVATIONS Former Scott Aviation Site - West of Plant 2 Lancaster, New York

		Groundwater Elevation (ft
Date	Depth to Water from TOC (ft)	MSL)
4/8/2004	13.21	672.22
10/12/2004	14.55	670.88
1/6/2005 4/14/2005	15.97 13.25	669.46 672.18
7/20/2005	18.20	667.23
10/4/2005	13.26	672.17
1/5/2006	19.08	666.35
4/11/2006	19.79	665.64
7/10/2006	17.16	668.27
10/18/2006	19.44	665.99
1/9/2007	14.71	670.72
2/28/2007 4/16/2007	2.67 19.74	682.76 665.69
7/2/2007	19.68	665.75
10/15/2007	19.76	665.67
1/8/2008	7.92	677.51
4/2/2008	14.41	671.02
7/1/2008	14.45	671.37
9/30/2008	15.39	670.43 672.27
1/19/2009 4/14/2009	13.55 20.10	672.27 665.72
7/21/2009	15.15	670.67
10/14/2009	20.27	665.55
1/18/2010	20.40	665.42
4/8/2010	15.40	670.42
7/12/2010	17.15	668.67
10/11/2010	14.40	671.42
1/12/2011 4/4/2011	17.92 16.23	667.90 669.59
7/25/2011	3.10	682.72
10/3/2011	2.72	683.10
1/12/2012	15.30	670.52
4/2/2012	16.50	669.32
7/5/2012	12.81	673.01
10/11/2012	14.55	671.27
1/21/2013	13.45	672.37 675.04
4/1/2013 7/1/2013	10.78 19.85	675.04 665.97
10/9/2013	10.02	675.80
1/21/2014	18.20	667.62
4/7/2014	17.95	667.87
7/16/2014	12.99	672.83
10/14/2014	10.70	675.12
1/20/2015 4/6/2015	13.49 11.30	672.33 674.52
7/22/2015	8.62	674.52 677.20
10/19/2015	4.10	681.72
1/5/2016	11.70	674.12
4/4/2016	17.98	667.90
7/5/2016	4.67	681.21
10/24/2016	4.67	681.21
1/16/2017	15.89	669.99 660.00
4/18/2017 7/11/2017	12.45 14.74	669.99 671.14
10/23/2017	17.02	668.86
1/8/2018	17.69	668.19
4/11/2018	15.95	669.93
7/12/2018	16.90	668.98
10/19/2018	15.69	670.19
1/9/2019	12.62	673.26
4/8/2019	11.80 11.35	674.08 674.53
7/22/2019 10/14/2019	11.35 11.88	674.53 674.00
1/6/2020	9.44	676.44
4/6/2020	13.00	672.88
7/21/2020	12.31	673.57
10/13/2020	19.31	666.57
1/19/2021	12.24	673.64
4/6/2021 7/13/2021	10.28	675.60
7/13/2021 10/18/2021	12.80 10.13	673.08 675.75
1/18/2022	18.85	667.03
4/4/2022	11.49	674.39

NOTES: ft MSL - feet mean sea level NA - Not Available

NM - Not Measured TOC - top of PVC casing TOC Elevation - 685.43

DPE and GWCT off line for repairs in February 2007.
DPE off line for repairs in January 2008.
DPE off line for repairs in October 2013.

TOC Elevation re-measured on June 13, 2008 at 685.82.

TOC Elevation re-measured on June 13, 2008 at 685.82.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

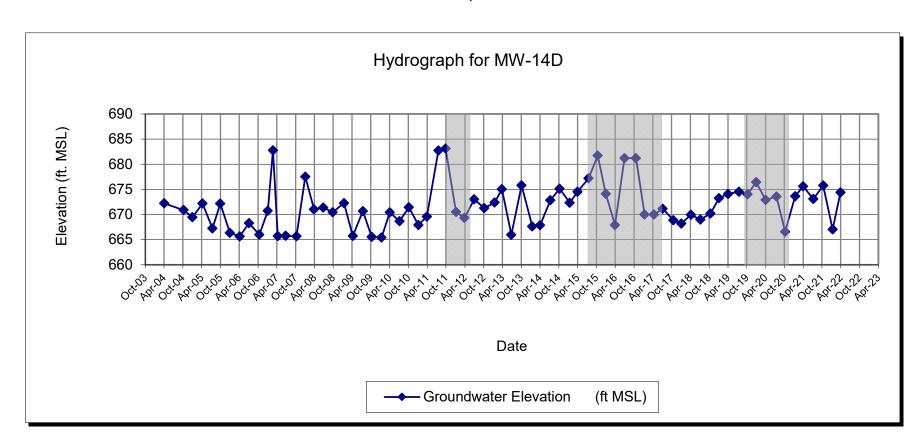
DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line between November 2018 and March 2020 to accommodate ABC+ OLE injection pilot test (note shading on graph).

DPE-3, -4, -6, -7, -8 off line beginning September 2021 to accommodate bioaugmentation injection.

MONITORING WELL MW-14D SUMMARY OF GROUNDWATER ELEVATIONS

Former Scott Aviation Site - West of Plant 2
Lancaster, New York



MONITORING WELL MW-15S SUMMARY OF GROUNDWATER ELEVATIONS Former Scott Aviation Site - West of Plant 2 Lancaster, New York

		Construction Florida
Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	1.20	685.44
10/12/2004	5.26	681.38
1/6/2005	0.35	686.29
4/14/2005	2.31	684.33
7/20/2005 10/4/2005	4.78 2.22	681.86 684.42
1/5/2006	0.70	685.94
4/11/2006	2.00	684.64
7/10/2006	4.75	681.89
1/9/2007	0.05	686.59
2/28/2007	0.00	686.64
4/16/2007	0.50	686.14
7/2/2007	4.67	681.97
10/16/2007 1/8/2008	4.80	681.84
4/2/2008	0.70 0.00	685.94 686.64
7/1/2008	0.50	687.02
9/30/2008	3.14	684.38
1/19/2009	1.50	686.02
4/14/2009	1.60	685.92
7/21/2009	1.11	686.41
10/14/2009	1.11	686.41
1/18/2010	0.80	686.72
4/8/2010	2.00	685.52
7/12/2010 10/11/2010	2.80 3.14	684.72 684.38
1/12/2011	1.40	686.12
4/4/2011	0.50	687.02
7/25/2011	2.51	685.01
10/3/2011	0.20	687.32
1/12/2012	0.50	687.02
4/2/2012	1.40	686.12
7/5/2012	3.90	683.62
10/1/2012	3.18	684.34
1/21/2013 4/1/2013	0.00 0.50	687.52 687.02
7/1/2013	1.73	685.79
10/9/2013	2.10	685.42
1/21/2014	1.75	685.77
4/7/2014	0.90	686.62
7/16/2014	1.91	685.61
10/14/2014	2.00	685.52
1/20/2015	1.60	685.92
4/6/2015 7/22/2015	0.51 1.41	687.01 686.11
10/19/2015	2.20	685.32
1/5/2016	1.15	686.37
4/4/2016	0.70	687.17
7/5/2016	3.61	683.56
10/24/2016	3.61	683.56
1/16/2017	1.20	685.97
4/18/2017	0.90	685.97
7/11/2017	4.30	682.87
10/23/2017 1/8/2018	2.55 0.00	684.62 687.17
4/11/2018	0.00	687.17
7/12/2018	0.35	686.82
10/19/2018	0.44	686.73
1/9/2019	0.22	686.95
4/8/2019	0.00	687.17
7/22/2019	2.95	684.22
10/14/2019	1.32	685.85
1/6/2020	0.04	687.13
4/6/2020 7/21/2020	0.02 0.48	687.15 686.69
10/13/2020	0.48 2.98	684.19
1/19/2021	0.49	686.68
4/6/2021	0.98	686.19
7/13/2021	3.25	683.92
10/18/2021	0.87	686.30
1/18/2022	0.00	687.17
4/4/2022	0.90	686.27

ft MSL - feet mean sea level NA - Not Available

NA - Not Available
NM - Not Measured
TOC - top of PVC casing
TOC Elevation - 686.64
DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008. DPE off line for repairs in October 2013.

Measured from ground surface on April 4, 2016 at 687.87. TOC Elevation re-measured on June 13, 2008 at 687.52.

DCE Elevation re-measured on June 13, 2008 at 687.52.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line between November 2018 and March 2020 to accommodate ABC+ OLE injection pilot test (note shading on graph).

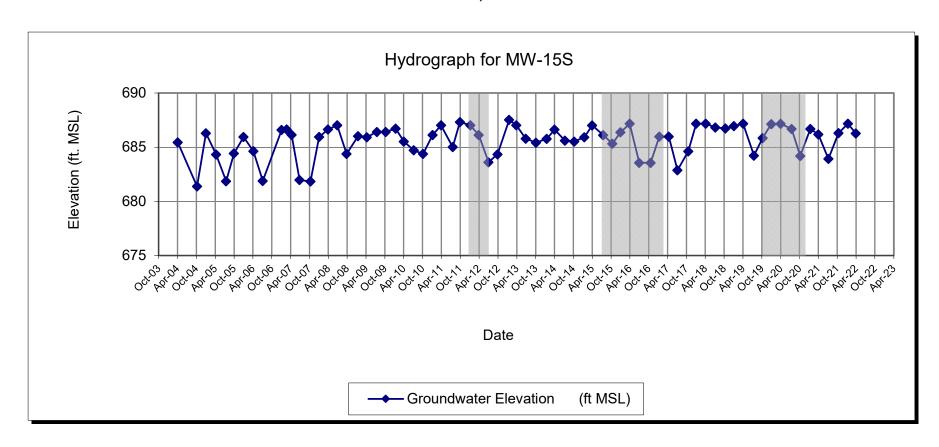
shading on graph).

DPE-3, -4, -6, -7, -8 off line beginning September 2021 to accommodate bioaugmentation injection.

MONITORING WELL MW-15S SUMMARY OF GROUNDWATER ELEVATIONS

Former Scott Aviation Site - West of Plant 2

Lancaster, New York



MONITORING WELL MW-15D SUMMARY OF GROUNDWATER ELEVATIONS Former Scott Aviation Site - West of Plant 2 Lancaster, New York

		Groundwater Elevation (ft
Date	Depth to Water from TOC (ft)	MSL)
4/8/2004	15.70	671.61
10/12/2004 1/6/2005	17.42 15.74	669.89 671.57
4/14/2005	16.99	670.32
7/20/2005	17.31	670.00
10/4/2005	8.94	678.37
1/5/2006	16.16	671.15
4/11/2006 7/10/2006	16.90 15.78	670.41
10/18/2006	15.76	671.53 671.81
1/9/2007	15.80	671.51
2/28/2007	4.10	683.21
4/16/2007	16.61	670.70
7/2/2007 10/16/2007	17.20 16.70	670.11 670.61
1/8/2008	8.99	678.32
4/2/2008	15.01	672.30
7/1/2008	14.64	672.98
9/30/2008	16.24	671.38
1/19/2009 4/14/2009	15.00 14.21	672.62 673.41
7/21/2009	14.61	673.01
10/14/2009	14.81	672.81
1/18/2010	16.89	670.73
4/8/2010 7/12/2010	15.00 13.00	672.62 674.62
10/11/2010	13.00	674.62
1/12/2011	15.65	671.97
4/4/2011	15.51	672.11
7/25/2011	3.73	683.89
10/3/2011	3.05	684.57
1/12/2012 4/2/2012	15.50 14.30	672.12 673.32
7/5/2012	9.81	677.81
10/11/2012	13.70	673.92
1/21/2013	15.90	671.72
4/1/2013 7/1/2013	11.08 16.04	676.54 671.58
10/9/2013	13.95	673.67
1/21/2014	15.05	672.57
4/7/2014	15.84	671.78
7/16/2014	13.51	674.11
10/14/2014 1/20/2015	12.49 15.04	675.13 672.58
4/6/2015	13.15	674.47
7/22/2015	9.92	677.70
10/19/2015	6.50	681.12
1/5/2016 4/4/2016	13.65	673.97 676.17
7/5/2016	11.70 5.85	681.52
10/24/2016	5.85	681.52
1/16/2017	13.56	673.81
4/18/2017	13.40	673.97
7/11/2017 10/23/2017	14.06 14.21	673.31 673.16
1/8/2018	13.08	674.79
4/11/2018	11.70	676.17
7/12/2018	14.19	673.68
10/19/2018 1/9/2019	13.83 13.17	674.04 674.70
4/8/2019	12.80	675.07
7/22/2019	12.66	675.21
10/14/2019	11.97	675.90
1/6/2020	10.79	677.08
4/6/2020 7/21/2020	11.85 12.61	676.02 675.26
10/13/2020	13.55	674.32
1/19/2021	8.76	679.11
4/6/2021	11.31	676.56
7/13/2021	13.10	674.77
10/18/2021 1/18/2022	11.72 11.85	676.15 676.02
4/4/2022	10.80	677.07

ft MSL - feet mean sea level NA - Not Available NM - Not Measured

TOC - top of PVC casing
TOC Elevation - 687.31'
DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008. DPE off line for repairs in October 2013.

DPE off line for repairs in October 2013.

TOC Elevation re-measured on June 13, 2008 at 687.62.

Measured from ground surface on April 4, 2016 at 687.87.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

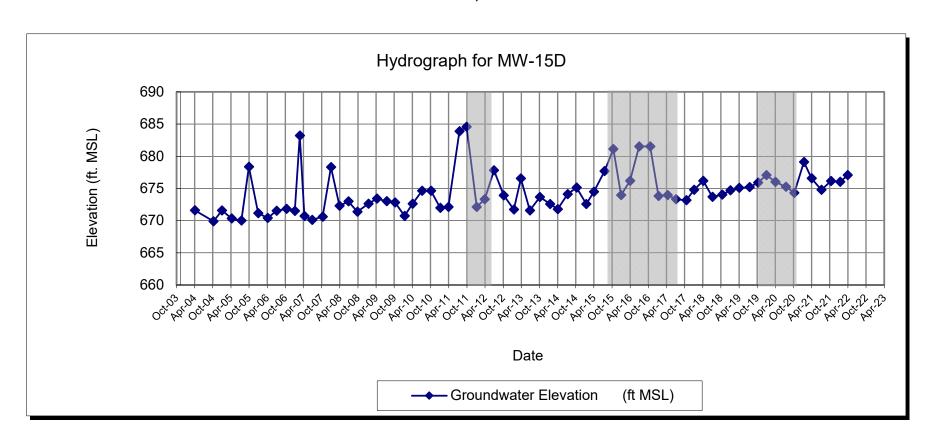
DPE system off line between November 2018 and March 2020 to accommodate ABC+ OLE injection pilot test (note shading on graph).

(note shading on graph).

DPE-3, -4, -6, -7, -8 off line beginning September 2021 to accommodate bioaugmentation injection.

MONITORING WELL MW-15D SUMMARY OF GROUNDWATER ELEVATIONS

Former Scott Aviation Site - West of Plant 2
Lancaster, New York



MONITORING WELL MW-16S SUMMARY OF GROUNDWATER ELEVATIONS Former Scott Aviation Site - West of Plant 2 Lancaster, New York

		Groundwater Elevation (ft
Date	Depth to Water from TOC (ft)	MSL)
4/8/2004	5.09	680.75
10/12/2004 1/6/2005	12.09 4.75	673.75 681.09
4/14/2005	4.75 10.15	681.09 675.69
7/20/2005	14.56	671.28
10/4/2005	11.50	674.34
1/5/2006	11.41	674.43
4/11/2006	12.90	672.94
7/10/2006	11.54	674.30
10/18/2006	12.50 13.82	673.34
1/9/2007 2/28/2007	2.90	672.02 682.94
4/16/2007	13.07	672.77
7/2/2007	12.50	673.34
10/18/2007	15.23	670.61
1/8/2008	5.60	680.24
4/2/2008	12.40	673.44
7/1/2008	15.70	674.67
9/30/2008 1/19/2009	19.34 17.80	671.03 672.57
4/14/2009	18.22	672.15
7/21/2009	19.95	670.42
10/14/2009	17.77	672.60
1/18/2010	16.45	673.92
4/8/2010	18.60	671.77
7/12/2010 10/11/2010	18.45 13.51	671.92 676.86
10/11/2010 4/7/2011	13.51 8.55	676.86 677.29
7/25/2011	1.45	684.39
10/3/2011	0.60	685.24
1/12/2012	3.80	682.04
4/2/2012	5.85	679.99
7/5/2012	9.12	676.72
10/11/2012 1/21/2013	6.36 7.85	679.48 677.99
4/1/2013	10.15	677.99 675.69
7/1/2013	9.18	676.66
10/9/2013	3.80	682.04
1/21/2014	9.55	676.29
4/7/2014	9.60	676.24
7/16/2014 10/14/2014	9.05 3.10	676.79 682.74
1/20/2015	6.90	682.74 678.94
4/6/2015	5.50	680.34
7/22/2015	10.14	678.05
10/19/2015	5.00	683.19
1/5/2016	7.05	681.14
4/4/2016	6.38	681.77
7/5/2016 10/24/2016	5.23 5.23	682.92 682.92
1/16/2017	5.23 8.25	682.92 679.90
4/18/2017	7.28	679.90
7/11/2017	10.36	677.79
10/23/2017	8.66	679.49
1/8/2018	6.29	681.86
4/11/2018	6.71	681.44
7/12/2018 10/19/2018	8.99 10.42	679.16 677.73
1/9/2019	6.86	681.29
4/8/2019	6.02	682.13
7/22/2019	6.91	681.24
10/14/2019	6.02	682.13
1/6/2020	5.51	682.64
4/6/2020	6.83	681.32
7/21/2020 10/12/2020	6.14 8.00	682.01 680.15
1/19/2021	6.89	681.26
4/6/2021	6.60	681.55
7/13/2021	6.90	681.25
10/18/2021	3.87	684.28
1/18/2022	5.42	682.73
4/4/2022	4.95	683.20

NOTES: ft MSL - feet mean sea level NA - Not Available NM - Not Measured

TOC - top of PVC casing
TOC Elevation - 685.84
DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008. DPE off line for repairs in October 2013.

TOC Elevation re-measured on June 13, 2008 at 690.37.
TOC Elevation re-measured on April 7, 2011 at 685.84.
TOC Elevation re-measured on June 1, 2015 at 688.19.

TOC Elevation re-measured on February 23, 2016 at 688.15.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

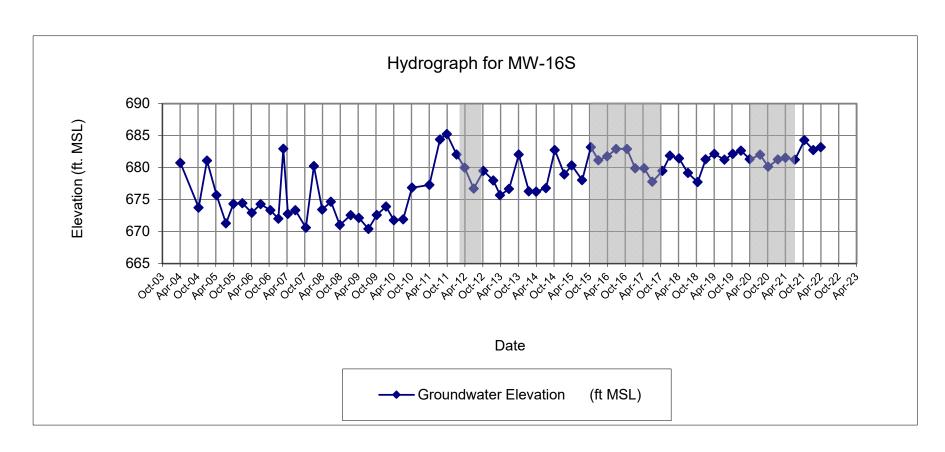
DPE system off line between November 2018 and March 2020 to accommodate ABC+ OLE injection pilot test (note

DPE system on the detection recommended of the standing on graph).

DPE-3, -4, -6, -7, -8 off line beginning September 2021 to accommodate bioaugmentation injection.

MONITORING WELL MW-16S SUMMARY OF GROUNDWATER ELEVATIONS

Former Scott Aviation Site - West of Plant 2 Lancaster, New York



MONITORING WELL MW-16D SUMMARY OF GROUNDWATER ELEVATIONS Former Scott Aviation Site - West of Plant 2 Lancaster, New York

		Groundwater Elevation (ft
Date	Depth to Water from TOC (ft)	MSL)
4/8/2004	13.62	672.39
10/12/2004	15.51	670.50
1/6/2005 4/14/2005	13.70 16.09	672.31 669.92
7/20/2005	16.65	669.36
10/4/2005	9.89	676.12
1/5/2006	17.21	668.80
4/11/2006	17.1	668.91
7/10/2006	10.61	675.4
10/18/2006	15.41	670.6
1/9/2007	15.6	670.41
2/28/2007	2.74	683.27
4/16/2007 7/2/2007	16.35	669.66 669.16
10/18/2007	16.85 17.17	668.84
1/8/2008	8.32	677.69
4/2/2008	13.44	672.57
7/1/2008	17.72	672.83
9/30/2008	19.29	671.26
1/19/2009	17.95	672.60
4/14/2009	17.21	673.34
7/21/2009	18.28	672.27
10/14/2009	17.60	672.95
1/18/2010	19.51	671.04
4/8/2010 7/12/2010	17.19 17.15	673.36
7/12/2010 10/11/2010	18.63	673.40 671.92
4/7/2011	13.67	672.34
7/25/2011	2.46	683.55
10/3/2011	1.70	684.31
1/12/2012	13.55	672.46
4/2/2012	12.61	673.40
7/5/2012	8.90	677.11
10/11/2012	13.38	672.63
1/21/2013	15.44	670.57
4/1/2013	12.31	673.70
7/1/2013 10/9/2013	16.25 11.40	669.76 674.61
1/21/2014	13.35	672.66
4/7/2014	15.54	670.47
7/16/2014	11.73	674.28
10/14/2014	10.04	675.97
1/20/2015	12.31	673.70
4/6/2015	10.30	675.71
7/22/2015	9.80	678.59
10/19/2015	6.40 13.00	681.99
1/5/2016 4/4/2016	13.00 11.35	675.39 676.81
7/5/2016	6.49	681.67
10/24/2016	6.49	681.67
1/16/2017	14.28	673.88
4/18/2017	13.24	673.88
7/11/2017	14.25	673.91
10/23/2017	14.72	673.44
1/8/2018	12.38	675.78
4/11/2018	11.67	676.49
7/12/2018 10/19/2018	14.20 14.32	673.96 673.84
1/9/2018	12.82	675.34
4/8/2019	11.78	676.38
7/22/2019	12.13	676.03
10/14/2019	11.32	676.84
1/6/2020	10.29	677.87
4/6/2020	11.54	676.62
7/21/2020	11.96	676.20
10/12/2020	13.19	674.97
1/19/2021	8.96	679.20 677.25
4/6/2021 7/13/2021	10.81 12.10	677.35 676.06
10/18/2021	9.55	678.61
1/18/2022	11.33	676.83
4/4/2022	10.25	677.91

NOTES:

ft MSL - feet mean sea level NA - Not Available

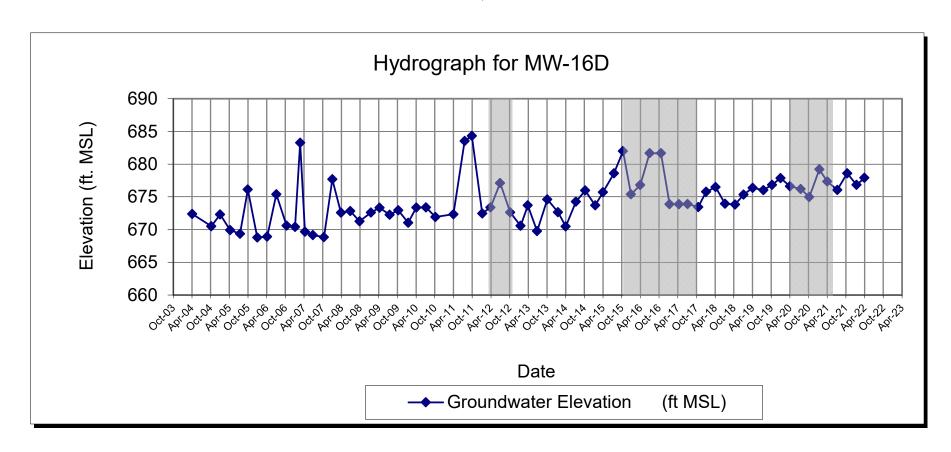
NA - Not Available
NM - Not Measured
TOC - top of PVC casing
TOC Elevation - 686.01
DPE and GWCT off line for repairs in February 2007.
DPE off line for repairs in January 2008.
DPE off line for repairs in January 2008.
DPE off line for repairs in October 2013.
TOC Elevation re-measured on June 13, 2008 at 690.55.
TOC Elevation re-measured on April 7, 2011 at 686.01.
TOC Elevation re-measured on June 1, 2015 at 688.39.
TOC Elevation re-measured on February 23, 2016 at 688.16.
DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).
DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).
DPE system off line between November 2018 and March 2020 to accommodate ABC+ OLE injection pilot test (note shading on graph).

(note shading on graph).

DPE-3, -4, -6, -7, -8 off line beginning September 2021 to accommodate bioaugmentation injection.

MONITORING WELL MW-16D SUMMARY OF GROUNDWATER ELEVATIONS

Former Scott Aviation Site - West of Plant 2
Lancaster, New York



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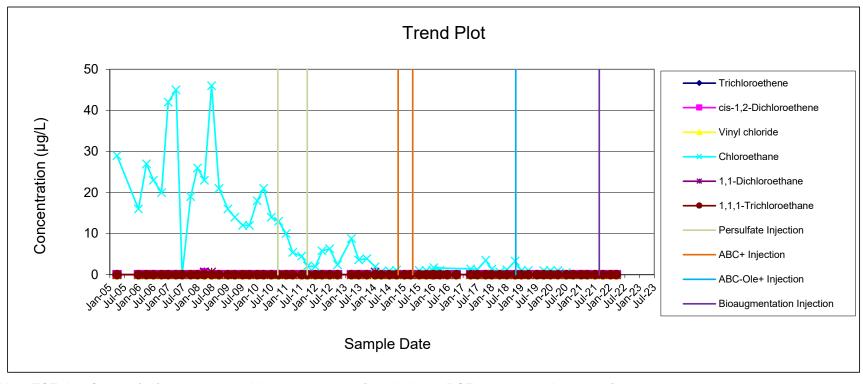
Project number: 60676130-1

Appendix D Current and Historical Summary of VOCs in Groundwater

MONITORING WELL MW-2 HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

	Analytical Results (μg/L)					
	richloroethene	cis-1,2-Dichloroethene	inyl chloride	Chloroethane	,1-Dichloroethane	1,1,1-Trichloroethane
	ichlor	s-1,2-	inyl ch	hloroe	1-Dic	1,1-T
Sample Date			< 10	29	1	
4/14/2005 1/5/2006	< 10 < 25	< 10 < 25	< 25	16	< 10 < 25	<10 < 25
4/14/2006	< 25	< 25	< 25	27	< 25	< 25
7/10/2006	< 25	< 25	< 25	23	< 25	< 25
10/19/2006	< 5	< 5	< 5	20	< 5	< 5
1/9/2007	< 5	< 5	< 5	42	< 5	< 5
4/16/2007	< 20	< 20	< 20	45	< 20	< 20
7/2/2007 10/15/2007	< 5 < 5	< 5 < 5	< 5 < 5	< 5 19	< 5 < 5	< 5 < 5
1/8/2008	< 5	< 5	< 5	26	< 5	< 5
4/2/2008	< 5	0.48	< 5	23	1	< 5
7/1/2008	< 5	< 5	< 5	46	0.65	< 5
10/1/2008	< 5	< 5	< 5	21	<5	< 5
1/20/2009	< 5	< 5	< 5	16	<5	< 5
4/15/2009	< 5 < 5	< 5	< 5	14 12	<5 <5	< 5
7/22/2009 10/12/2009	< 5 < 5	< 5 < 5	< 5 < 5	12	<5 <5	< 5 < 5
1/18/2010	< 25	< 25	< 25	18	< 25	< 25
4/7/2010	< 25	< 25	< 25	21	< 25	< 25
7/12/2010	< 25	< 25	< 25	14	< 25	< 25
10/11/2010	< 25	< 25	< 25	13	< 25	< 25
1/12/2011	<1	<1	<1	10	<1	<1
4/4/2011	<1	<1	<1	5.4	<1	<1
7/25/2011	<1	<1	<1	4.5	<1	<1
10/3/2011 1/11/2012	<1 <1	<1 <1	<1 <1	2.1	<1 <1	<1 <1
4/2/2012	<1	<1	<1	5.8	<1	<1
7/5/2012	<1	<1	<1	6.3	<1	<1
10/11/2012	<1	<1	<1	2.4	<1	<1
4/1/2013	<1	<1	<1	8.8	<1	<1
7/1/2013	<1	<1	<1	3.6	<1	<1
10/9/2013	<1	<1	<1	3.9	<1	<1
1/21/2014 4/7/2014	<1 <1	<1 <1	<1 <1	1.9 0.68	0.67 <1	<1 <1
7/16/2014	<1	<1	<1	0.00	<1	<1
10/14/2014	<1	<1	<1	1.1	<1	<1
1/20/2015	<5	<5	<5	<5	<5	<5
4/7/2015	<5	<5	<5	<5	<5	<5
7/22/2015	<1	<1	<1	1	<1	<1
10/19/2015	<1	<1	<1	1	<1	<1
1/5/2016 4/4/2016	<1 <1	<1 <1	<1 <1	1	<1 <1	<1 <1
7/5/2016	<1	<1	<1	<1	<1	<1
10/24/2016	<1	<1	<1	<1	<1	<1
1/17/2016	<1	<1	<1	1.7	<1	<1
4/20/2017	<1	<1	<1	1.4	<1	<1
7/12/2017	<1	<1	<1	1.2	<1	<1
10/23/2017	<1	<1	<1	3.5	<1	<1
1/8/2018 4/17/2018	<1 <1	<1 <1	<1 <1	1.3 0.65	<1 <1	<1 <1
7/13/2018	<1	<1	<1	1.2	<1	<1
10/24/2018	<1	<1	<1	3.3	<1	<1
1/9/2019	<1	<1	<1	1	<1	<1
4/8/2019	<1	<1	<1	1	<1	<1
7/23/2019	<2	<2	<2	<2	<2	<2
10/15/2019	<1	<1	<1	1	<1	<1
1/7/2020	<1	<1 <1	<1 <1	1	<1 <1	<1 <1
1/7/2020 4/6/2020		1		0.52	<1	<1
4/6/2020	<1 <1		<1			
	<1 <1 <2	<1 <2	<1 <2	<2	<2	<2
4/6/2020 7/21/2020	<1	<1				
4/6/2020 7/21/2020 10/14/2020 1/19/2021 4/6/2021	<1 <2 <1 <1	<1 <2 <1 <1	<2 <1 <1	<2 <1 <1	<2 <1 <1	<2 <1 <1
4/6/2020 7/21/2020 10/14/2020 1/19/2021 4/6/2021 7/13/2021	<1 <2 <1 <1 <2	<1 <2 <1 <1 <2	<2 <1 <1 <2	<2 <1 <1 <2	<2 <1 <1 <2	<2 <1 <1 <2
4/6/2020 7/21/2020 10/14/2020 1/19/2021 4/6/2021	<1 <2 <1 <1	<1 <2 <1 <1	<2 <1 <1	<2 <1 <1	<2 <1 <1	<2 <1 <1

MONITORING WELL MW-2 HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

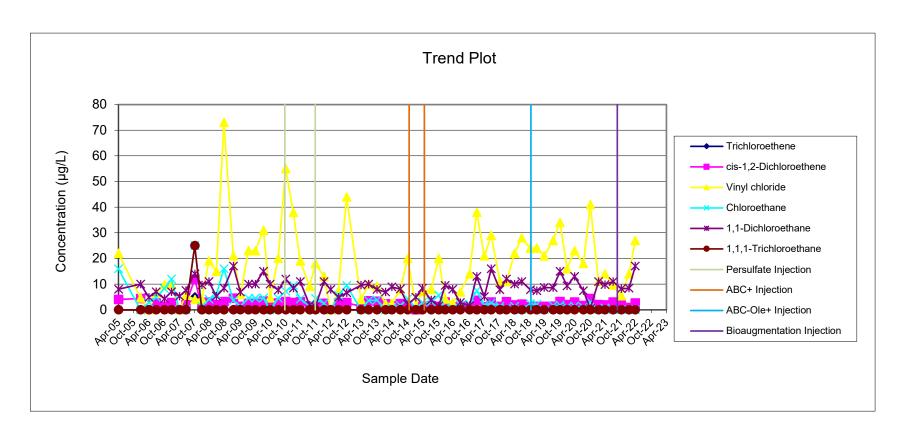


Note TCE data from 10/11/10 was reported in error as 350 µg/L and cis-1,2-DCE was reported as 25 µg/L.

MONITORING WELL MW-3 HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

			alytical R	esults (µg	/L)	
Sample	richloroethene	cis-1,2-Dichloroethene	/inyl chloride	Chloroethane	1,1-Dichloroethane	1,1-Trichloroethane
Date	L	· ö			<u>,</u>	<u>+,</u>
4/14/2005	< 10	4	22	16	8	<10
1/5/2006	< 25	4.4	4.6	< 25	10	< 25
4/14/2006	< 25	< 25	< 25	2.8	4.9	< 25
7/10/2006 10/18/2006	< 25 < 5	2.6	6.5	4.8 8.2	7 4.3	< 25
1/10/2007	< 5	1.3 2.8	9.8 9.8	12	7	< 5 < 5
4/16/2007	< 20	< 20	< 20	< 20	5.3	< 20
7/2/2007	< 5	2	5.7	< 5	7.5	< 5
10/17/2007	5	12	4	25	14	25
1/9/2008	< 5	0.9	4.2	1.2	9.7	<5
4/3/2008	<5	3	19	4.1	11	<5
7/1/2008	<5	2	15	6	5.3	<5
10/1/2008	<5	3.2	73	16	8.4	<5
1/21/2009	<5	4.5	21	3.6	17	<5
4/15/2009	<5	1.3	6	1.4	6.9	<5
7/22/2009	<5	2.5	23	4.5	10	<5
10/12/2009	<5	2.5	23	4.5	10	<5
1/18/2010	<5	3.4	31	4.6	15	<5
4/7/2010	<5	1.7	4.6	<5	10	<5
7/13/2010	<5	2.6	20	4.5	7.7	<5
10/11/2010	<5	3.2	55	7.2	12	<5
1/12/2011	<1	2.8	38	9.4	8.4	<1
4/4/2011 7/26/2011	<1 <1	3.1 0.98	19 9.1	4.2	11 1.8	<1 <1
10/3/2011	<1		18	1.5 4.4	1.0	<1
1/13/2012	<1	1.1 2.5	13	2.5	11	<1
4/2/2012	<1	<1	<1	<1	7.9	<1
7/5/2012	<1	2.7	7.2	5.6	4.9	<1
10/11/2012	<1	2.8	44	9.5	6.6	<1
4/1/2013	<1	1.3	4	<1	9.6	<1
7/1/2013	<1	3.5	10	3.6	10	<1
10/10/2013	<1	3.3	9.1	3.8	7.9	<1
1/21/2014	<1	2.3	2.3	<1	6.9	<1
4/7/2014	<1	1.5	2.5	0.82	8.9	<1
7/17/2014	<1	2.4	7.8	1.7	8.1	<1
10/14/2014	<1	0.93	20	4.3	2	<1
1/20/2015	<1	<1	1.5	0.64	4.9	<1
4/7/2015	<1	1.4	7.1	2.8	8.4	<1
7/22/2015	<1	1.6	7.9	3.1	3.8	<1
10/21/2015	<1	1.3	20	5.7	1.5	<1
1/6/2016	<1	3	4.2	0.83	9.5	<1
4/5/2016	<1	0.98	2.6	0.58	8	<1
7/5/2016	<1	1.3	6.9	1.9	2.8	<1
10/25/2016 1/19/2017	<1 <1	0.81 3.7	14 38	2.2 7.5	1.6 13	<1 <1
4/20/2017	<1	1.2	21		5.1	<1
7/12/2017	<1	3.0	29	1.8 2.7	16	<1
10/23/2017	<1	1.3	11	1.4	7.8	<1
1/10/2018	<1	3.1	11	0.72	12	<1
4/17/2018	<1	1.9	22	1.3	10	<1
7/13/2018	<1	2.2	28	<1	11	<1
10/24/2018	<1	1.1	24	2.4	7.8	<1
1/9/2019	<1	1.3	24	2.1	7.4	<1
4/8/2019	<1	1.3	21	<1	8.7	<1
7/24/2019	<1	1.4	27	1.6	8.6	<1
10/15/2019	<1	3.2	34	1.8	15	<1
1/7/2020	<1	2.0	16	1.1	9.3	<1
4/6/2020	<1	3.0	23	1.4	13	<1
7/21/2020	<1	1.6	18	1.0	7.4	<1
10/13/2020	<1 <1	4.4	41 11	3.0	0.47	<1 <1
	<1 <1	2.0	11	<1 0.70	11	<1 <1
4/6/2021 7/13/2021	<1	1.9 3.0	9.6	0.70 <1	9.8 11	<1
10/18/2021	<1	1.8	5.5	<1	8.2	<1
1/19/2022	<1	0.86	14	<1	8.4	<1
4/4/2022	<1	2.6	27	<1	17	<1

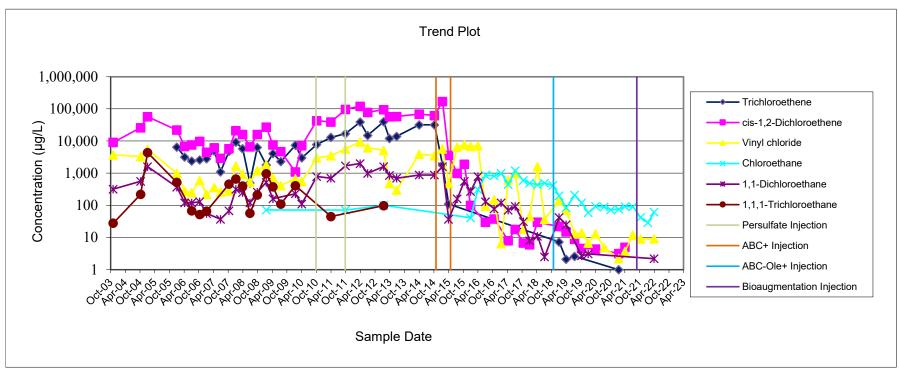
MONITORING WELL MW-3 HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York



MONITORING WELL MW-4 HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

	Analytical Results (μg/L)					
			-	"."		Φ
		cis-1,2-Dichloroethene			ЭE	i,1,1-Trichloroethane
	Φ	oei			,1-Dichloroethane	et
	en	lor	e	ЭС	petl	0.0
	eth	ic	chloride	וar	000	
	2	Ģ.	ž	etl	당	Ë
	差	1,2	Σ	orc	Ä	<u>'-</u>
Sample Date	Trichloroethene	. <u>s</u>	/inyl	Chloroethane	<u> </u>	<u></u>
11/7/2003	270	9,100	3,700	< 10	320	28
10/13/2004	8,100	26,000	3,300	< 1000	560	220
1/7/2005	20,000	57,000	5,500	< 2000	1,600	4,400
1/6/2006	6,500	22,000	1,000	< 2000	370	520
4/14/2006	3,200	6,800	280	<500	120	<500
7/10/2006	2.400	7,600	250	<500	120	68
10/18/2006	2,600	9,800	600	<5	130	52
1/10/2007	2,800	4,500	220	<400	56	66
4/17/2007	4,900		360	<500	<500	<500
		6,200				
7/3/2007	1,100	2,900	260	<200	37	<200
10/17/2007	4,800	5,800	280	<500	68	460
1/9/2008	9,200	21,000	1,700	<500	320	660
4/3/2008	5,800	16,000	940	<1200	250	400
7/2/2008	500	6,600	530	<500	120	57
10/2/2008	6,300	16,000	1,200	<500	260	210
1/22/2009	1,800	27,000	1,800	72	520	970
4/15/2009	4,100	7,600	710	<200	160	380
7/22/2009	2,300	4,700	410	<250	<250	110
1/19/2010	7,400	1,100	670	<1000	230	410
4/8/2010	3,000	7,200	560	<500	110	<500
10/11/2010	7,800	43,000	3,000	<4,000	790	<4,000
4/6/2011	13,000	39,000	3,500	<40	700	45
10/4/2011	17,000	97,000	5,700	71	1700	<1
4/3/2012	39,000	120,000	9,400	<200	2000	<200
7/6/2012	15,000	78,000	6,200	<1000	990	<1000
1/21/2013	40,000	95,000	5,100	100	1600	98
4/2/2013	12,000	57,000	480	<40	850	<40
7/1/2013	14,000	58,000	300	<100	700	<100
4/7/2014	32,000	69,000	3,900	<1000	880	<1000
10/14/2014	32,000	62,000	3,500	<1000	880	<1000
1/21/2015	1,800	170,000	5,700	<1,000	1,600	<1000
4/7/2015	110	3,600	480	<80	37	<80
7/23/2015	<100	990	6,500	<100	160	<100
10/20/2015	<100	1,900	7,600	<100	560	<100
1/6/2016	<100	100	6,800	41	270	<100
4/6/2016	<100	<100	7,200	310	790	<100
7/8/2016	<20	30	95	870	130	<20
10/25/2016	<20	38	150	830	78	<20
1/19/2017	<20	<20	7	1,000	120	<20
4/18/2017	<5 <20	8	610	450	71	<5 <20
7/13/2017		18	1,000	1,200	93	
10/23/2017	<20	7	18	600	31	<20
1/8/2018	<5	6	46	490	8	<5
4/17/2018	<20	30	1,600	440	11	<20
7/13/2018	<5	<5	37	490	2.5	<5
10/24/2018	<20	<20	<20	420	<20	<20
1/10/2019	7.3	22	140	200	42	<4
4/8/2019	2.1	15	71	84	25	<4
7/22/2019						
	2.6	9	13	210	<4	<4
10/17/2019	2.6 <4	9 4.6		120	2.7	<4
1/8/2020	2.6	9	13			
	2.6 <4	9 4.6	13 14	120	2.7	<4
1/8/2020	2.6 <4 <4	9 4.6 <4	13 14 6.8	120 59	2.7 3.1	<4 <4
1/8/2020 4/8/2020	2.6 <4 <4 <4	9 4.6 <4 4.4	13 14 6.8 13.0	120 59 93	2.7 3.1 <4	<4 <4 <4
1/8/2020 4/8/2020 7/23/2020	2.6 <4 <4 <4 <4	9 4.6 <4 4.4 <4	13 14 6.8 13.0 4.9	120 59 93 89	2.7 3.1 <4 <4	<4 <4 <4 <4
1/8/2020 4/8/2020 7/23/2020 10/14/2020	2.6 <4 <4 <4 <4 <4	9 4.6 <4 4.4 <4 <4 3.2	13 14 6.8 13.0 4.9 <4 2.2	120 59 93 89 73	2.7 3.1 <4 <4 <4	<4 <4 <4 <4 <4
1/8/2020 4/8/2020 7/23/2020 10/14/2020 1/20/2021 4/8/2021	2.6 <4 <4 <4 <4 <4 1.0	9 4.6 <4 4.4 <4 <4	13 14 6.8 13.0 4.9 <4 2.2 3.7	120 59 93 89 73 76 92	2.7 3.1 <4 <4 <4 <1	<4 <4 <4 <4 <4 <1
1/8/2020 4/8/2020 7/23/2020 10/14/2020 1/20/2021 4/8/2021 7/15/2021	2.6 <4 <4 <4 <4 <4 <4 <4 4 4 4 4 4 4 4 4 4	9 4.6 <4 4.4 <4 <4 3.2 5.0	13 14 6.8 13.0 4.9 <4 2.2	120 59 93 89 73 76	2.7 3.1 <4 <4 <4 <1 <4	<4 <4 <4 <4 <4 <1 <4
1/8/2020 4/8/2020 7/23/2020 10/14/2020 1/20/2021 4/8/2021	2.6 <4 <4 <4 <4 <1.0 <4 <4 <4	9 4.6 <4 4.4 <4 <4 3.2 5.0 <4	13 14 6.8 13.0 4.9 <4 2.2 3.7	120 59 93 89 73 76 92 91	2.7 3.1 <4 <4 <4 <1 <4 <4	<4 <4 <4 <4 <4 <1 <4 <4

MONITORING WELL MW-4 HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York



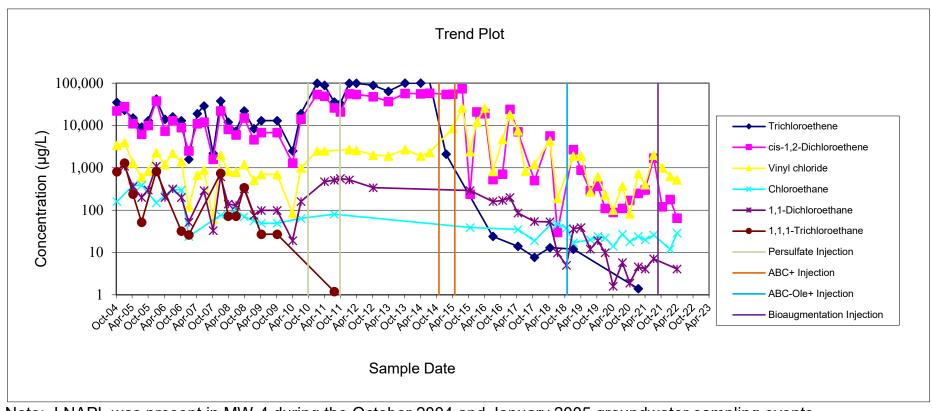
Note: LNAPL was present in MW-4 during the October 2004 and January 2005 groundwater sampling events.

MONITORING WELL MW-8R HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

	Analytical Results (μg/L)					
		cis-1,2-Dichloroethene			ne	I,1,1-Trichloroethane
	эс	roe			i,1-Dichloroethane	oeth
	richloroethene	양	Vinyl chloride	Chloroethane	ioe.	ole
	oe	Ö	ole	ath.	hlo	rich
	hloi	-,7	 	0106	Dic	<u>†</u>
Sample Date	ric	8	/in)	Shic	<u>+</u>	<u>~</u>
10/13/2004	35,000	22,000	3,400	160	< 5,000	810
1/7/2005	23,000	28,000	4,000	< 2,000	1,100	1,300
4/14/2005	15,000	11,000	1,300	380	360	240
7/21/2005 10/5/2005	9,200 13,000	6,200 10,000	600 830	390 < 1,000	200 300	52 <1,000
1/6/2006	42,000	38,000	2,300	150	1100	820
4/14/2006	14,000	7,400	1,200	220	200	< 1,000
7/10/2006	16,000	13,000	2,200	300	320	< 1,000
10/18/2006	13,000	8,900	1,400	300	200	32
1/10/2007	1,600	2,500	120	24	52	26
4/17/2007 7/3/2007	19,000 29,000	11,000 12,000	670 890	< 1,000 < 1,000	< 1,000 290	< 1,000 < 1,000
10/15/2007	2,200	1,600	60	< 200	33	< 200
1/8/2008	38,000	22,000	2,000	76	620	740
4/3/2008	12,000	8,100	820	77	140	72
7/2/2008	7,400	6,000	790	100	130	72
1/22/2008	22,000 8,400	15,000 4,600	1,200 510	70 56	320 76	340 <100
4/15/2009	13,000	6,800	700	49	99	27
10/13/2009	13,000	6,800	700	49	99	27
4/8/2010	2,500	1,300	84	<100	19	<100
7/12/2010	19,000	14,000	1,000	64	160	<100
1/12/2011	99,000	54,000	2,500	<2000	<2000	<2000
4/6/2011 7/26/2011	89,000 36,000	49,000 26,000	2,500 <800	<800 80	470 510	<800 1.2
10/4/2011	33,000	21,000	<400	<400	560	<400
1/13/2012	99,000	56,000	2,700	<800	520	<800
4/3/2012	99,000	54,000	2,600	<2000	<2000	<2000
10/12/2012	89,000	48,000	2,000	<800	340	<800
4/2/2013 10/10/2013	64,000 100,000	37,000 57,000	1,900 2,700	<1000 <1000	<1000 <1000	<1000 <1000
4/7/2014	100,000	56,000	1,900	<1000	<1000	<1000
7/17/2014	110,000	58,000	2,300	<1000	<1000	<1000
1/21/2015	2,100	54,000	<2000	<2000	<2000	<2000
4/6/2015	<2000	55,000	8,500	<2000	<2000	<2000
7/23/2015 10/21/2015	<200 <25	74,000	26,000	<200	<200 290	<200 <25
1/6/2016	<1,000	240 21,000	2,400 12,000	39 <1,000	<1,000	<1,000
4/6/2016	<1,000	19,000	26,000	<1,000	<1,000	<1,000
7/8/2016	24	530	820	<20	160	<20
10/25/2016	<100	710	4,700	<100	170	<100
1/17/2017	<100	24,000	18,000	<100	200	<100
4/18/2017 7/13/2017	14 <400	7,100 <400	7,500 840	35 <400	86 <400	<50 <400
10/24/2017	7.7	500	1,200	19	54	<10
4/18/2018	13	5,700	4,300	44	53	<20
7/13/2018	<10	30	190	47	9.8	<10
1/10/2018	<10	<10	<10	38	5.0	<10
1/10/2019 4/8/2019	12 <40	2,700 880	1,900 1,900	17 <40	36 39	<10 <40
7/22/2019	<8	290	270	20	12	<8
10/15/2019	<10	370	620	24	19	<10
1/8/2020	<10	110	230	22	9.9	<10
4/8/2020	<2	89	100	14	1.6	<2
7/22/2020 10/14/2020	<2 <2	110 170	370 82	27 18	5.8 1.9	<2 <2
1/20/2021	1	250	730	24	4.6	<1
4/7/2021	<10	300	400	20	4.1	<10
7/14/2021	<8	1,700	2,000	26	7.1	<8
10/19/2021	<25	120	1,000	<25	<25	<25
1/18/2022 4/6/2022	<25 <8	180 65	630 520	12 29	<25 4.1	<25 <8
Note well was						

Note well was not accessable during the January 2018 sampling event.

MONITORING WELL MW-8R HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

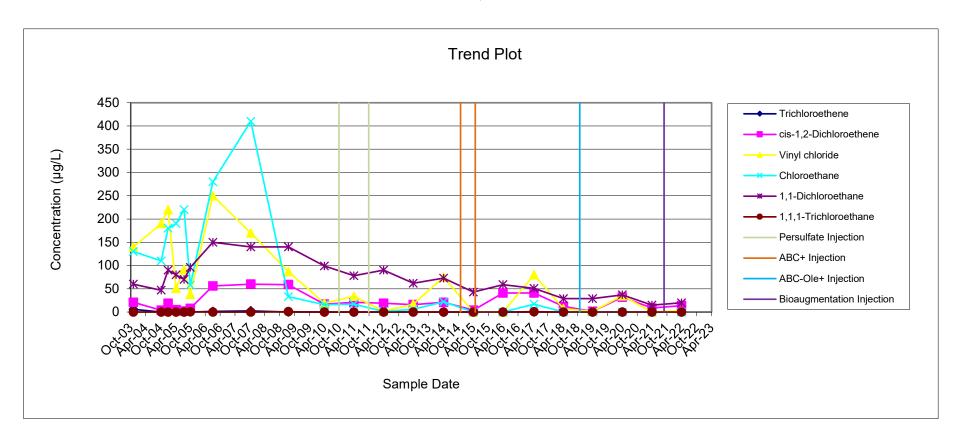


Note: LNAPL was present in MW-4 during the October 2004 and January 2005 groundwater sampling events.

MONITORING WELL MW-9 HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

	Analytical Results (μg/L)					
Sample Date	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
11/7/2003	6	21	140	130	60	< 10
10/13/2004	< 10	4	190	110	47	< 10
1/6/2005	< 10	19	220	180	90	< 10
4/14/2005	< 10	5	51	190	80	< 10
7/21/2005	< 5	2	92	220	70	< 5
10/5/2005	< 5	8	38	58	96	0.68
7/10/2006	1.3	56	250	280	150	< 5
10/17/2007	2.6	60	170	410	140	< 25
1/21/2009	<5	59	87	33	140	0.81
4/7/2010	<5	17	19	16	99	< 5
4/4/2011	<1	21	34	17	78	<1
4/2/2012	<1	19	1.8	1.5	90	<1
4/1/2013	<1	16	17	5.9	62	<1
4/7/2014	<1	21	75	22	73	<1
4/7/2015	<1	4.1	<1	<1	43	<1
4/5/2016	<1	41	<1	<1	59	<1
4/20/2017	<1	41	80	17	51	0.6
4/17/2018	<1	12	7.2	<1	29	<1
4/8/2019	<1	1.6	1.6	<1	29	<1
4/7/2020	<1	32	35	<1	37	<1
4/6/2021	<1	8.7	<1	<1	15	<1
4/4/2022	<1	14	3.2	<1	20	<1

MONITORING WELL MW-9 HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

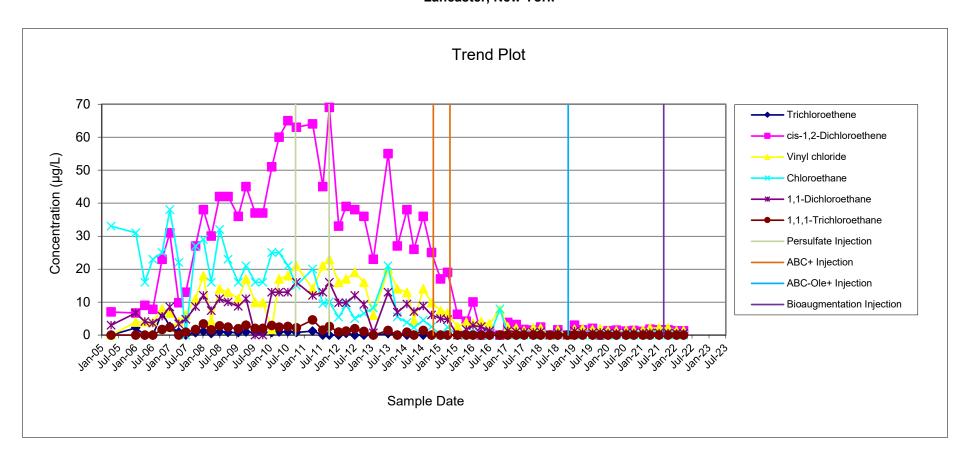


MONITORING WELL MW-11 HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

		An	alytical R	esults (µg	/L)	
Sample Date	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/14/2005	< 10	7	< 10	33	3	< 10
1/5/2006	2.2	6.7	3.9	31	6.7	<20
4/14/2006	< 20	9	4	16	4.1	< 20
7/10/2006	< 20	7.8	3.9	23	3.6	< 20
10/19/2006	6.8	23	7.9	25	5.7	1.7
1/9/2007 4/16/2007	2.6 0.89	9.8	6.7 4.1	38 22	8.5 3.4	2.3 <5
7/2/2007	< 5	13	6.1	< 5	4.8	0.84
10/16/2007	0.71	27	11	27	8.6	1.7
1/8/2008	1.1	38	18	29	12	3.4
4/2/2008	0.49	30	4.3	16	7.4	1.6
7/1/2008	1	42	14	32	11	2.8
10/2/2008	0.81	42	13	23	10	2.4
1/20/2009 4/14/2009	0.77 0.95	36 45	11 17	16 21	8.7 11	1.9
7/22/2009	0.69	37	9.9	16	<5	2
10/13/2009	0.69	37	9.9	16	<5	2
1/18/2010	0.77	51	1.7	25	13	2.9
4/7/2010	0.95	60	17	25	13	2.4
7/12/2010	1	65	18	21	13	2.6
10/11/2010	0.8	63	21	15	16	2.2
4/5/2011	1.2	64	14	20	12	4.6
7/25/2011 10/3/2011	<1 <1	45 69	21 23	9.5 10	13 16	1.5 2.6
1/12/2012	<1	33	16	5.4	9.8	0.88
4/2/2012	0.51	39	17	9.1	9.8	1.2
7/5/2012	<1	38	19	5	12	1.9
10/11/2012	<1	36	16	6.6	9.3	1.1
1/21/2013	<1	23	6	8.2	0.64	<1
7/1/2013	0.46	55	20	21	13	1.4
10/9/2013 1/21/2014	<1 <1	27 38	14 13	5.5	6.9 9.4	<1 0.85
4/7/2014	<1	26	4.3	3.8 2.3	7.1	<1
7/16/2014	<1	36	14	4.5	8.8	1.4
10/14/2014	<1	25	9.8	2.5	6.1	<1
1/20/2015	<5	17	7.4	<5	5.0	<5
4/6/2015	<2	19	6.7	2.4	4.7	<2
7/22/2015	<1	6.3	2.5	<1	<1	<1
10/26/2015 1/6/2016	<1 <1	4.2 10	3.9	<1 0.89	1.7 2.9	<1 <1
4/4/2016	<1	<1	4.1	<1	2.5	<1
7/5/2016	<1	1.3	3.4	<1	1.3	<1
10/24/2016	<1	<1	7.7	7.9	<1	<1
1/17/2017	<1	3.8	2.5	<1	1.3	<1
4/18/2017	<1	3.2	2.1	<1	1 0.70	<1
7/12/2017 10/20/2017	<1 <1	1.7 1.5	1.3 2.2	<1 <1	0.78 0.79	<1 <1
1/8/2018	<1	2.4	2.2	<1	0.79	<1
4/18/2018	<2	<2	<2	<2	<2	<2
7/12/2018	<1	1.6	1.6	<1	0.68	<1
10/24/2018	<4	<4	<4	<4	<4	<4
1/9/2019	<1	3.0	1.8	<1	1.2	<1
4/8/2019	<1	1.6	1.9	<1	0.75	<1
7/23/2019 10/15/2019	<1 <1	2.0 <1	1.7 1.9	<1 <1	0.68 0.82	<1 <1
1/7/2020	<1	1.3	1.4	<1	0.62	<1
4/6/2020	<1	1.5	1.3	<1	0.54	<1
7/21/2020	<1	1.2	1.4	<1	0.59	<1
10/13/2020	<1	1.4	1.5	<1	0.64	<1
1/19/2021	<1	1.1	1.5	<1	0.58	<1
4/6/2021	<1	1.8	2.1	<1	0.66	<1
7/13/2021 10/18/2021	<1 <1	1.6 1.6	2.2	<1 <1	0.61 0.61	<1 <1
1/19/2022	<1	1.3	1.3	<1	0.54	<1
4/5/2022	<1	1.3	1.4	<1	0.52	<1

MONITORING WELL MW-11 HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER

Former Scott Aviation Site Lancaster, New York

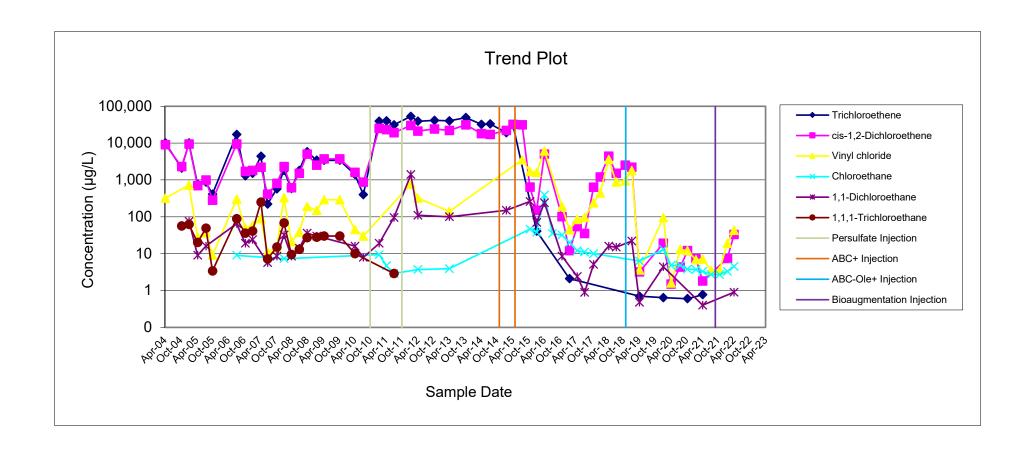


PIEZOMETER MW-13S HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

	Analytical Results (μg/L)					
	hene	cis-1,2-Dichloroethene	ep	ne	I-Dichloroethane	,1,1-Trichloroethane
Sample Date	richloroethene	is-1,2-Did	ʻinyl chloride	Chloroethane	,1-Dichlor	,1,1-Trichl
4/8/2004	10,000	9,000	320	< 100	< 100	< 100
10/12/2004	2,100	2,300	< 200	< 200	< 200	56
1/6/2005	10,000	9,400	720	< 200	75	62
4/15/2005	760	700	28	< 50	9	20
7/20/2005 10/4/2005	870 410	990 280	9.1	< 40 < 40	16 < 40	49 3.4
7/10/2006	17,000	9,400	300	9	65	88
10/19/2006	1,300	1,700	50	<100	19	36
1/10/2007	1,500	1,800	58	<100	24	41
4/17/2007	4,400	2,200	90	< 250	< 250	250
7/3/2007	220	410	11	< 25	5.7	7.2
10/18/2007	570	800	14	< 25	8.5	15
1/9/2008 4/3/2008	1800 580	2300 610	330 21	7.3 <50	32 8.5	68 9.5
7/2/2008	1,800	1,500	38	<120	14	13
10/2/2008	5,800	5,000	190	<120	36	27
1/20/2009	3,400	2,500	150	<10	30	28
4/15/2009	3,400	3,700	290	<40	<40	30
10/13/2009	3,400	3,700	290	<40	<40	30
4/7/2010 7/13/2010	1,400 400	1,600 870	45 30	<50 <50	16 7.9	10 <50
1/12/2011	39,000	25,000	<500	9.4	19	<1
4/6/2011	40,000	23,000	<800	4.7	<800	<800
7/2/2011	31,000	19,000	<800	2.9	95	2.9
1/13/2012	53,000	30,000	770	<800	1400	<800
4/3/2012	39,000	21,000	320	3.7	110	<1
10/12/2012 4/2/2013	41,000 40,000	24,000	<800 140	<800 3.9	<800 100	<800 <1
10/10/2013	49,000	31,000	<1	<1	<1	<1
4/7/2014	32,000	18,000	<500	<500	<500	<500
7/17/2014	33,000	17,000	<500	<500	<500	<500
1/21/2015	19,000	22,000	<500	<500	150	<500
4/7/2015	31,000	32,000	<500	<500	<500	<500
7/23/2015 10/20/2015	<500 <10	31,000 640	3,500 1,700	<500 46	<500 260	<500 <10
1/6/2016	41	150	1,600	38	70	<25
4/5/2016	<100	5,000	6,100	390	240	<100
7/6/2016	<4	<4	<4	35	<4	<4
10/25/2016	<2	100	190	32	8.5	<2
1/19/2017 4/19/2017	2.1 <1	12 54	44 85	20 12	<2 2.4	<2 <1
7/13/2017	<2	35	95	11	0.89	<2
10/24/2017	<5	630	240	10	5.1	<5
1/9/2018	<40	1,200	440	<40	<40	<40
4/17/2018	<40	4,400	3,600	<40	16	<40
7/13/2018	<40	1,500	880	<40	15	<40
10/24/2018 1/9/2019	<40 <40	2,500 2,200	940 1,800	<40 <40	<40 22	<40 <40
4/8/2019	0.7	3.2	4	6.3	0.48	<1
1/8/2020	0.64	19	94	13	4.4	<1
4/8/2020	<1	1.5	1.6	4.8	<1	<1
7/22/2020	<1	4.3	13	4.8	<1	<1
10/13/2020	0.60	12	12	3.8	<1	<1
1/20/2021 4/7/2021	<1 0.77	7.3 1.8	6.8 7.1	3.7	<1 0.40	<1 <1
7/14/2021	<2	<2	3.5	2.7	<2	<2
10/19/2021	<2	<2	3.5	2.7	<2	<2
1/18/2022	<2	7.4	19	3.3	<2	<2
4/5/2022	<2	33	43	4.5	0.90	<2
Note well was o	dry during t	ha luly 20	10 and Oc	tohor 2010	compling	ovente

Note well was dry during the July 2019 and October 2019 sampling events.

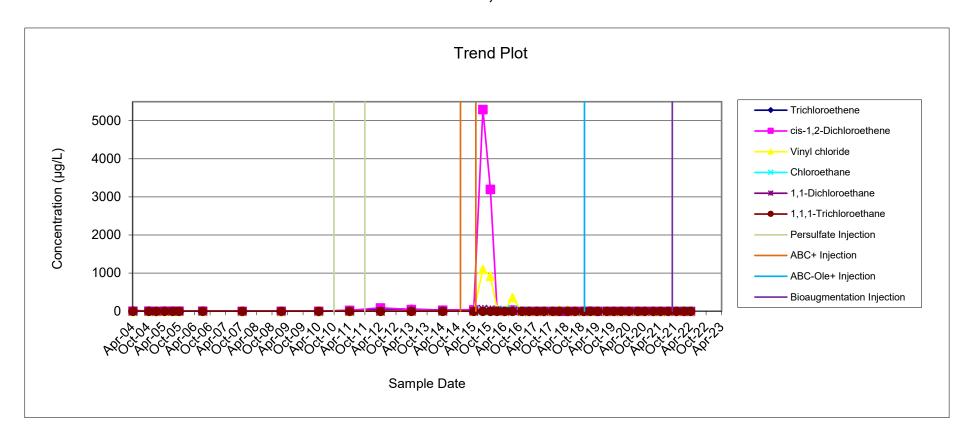
MONITORING WELL MW-13S HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York



PIEZOMETER MW-13D HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

	Analytical Results (μg/L)					
		ν cis-1,2-Dichloroethene	•	ur S		1,1,1-Trichloroethane
	Ø)	oeth			1,1-Dichloroethane	etþ
	Trichloroethene	lor	<u>e</u>	<u>ə</u>)ett	oro
	eth	ich	Vinyl chloride	Chloroethane	orc	S)
	oro	2-D	당	bet	뎐	i.E
	chle	7,	ž	lorc	Ģ	<u>+</u>
Sample Date	Tri	Ci.S.	\ In	S	<u> </u>	<u> </u>
4/8/2004	17		< 10	< 10	< 10	< 10
10/12/2004	7	2	< 10	< 10	< 10	< 10
1/6/2005	< 10	< 10	< 10	< 10	< 10	< 10
4/15/2005	8	4	< 10	< 10	< 10	< 10
7/20/2005	1	2	< 5	< 5	< 5	< 5
10/4/2005	1.4	1.5	< 5	< 5	< 5	<5
7/10/2006	2	1.6	2.6	< 5	< 5	< 5
10/18/2007	<5	0.55	1.1	< 5	< 5	< 5
1/20/2009	<5	<5	<5	<5	<5	<5
4/7/2010	<5	<5	<5	<5	<5	<5
4/6/2011	22	23	<1	<1	<1	<1
4/3/2012	62	89	2.3	<1	<1	<1
4/1/2013	53	44	2.9	<1	<1	<1
4/7/2014	30	28	1.9	<1	<1	<1
4/7/2015	40	37	<1	<1	<1	<1
7/23/2015	2	5300	1100	11	56	<1
10/20/2015	<100	3200	920	<100	42	<100
1/6/2016	<10	15	47	38	12	<10
4/6/2016	<10	<10	<10	36	<10	<10
7/6/2016	<10	34	360	51	7.8	<10
10/25/2016	0.47	1	<1	12	<1	<1
1/19/2017	<1	<1	<1	25	<1	<1
4/19/2017	<1	0.87	<1	9	<1	<1
7/13/2017	<1	<1	<1	13	<1	<1
10/24/2017	<1	<1	<1	6.9	<1	<1
1/9/2018	<1	1.1	39	9.9	0.73	<1
4/18/2018	<1	1	39	6.5	<1	<1
7/13/2018	<1	<1	<1	5.5	<1	<1
10/24/2018	<1	<1	<1	4.2	<1	<1
1/10/2019	<1	1.6	1.2	7.4	<1	<1
4/8/2019	<1	<1	18	9.8	<1	<1
7/24/2019	<1	<1	<1	0.73	<1	<1
10/15/2019	<1	<1	<1	4.5	<1	<1
1/8/2020	<1	<1	<1	2.5	<1	<1
4/8/2020	<1	<1	4.0	2.9	<1	<1
7/22/2020	<1	<1	<1	2.8	<1	<1
10/13/2020	<1	<1	<1	3.5	<1	<1
1/20/2021	<1	<1	<1	2.4	<1	<1
4/15/2021	<1	<1	<1	2.6	<1	<1
7/14/2021	<1	<1	<1	2.2	<1	<1
10/19/2021	<1	<1	<1	2.2	<1	<1
1/18/2022	<1	<1	9.2	19	<1	<1
4/5/2022	<1	<1	1.4	12	<1	<1

PIEZOMETER MW-13D HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

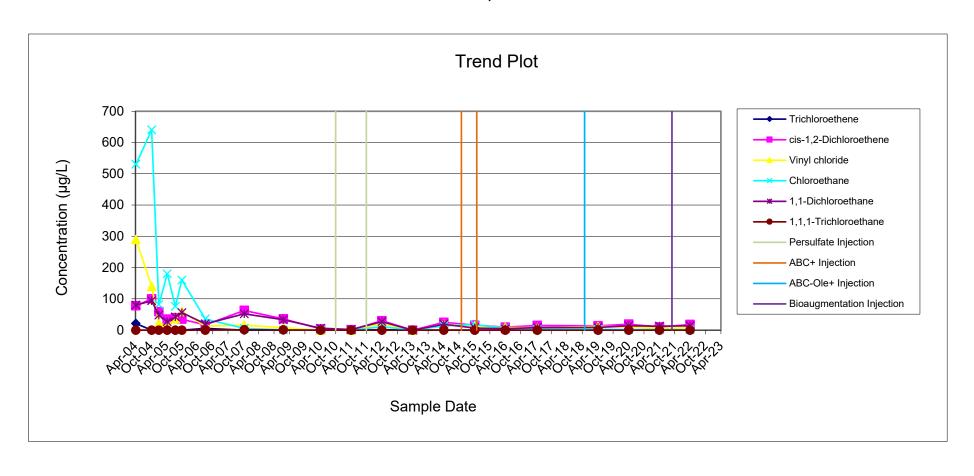


PIEZOMETER MW-14S HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

	Analytical Results (µg/L)					
Sample Date	Trichloroethene	cis-1,2-Dichloroethene	S Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/8/2004	21	78	290	530	80	< 20
10/12/2004	< 10	100	140	640	94	< 10
1/6/2005	< 10	59	22	82	48	< 10
4/15/2005	< 10	35	15	180	27	< 10
7/20/2005	< 5	39	36	76	42	< 5
10/5/2005	< 5	35	59	160	56	<5
7/10/2006	5.7	17	13	36	20	< 25
10/15/2007	< 5	63	16	5.7	52	1.3
1/21/2009	0.38	36	7.9	0.87	33	0.63
4/8/2010	< 5	4	< 5	0.62	5.9	<5
4/5/2011	< 1	1.1	<1	<1	1.9	<1
4/2/2012	1.3	30	21	11	27	<1
4/1/2013	<1	<1	<1	<1	<1	<1
4/7/2014	<1	25	19	14	19	<1
4/7/2015	<1	16	14	18	6.8	<1
4/5/2016	<1	9.6	8.9	6.3	4.4	<1
4/18/2017	<1	15	7.8	2.8	8.1	<1
4/10/2019	<1	14	12	2.7	8.9	<1
4/7/2020	<1	19	10	1.8	14	<1
4/7/2021	<1	10	6.0	1.9	13	<1
4/4/2022	<1	18	7.2	1.0	14	<1

Well was flooded and not sampled in April 2018.

PIEZOMETER MW-14S HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

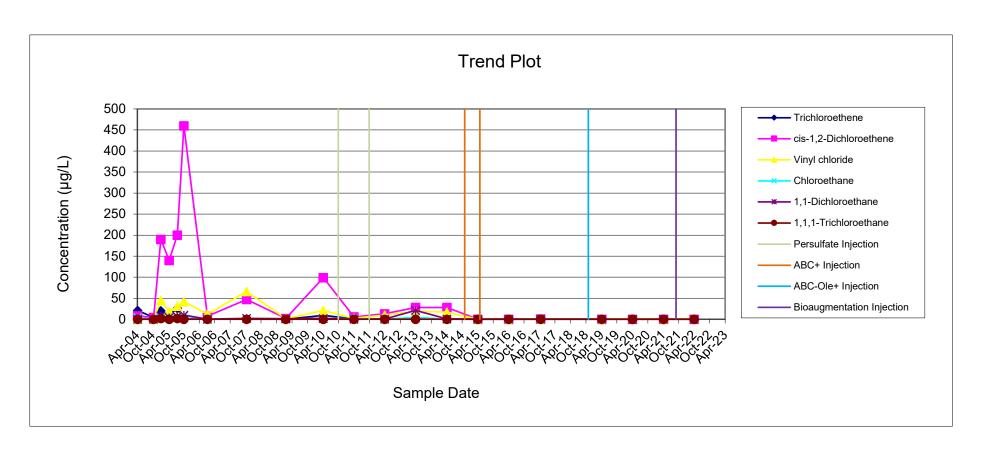


PIEZOMETER MW-14D HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

	Analytical Results (μg/L)					
Sample Date	Trichloroethene	α cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/8/2004	21		< 10	4	< 10	< 10
10/12/2004	4	4	< 10	< 10	< 10	< 10
1/6/2005	20	190	45	3	8	2
4/15/2005	10	140	18	6	4	< 10
7/20/2005	26	200	31	4	7	2
10/5/2005	< 10	460	42	7.2	9.9	<10
7/10/2006	0.96	7.2	12	0.82	< 5	< 5
10/15/2007	< 5	47	66	1.8	2.2	< 5
1/21/2009	<5	2	1.4	0.91	1.3	< 5
4/8/2010	9.4	99	21	1.5	2	< 5
4/5/2011	0.97	5.6	2.6	1.5	<1	<1
4/2/2012	0.64	13	9.9	<1	0.44	<1
4/1/2013	0.99	28	19	4.6	21	<1
4/7/2014	<1	28	17	<1	0.82	<1
4/7/2015	<1	<1	<1	<1	<1	<1
4/5/2016	<1	<1	<1	<1	<1	<1
4/18/2017	<1	0.65	<1	<1	<1	<1
4/10/2019	<1	<1	<1	<1	<1	<1
4/7/2020	<1	<1	1.7	<1	<1	<1
4/7/2021	<1	<1	<1	<1	<1	<1
4/4/2022	<1	<1	1.7	<1	<1	<1

Well was flooded and not sampled in April 2018.

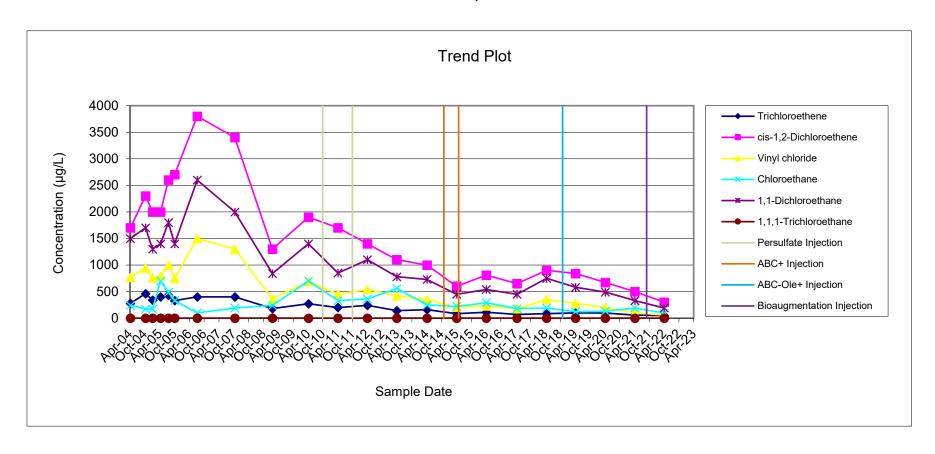
PIEZOMETER MW-14D HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York



PIEZOMETER MW-15S HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

	Analytical Results (μg/L)					
Sample Date	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/8/2004	280	1,700	770	240	1,500	< 250
10/12/2004	460	2,300	940	170	1,700	< 250
1/7/2005	340	2,000	760	170	1,300	< 250
4/15/2005	400	2,000	790	700	1,400	< 200
7/21/2005	430	2,600	1,000	490	1,800	< 120
10/5/2005	330	2,700	750	330	1,400	<100
7/10/2006	400	3,800	1,500	100	2,600	< 25
10/16/2007	400	3400	1300	190	2000	< 200
1/21/2009	180	1300	360	240	840	<5
4/8/2010	270	1900	690	700	1400	<10
4/7/2011	200	1700	450	330	850	<1
4/3/2012	240	1400	540	360	1100	<1
4/1/2013	140	1100	420	560	780	<20
4/7/2014	160	1000	350	250	730	<20
4/6/2015	85	600	210	220	450	<20
4/6/2016	110	810	230	290	540	<20
4/19/2017	70	650	180	180	450	<5
4/18/2018	85	900	350	190	750	<20
4/10/2019	98	840	280	120	580	<20
4/10/2020	95	670	200	130	490	<20
4/8/2021	58	500	100	190	330	<20
4/5/2022	47	300	60	95	190	<20

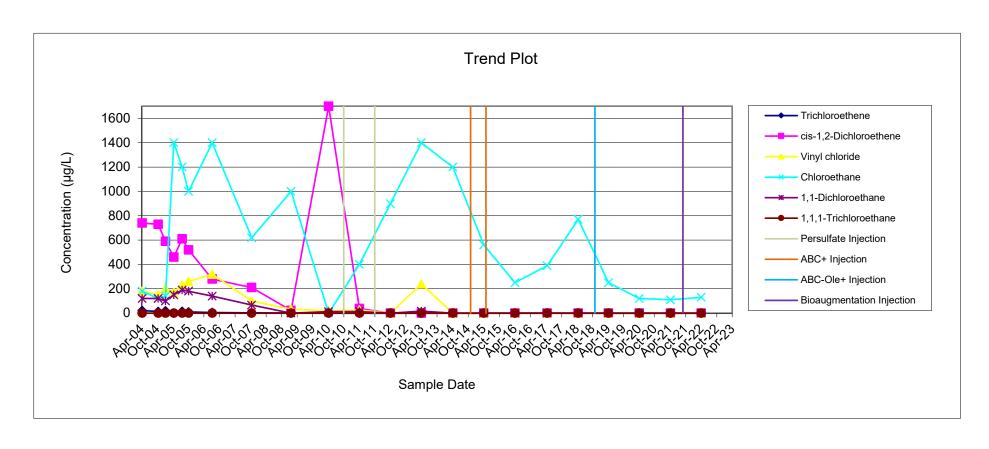
PIEZOMETER MW-15S HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York



PIEZOMETER MW-15D HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

	Analytical Results (μg/L)					
Sample Date	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/8/2004	21	740	180	180	120	< 10
10/12/2004	14	730	150	120	120	< 50
1/7/2005	18	590	200	140	100	< 50
4/15/2005	< 50	460	170	1,400	150	< 50
7/21/2005	15	610	230	1,200	190	< 25
10/5/2005	10	520	260	1,000	180	<50
7/10/2006	4.9	280	320	1,400	140	< 5
10/16/2007	3.6	210	99	620	66	< 5
1/21/2009	<25	22	32	1000	<25	<25
4/8/2010	<5	1700	19	<5	12	<5
4/5/2011	<8	38	26	400	13	<8
4/3/2012	<10	<10	<10	900	<10	<10
4/1/2013	<8	<8	240	1400	16	<8
4/7/2014	<20	<20	<20	1200	<20	<20
4/6/2015	<20	<20	<20	560	<20	<20
4/6/2016	<5	<5	<5	250	<5	<5
4/19/2017	<1	<1	<1	390	0.35	<1
4/19/2018	<5	<5	<5	770	<5	<5
4/10/2019	<8	<8	<8	250	<8	<8
4/6/2020	<2	<2	<2	120	<2	<2
4/8/2021	<2	<2	<2	110	<2	<2
4/5/2022	<2	<2	<2	130	<2	<2

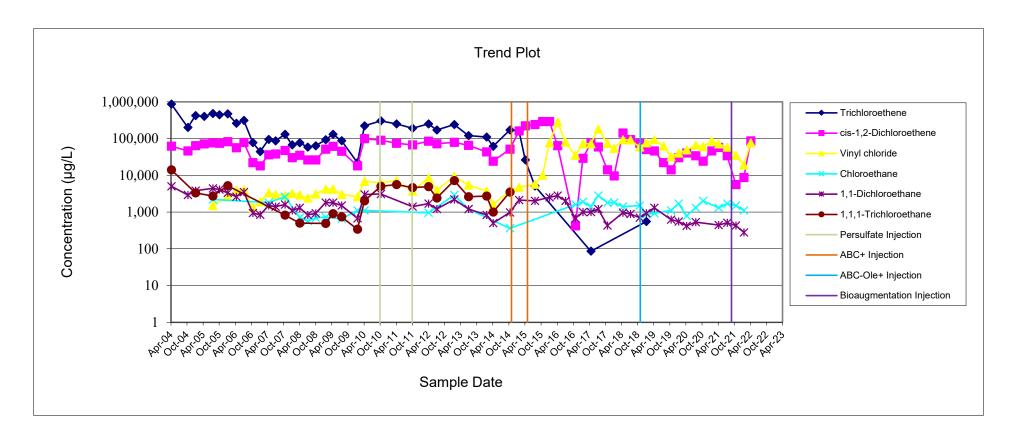
PIEZOMETER MW-15D HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York



PIEZOMETER MW-16S HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

	Analytical Results (μg/L)							
		cis-1,2-Dichloroethene				ne		
		ethe			i,1-Dichloroethane	,1,1-Trichloroethane		
	richloroethene	oro	a)	Φ	etha	roe		
	the state of	튱	/inyl chloride	Chloroethane	010	임		
	õ	Ģ	皇	eth	낽	i2i		
	읉	2,1	5	oro	Ϊ́	7		
Sample Date	F	.5	Ë	S I	<u>+</u> ,	<u>-</u>		
4/8/2004	860,000	62,000	< 20,000	< 20,000	5,000	14,000		
10/12/2004	200,000	46,000	< 10,000	< 10,000	2,900	< 10,000		
1/7/2005	420,000	64,000	< 10,000	< 10,000	3,800	3,300		
4/15/2005	400,000	71,000	< 25,000	< 25,000	< 25,000	< 25,000		
7/21/2005	480,000 440,000	76,000	1,500	2,200	4,400	2,700		
10/5/2005 1/6/2006	470,000	74,000 82,000	< 25,000 2.600	< 25,000 < 20,000	4,100 3,300	< 25,000 5,200		
4/14/2006	260,000	56,000	3,900	< 20,000	2,600	< 20,000		
7/10/2006	310,000	78,000	4,000	< 20,000	3,500	< 20,000		
10/19/2006	77,000	22,000	1,300	< 5,000	940	< 5,000		
1/10/2007	44,000	18,000	1,900	< 2,500	840	< 2,500		
4/17/2007	94,000	36,000	3,300	1,800	1,500	< 5,000		
7/3/2007	86,000	38,000	3,000	< 5,000	1,400	< 5,000		
10/18/2007	130000	47000	2800	2600	1600	820		
1/8/2008 4/3/2008	67000 76,000	30000 35,000	3200 2,900	< 5000 710	1100 1,300	< 5000 500		
7/2/2008	58,000	26,000	2,400	570	830	<5000		
10/2/2008	63,000	26,000	3,100	690	920	<5000		
1/22/2009	92,000	51,000	4,200	730	1,800	490		
4/15/2009	130,000	61,000	4,200	<2000	1,800	900		
7/22/2009	87,000	45,000	3,000	650	1,500	740		
1/19/2010	22,000	18,000	2,600	1,100	670	340		
4/8/2010	220,000	99,000	6,800	1,100	3,000	2,000		
10/11/2010	300,000	90,000	6,300	<20,000	3,100 <4.000	5,000		
4/7/2011 10/4/2011	250,000 190,000	74,000 67,000	7,100 3,700	<4,000 <800	1,400	5,600 4,600		
4/3/2012	250,000	84,000	8,400	960	1,700	4,900		
7/6/2012	170,000	72,000	3,900	<2000	1,200	2,400		
1/21/2013	240,000	79,000	9,300	2,900	2,200	7,200		
7/1/2013	120,000	65,000	5,400	1,200	1,200	2,600		
1/22/2014	110,000	43,000	3,700	<2,000	830	2,700		
4/7/2014	61,000	24,000	1,600	<1000	500	1,000		
10/14/2014 1/26/2015	170,000 160,000	51,000 160,000	3,800 4,700	360 <4,000	980 2,100	3,500 <4,000		
4/7/2015	26,000	220,000	<4,000	<4,000	<4,000	<4,000		
7/24/2015	5,100	240,000	5,700	<4,000	2,000	<4,000		
10/20/2015	<4,000	290,000	10,000	<4,000	<4,000	<4,000		
1/6/2016	<4,000	290,000	76,000	<4,000	2,500	<4,000		
4/7/2016	<4,000	64,000	280,000	<4,000	2,800	<4,000		
7/5/2016	<2,000	<2,000	80,000	<2,000	2,000	<2,000		
10/26/2016	<500 <500	420	35,000	1,600	670	<500 <500		
1/19/2017 4/20/2017	<500 86	29,000 75,000	72,000 72,000	1,900 1,400	1,000	<500 <200		
7/13/2017	<1,000	59,000	180,000	2,800	1,200	<200		
10/24/2017	<500	14,000	73,000	1,800	430	<500		
1/9/2018	<1,000	9,600	54,000	1,800	<1,000	<1,000		
4/18/2018	<1,000	140,000	92,000	1,400	960	<1,000		
7/13/2018	<1,000	93,000	91,000	<1,000	880	<1,000		
10/25/2018	<1,000	73,000	59,000	1,500	700	<1,000		
1/9/2019 4/9/2019	550 <1,000	50,000 46,000	76,000 92,000	870 920	930 1,300	<1,000 <1,000		
7/23/2019	<2,500	22,000	62,000	<2,500	<2,500	<2,500		
10/17/2019	<1,000	14,000	32,000	1,100	620	<1,000		
1/9/2020	<1,000	30,000	40,000	1,700	550	<1,000		
4/10/2020	<1	40,000	49,000	780	420	<1		
7/23/2020	<1	34,000	66,000	1,300	530	<1		
10/14/2020	<1,000	24,000	60,000	2,000	<1,000	<1,000		
1/20/2021 4/7/2021	<1,000	46,000	85,000	<1,000	<1,000	<1,000		
7/14/2021	<1,000 <1,000	57,000 34,000	71,000 58,000	1,300 1,700	440 510	<1,000 <1,000		
10/20/2021	<1,000	5,600	35,000	1,700	430	<1,000		
1/20/2022	<1,000	8,700	19,000	1,100	280	<1,000		
4/7/2022	<2,000	86,000	76,000	<2,000	<2,000	<2,000		

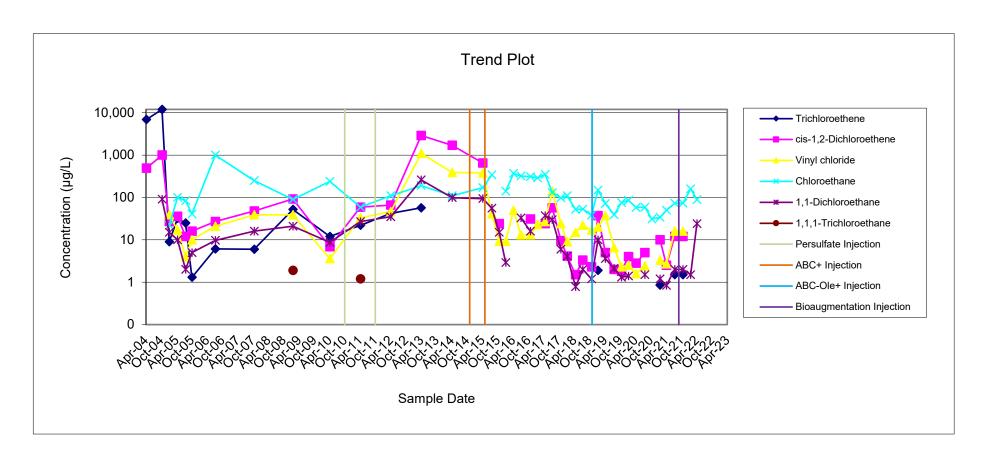
MONITORING WELL MW-16S HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York



PIEZOMETER MW-16D HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York

		An	alytical R	esults (µg	/L)	
		cis-1,2-Dichloroethene	•		•	1,1,1-Trichloroethane
	O	oet			,1-Dichloroethane	eth
	ien	llor	e	e e	net#	oro
	eth	ich	oric	har	orc	i,
	oro	2-D	등	oetl	chl	iż
	richloroethene	-1,2	Vinyl chloride	Chloroethane	Ģ	7
Sample Date	Tric	cis	\ In	Ch	_	7,
4/8/2004	6,900	490	< 500	< 500	< 500	< 500
10/12/2004	12,000	1,000	< 500	< 500	91	< 500
1/6/2005	9	27	39	22	15	< 10
4/15/2005	32	36	17	100	10	< 10
7/21/2005	25	12	4	84	2	< 10
10/5/2005	1.3	16	10	41	5	<5
7/10/2006	6.1	27	21	1,000	9.7	< 5
10/18/2007	6	48	39	250	16	< 20
1/22/2009	52	92	39	90	21	1.9
4/8/2010	12	6.9	3.6	240	8.7	< 10
4/7/2011	22	59	33	59	27	1.2
4/3/2012	42	66	46	110	35	<1
4/1/2013	57	2900	1100	190	260	<1
4/7/2014	<25	1700	390	110	99	<25
4/7/2015	<25	650	380	170	94	<25
7/23/2015	<25	<25	41	340	56	<25
10/20/2015	<10	24	9.2	<10	15	<10
1/6/2016	<5	<5	9.2	140	2.9	<5
4/7/2016	<10	<10	50	370	<10	<10
7/5/2016	<10	<10	13	320	33	<10
10/26/2016	<10	31	13	310	16	<10
1/19/2017	<10	<10	23	290	<10	<10
4/20/2017	<1	24	27	350	37	<1
7/13/2017	<5	57	140	130	30	<5
10/24/2017	<1	9.6	24	98	6	<1
1/8/2018	<1	4.1	9.0	110	4.1	<1
4/18/2018	<1	1.5	15	52	0.78	<1
7/13/2018	<1	3.3	22	53	2.0	<1
10/25/2018	<1	2.3	17	38	1.2	<1
1/10/2019	1.9	37	20	150	10.0	<1
4/8/2019	<2	5.0	37	72	3.6	<2
7/22/2019	<1	2.0	6.5	39	2.1	<1
10/17/2019	<1	1.8	2.3	76	1.3	<1 <1
1/9/2020	<1	4.0	2.5	86	1.4	
4/9/2020 7/23/2020	<1 <1	2.8 5.0	1.6 2.4	58 59	<1 1.5	<1 <1
10/14/2020	<1	5.0 <1	2.4 <1	31	1.5 <1	<1
	-		·	34	1.2	<1
1/20/2021	0.85	10	3.3	_		-
4/7/2021 7/14/2021	<1 1 5	2.5 12	2.7	50	0.84	<1 <1
10/20/2021	1.5 1.5	12	16 16	73 73	2	<1
1/20/2021	1.5 <1	<1	<1	160	1.5	<1
4/6/2022	<2	<2	<2	89	24.0	<2
4/0/2022	~2	~∠	~2	69	24.0	^2

PIEZOMETER MW-16D HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER Former Scott Aviation Site Lancaster, New York



on CD)

Appendix E Analytical Laboratory Data Packages (Provided

Project number: 60676130-1



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-196417-1

Client Project/Site: Scott Figgie West of Plant 2

For:

AFCOM One John James Audubon Parkway Suite 210 Amherst, New York 14228

Attn: Mr. Dino Zack

Authorized for release by: 4/25/2022 1:53:59 PM

Rebecca Jones, Project Management Assistant I Rebecca.Jones@et.eurofinsus.com

Designee for

Brian Fischer, Manager of Project Management (716)504-9835

Brian.Fischer@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: AECOM

Project/Site: Scott Figgie West of Plant 2

Laboratory Job ID: 480-196417-1

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Definitions/Glossary

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Qualifiers

	S		

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

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.

GC 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.

General Chemistry

Qualifier **Qualifier Description**

В Compound was found in the blank and sample.

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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 Contains Free Liquid **CFL** 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) Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDI 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) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Job ID: 480-196417-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-196417-1

Comments

No additional comments.

Receipt

The samples were received on 4/5/2022 5:35 PM, 4/6/2022 4:15 PM, 4/7/2022 4:15 PM and 4/7/2022 6:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 2.4° C, 3.2° C, 6.0° C, 7.9° C and 7.9° C.

Receipt Exceptions

Lab received only VOA vials for MW-13S, which had a MS/MSD assigned.. One vial was used for 13S and MS/MSD: MW-13S (480-196417-1).

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-15D (480-196420-9). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-13S (480-196417-1), MW-13S (480-196417-1[MS]), MW-13S (480-196420-1) and MW-15S (480-196420-8). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-620665 recovered above the upper control limit for 2-Hexanone, trans-1,3-Dichloropropene, 4-Methyl-2-pentanone (MIBK) and 2-Butanone (MEK). The samples associated with this CCV were non-detects or below the reporting limits (RL) for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-13S (480-196417-1), MW-11 (480-196417-2), MW-2 (480-196420-1), MW-3 (480-196420-2), MW-13D (480-196420-3), Duplicate (480-196420-4), MW-9 (480-196420-5), MW-14S (480-196420-6), MW-14D (480-196420-7), MW-15S (480-196420-8), MW-15D (480-196420-9) and Trip Blank (480-196420-10).

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-620665 were outside control limits. Sample matrix interference is suspected.

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-620665 recovered outside control limits for the following analyte: 2-Hexanone. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The associated samples are impacted: MW-13S (480-196417-1), MW-11 (480-196417-2), MW-2 (480-196420-1), MW-3 (480-196420-2), MW-13D (480-196420-3), Duplicate (480-196420-4), MW-9 (480-196420-5), MW-14S (480-196420-6), MW-14D (480-196420-7), MW-15S (480-196420-8), MW-15D (480-196420-9) and Trip Blank (480-196420-10).

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: DPE-1 (480-196479-1).

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: DPE-1 (480-196479-1), DPE-3 (480-196479-3) and DPE-5 (480-196479-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: DPE-4 (480-196479-4), DPE-7 (480-196479-7), DPE-8 (480-196479-8), (480-196479-A-8 MS) and (480-196479-A-8 MSD). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-620879 recovered above the upper control limit for 2-Hexanone and 2-Butanone (MEK). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: DPE-1 (480-196479-1), DPE-2 (480-196479-2), DPE-3 (480-196479-3), DPE-4 (480-196479-4), DPE-5 (480-196479-5), DPE-6 (480-196479-6), DPE-7 (480-196479-7), DPE-8 (480-196479-8), GWCT

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Case Narrative

Client: AECOM

Project/Site: Scott Figgie West of Plant 2

Job ID: 480-196417-1

Job ID: 480-196417-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

(480-196479-9) and Rinse Blank (480-196479-10).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-620879 recovered outside control limits for the following analytes: 2-Hexanone and 4-Methyl-2-pentanone (MIBK). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-620879 were outside control limits. Sample matrix interference is suspected.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-16D (480-196481-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-620950 recovered above the upper control limit for 2-Butanone (MEK), 2-Hexanone and 4-Methyl-2-pentanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: MW-16D (480-196481-3).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-620950 recovered outside control limits for the following analyte: 2-Hexanone. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The associated sample is impacted: MW-16D (480-196481-3).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-620950 recovered outside acceptance criteria, low biased, for Methylene Chloride and trans-1,2-Dichloroethene. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported. The associated sample is impacted: MW-16D (480-196481-3).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-8R (480-196481-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-621199 recovered above the upper control limit for Chlorodibromomethane and 2-Hexanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-4 (480-196481-1) and MW-8R (480-196481-2).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-622005 recovered above the upper control limit for 1,1,1-Trichloroethane, 1,2-Dibromo-3-Chloropropane, 2-Hexanone, Bromoform, Dibromochloromethane, Bromodichloromethane and cis-1,3-Dichloropropene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: MW-16S (480-196549-1).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-622005 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane, 2-Hexanone, Bromoform, Dibromochloromethane, and Bromodichloromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The associated sample is impacted: MW-16S (480-196549-1).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-16S (480-196549-1). 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.

HPLC/IC

Method 300.0: The following samples were diluted due to the abundance of non-target analytes: MW-13S (480-196417-1) and MW-11 (480-196417-2). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-4 (480-196481-1) and MW-8R (480-196481-2). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was diluted due to the abundance of non-target analytes: MW-4 (480-196481-1). Elevated reporting

Case Narrative

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Job ID: 480-196417-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

limits (RLs) are provided.

Method 300.0: The following sample was diluted due to the abundance of non-target analytes: MW-16D (480-196481-3). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was diluted due to the abundance of non-target analytes: MW-16S (480-196549-1). 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 VOA

Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-13S (480-196417-1) and MW-11 (480-196417-2). Elevated reporting limits (RLs) are provided.

Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-4 (480-196481-1), MW-8R (480-196481-2) and MW-16D (480-196481-3). Elevated reporting limits (RLs) are provided.

Method RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-16S (480-196549-1). Elevated reporting limits (RLs) are provided.

Method RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-16S (480-196549-1). 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.

Metals

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

General Chemistry

Method SM 3500 FE D: 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: MW-13S (480-196417-1), MW-11 (480-196417-2), MW-4 (480-196481-1), MW-8R (480-196481-2), MW-16D (480-196481-3) and MW-16S (480-196549-1).

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

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Eurofins Buffalo 4/25/2022

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-13S

Lab Sample ID: 480-196417-1 Date Collected: 04/05/22 14:40

Matrix: Water

Date Received: 04/05/22 17:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			04/06/22 23:42	
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			04/06/22 23:42	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			04/06/22 23:42	
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			04/06/22 23:42	
1,1-Dichloroethane	0.90	J	2.0	0.76	ug/L			04/06/22 23:42	
1,1-Dichloroethene	ND		2.0	0.58	ug/L			04/06/22 23:42	
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			04/06/22 23:42	
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			04/06/22 23:42	
1,2-Dibromoethane	ND	F1	2.0	1.5	ug/L			04/06/22 23:42	
1,2-Dichlorobenzene	ND		2.0		ug/L			04/06/22 23:42	
1,2-Dichloroethane	ND	F1	2.0		ug/L			04/06/22 23:42	
1,2-Dichloropropane	ND	F1	2.0	1.4	ug/L			04/06/22 23:42	
1,3-Dichlorobenzene	ND		2.0		ug/L			04/06/22 23:42	
1,4-Dichlorobenzene	ND		2.0		ug/L			04/06/22 23:42	
2-Butanone (MEK)	ND		20		ug/L			04/06/22 23:42	
2-Hexanone	ND	F1 *+	10		ug/L			04/06/22 23:42	
4-Methyl-2-pentanone (MIBK)	ND	F1	10		ug/L			04/06/22 23:42	
Acetone	ND		20		ug/L			04/06/22 23:42	
Benzene	ND		2.0	0.82				04/06/22 23:42	
Bromodichloromethane	ND	F1	2.0	0.78	-			04/06/22 23:42	
3romoform	ND		2.0	0.52	-			04/06/22 23:42	
3romomethane	ND		2.0		ug/L			04/06/22 23:42	
Carbon disulfide	ND		2.0	0.38	-			04/06/22 23:42	
Carbon tetrachloride	ND		2.0		ug/L			04/06/22 23:42	
Chlorobenzene	ND		2.0		ug/L			04/06/22 23:42	
Chloroethane	4.5		2.0	0.64				04/06/22 23:42	
Chloroform	ND.		2.0		ug/L			04/06/22 23:42	
Chloromethane	ND		2.0		ug/L			04/06/22 23:42	
cis-1,2-Dichloroethene		F1	2.0		ug/L			04/06/22 23:42	
cis-1,3-Dichloropropene	ND	•	2.0	0.72	-			04/06/22 23:42	
Cyclohexane	ND		2.0		ug/L			04/06/22 23:42	
Dibromochloromethane	ND		2.0		ug/L			04/06/22 23:42	
Dichlorodifluoromethane	ND		2.0		ug/L			04/06/22 23:42	
Ethylbenzene	ND		2.0		ug/L			04/06/22 23:42	
sopropylbenzene	ND		2.0		ug/L			04/06/22 23:42	
Methyl acetate	ND		5.0		ug/L			04/06/22 23:42	
Methyl tert-butyl ether	ND		2.0		ug/L			04/06/22 23:42	
	ND ND		2.0		ug/L ug/L			04/06/22 23:42	
Methylcyclohexane	ND ND		2.0		ug/L ug/L			04/06/22 23:42	
Methylene Chloride	ND				-				
Styrene		ГІ	2.0		ug/L			04/06/22 23:42	
Tetrachloroethene Toluene	ND ND		2.0		ug/L			04/06/22 23:42	
			2.0		ug/L			04/06/22 23:42	
rans-1,2-Dichloroethene	ND	Γ4	2.0		ug/L			04/06/22 23:42	
rans-1,3-Dichloropropene	ND	ГΊ	2.0		ug/L			04/06/22 23:42	
Trichloroethene	ND		2.0		ug/L			04/06/22 23:42	
Trichlorofluoromethane	ND		2.0		ug/L			04/06/22 23:42	
Vinyl chloride Xylenes, Total	43 ND	F1 F2	2.0 4.0		ug/L ug/L			04/06/22 23:42 04/06/22 23:42	

Eurofins Buffalo

4/25/2022

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-13S

Date Received: 04/05/22 17:35

Lab Sample ID: 480-196417-1 Date Collected: 04/05/22 14:40

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			77 - 120					04/06/22 23:42	2
4-Bromofluorobenzene (Surr)	101		73 - 120					04/06/22 23:42	2
Toluene-d8 (Surr)	98		80 - 120					04/06/22 23:42	2
Dibromofluoromethane (Surr)	91		75 - 123					04/06/22 23:42	2
_ Method: RSK-175 - Dissolv	ed Gases (GC)	1							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	61000		5000	3800	ug/L			04/08/22 08:39	1
Ethane	950		830	170	ug/L			04/06/22 14:48	110
Ethene	340	J	770	170	ug/L			04/06/22 14:48	110
Methane	30000		440	110	ug/L			04/06/22 14:48	110
Method: 200.7 Rev 4.4 - Me	tals (ICP)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11.4		0.050	0.019	mg/L		04/07/22 09:28	04/07/22 17:13	1

Method: 200.7 Rev 4.4 - Metals	(ICP) - Dissolved						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.12	0.050	0.019 mg/L		04/11/22 14:15	04/13/22 22:02	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	4.4	J	10.0	1.7	mg/L			04/08/22 14:45	5
Alkalinity, Total	459		60.0	24.0	mg/L			04/06/22 17:42	6
Nitrate as N	ND		0.050	0.020	mg/L			04/06/22 11:38	1
Nitrite as N	ND		0.050	0.020	mg/L			04/06/22 11:38	1
Total Organic Carbon	10.9		1.0	0.43	mg/L			04/08/22 19:36	1
Ferric Iron	11.3		0.10	0.075	mg/L			04/14/22 20:23	1
Ferrous Iron	0.080	J HF	0.10	0.075	mg/L			04/09/22 16:10	1
Sulfide	ND		1.0	0.67	mg/L			04/06/22 15:50	1

4/25/2022

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-11

Lab Sample ID: 480-196417-2

Date Collected: 04/05/22 09:45 **Matrix: Water** Date Received: 04/05/22 17:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/07/22 00:05	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/07/22 00:05	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/07/22 00:05	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/07/22 00:05	
1,1-Dichloroethane	0.52	J	1.0	0.38	ug/L			04/07/22 00:05	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/07/22 00:05	
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/07/22 00:05	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/07/22 00:05	
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/07/22 00:05	
1,2-Dichlorobenzene	ND		1.0		ug/L			04/07/22 00:05	
1,2-Dichloroethane	ND		1.0		ug/L			04/07/22 00:05	
1,2-Dichloropropane	ND		1.0		ug/L			04/07/22 00:05	
1,3-Dichlorobenzene	ND		1.0		ug/L			04/07/22 00:05	
1,4-Dichlorobenzene	ND		1.0		ug/L			04/07/22 00:05	
2-Butanone (MEK)	ND		10		ug/L			04/07/22 00:05	
2-Hexanone	ND	*+	5.0		ug/L			04/07/22 00:05	
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			04/07/22 00:05	
Acetone	ND		10		ug/L			04/07/22 00:05	
Benzene	ND		1.0		ug/L			04/07/22 00:05	
Bromodichloromethane	ND		1.0		ug/L			04/07/22 00:05	
Bromoform	ND		1.0		ug/L			04/07/22 00:05	
Bromomethane	ND		1.0		ug/L			04/07/22 00:05	· · · · · · · .
Carbon disulfide	ND		1.0		ug/L			04/07/22 00:05	
Carbon tetrachloride	ND		1.0		ug/L			04/07/22 00:05	
Chlorobenzene	ND		1.0		ug/L			04/07/22 00:05	· · · · · · .
Chloroethane	ND		1.0		ug/L			04/07/22 00:05	
Chloroform	ND		1.0		ug/L			04/07/22 00:05	
Chloromethane	ND		1.0		ug/L			04/07/22 00:05	
cis-1,2-Dichloroethene	1.3		1.0		ug/L			04/07/22 00:05	
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/07/22 00:05	
Cyclohexane	ND		1.0		ug/L			04/07/22 00:05	
Dibromochloromethane	ND		1.0		ug/L			04/07/22 00:05	
Dichlorodifluoromethane	ND		1.0		ug/L			04/07/22 00:05	
Ethylbenzene	ND		1.0		ug/L			04/07/22 00:05	· · · · ·
Isopropylbenzene	ND		1.0		ug/L			04/07/22 00:05	
Methyl acetate	ND		2.5		ug/L			04/07/22 00:05	
Methyl tert-butyl ether	ND		1.0		ug/L			04/07/22 00:05	· · · · · · .
Methylcyclohexane	ND		1.0		ug/L			04/07/22 00:05	
Methylene Chloride	ND ND		1.0		ug/L ug/L			04/07/22 00:05	
	ND		1.0		ug/L ug/L			04/07/22 00:05	
Styrene					_				
Tetrachloroethene Toluene	ND ND		1.0		ug/L			04/07/22 00:05 04/07/22 00:05	
			1.0		ug/L				·
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/07/22 00:05 04/07/22 00:05	
trans-1,3-Dichloropropene	ND		1.0		ug/L				
Trichloroftuaramethana	ND		1.0		ug/L			04/07/22 00:05	
Trichlorofluoromethane	ND		1.0		ug/L			04/07/22 00:05	
Vinyl chloride Xylenes, Total	1.4 ND		1.0 2.0		ug/L ug/L			04/07/22 00:05 04/07/22 00:05	

Eurofins Buffalo

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-11

Lab Sample ID: 480-196417-2 Date Collected: 04/05/22 09:45

Matrix: Water

Date	Received:	04/05/22	17:35

Surrogate	%Recovery Qualif	fier Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107	77 - 120	04/07/22 00:05	1
4-Bromofluorobenzene (Surr)	98	73 - 120	04/07/22 00:05	1
Toluene-d8 (Surr)	101	80 - 120	04/07/22 00:05	1
Dibromofluoromethane (Surr)	92	75 - 123	04/07/22 00:05	1

Method: RSK-175 - Disso	olved Gases (GC)							
Analyte	Result Quali	fier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	160000	5000	3800	ug/L			04/08/22 08:48	1
Ethane	ND	170	33	ug/L			04/06/22 15:06	22
Ethene	ND	150	33	ug/L			04/06/22 15:06	22
Methane	2400	88	22	ug/L			04/06/22 15:06	22

Method: 200.7 Rev 4.4 - Metals	(ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.0		0.050	0.019	mg/L		04/07/22 09:28	04/07/22 17:16	1

Method: 200.7 Rev 4.4 - Metals	(ICP) - Dis	solved							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		04/11/22 14:15	04/13/22 22:20	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	6.1	J	20.0	3.5	mg/L			04/08/22 15:04	10
Alkalinity, Total	460		50.0	20.0	mg/L			04/06/22 18:11	5
Nitrate as N	ND		0.050	0.020	mg/L			04/06/22 11:45	1
Nitrite as N	ND		0.050	0.020	mg/L			04/06/22 11:45	1
Total Organic Carbon	3.4		1.0	0.43	mg/L			04/08/22 20:03	1
Ferric Iron	2.0		0.10	0.075	mg/L			04/14/22 20:23	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			04/09/22 16:10	1
Sulfide	ND		1.0	0.67	mg/L			04/06/22 15:50	1

4/25/2022

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-2

Lab Sample ID: 480-196420-1 Date Collected: 04/04/22 09:50

Matrix: Water

Date Received: 04/05/22 17:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			04/07/22 00:27	
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			04/07/22 00:27	:
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			04/07/22 00:27	:
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			04/07/22 00:27	:
1,1-Dichloroethane	ND		2.0	0.76	ug/L			04/07/22 00:27	:
1,1-Dichloroethene	ND		2.0	0.58	ug/L			04/07/22 00:27	:
1,2,4-Trichlorobenzene	ND		2.0		ug/L			04/07/22 00:27	
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/07/22 00:27	:
1,2-Dibromoethane	ND		2.0		ug/L			04/07/22 00:27	:
1,2-Dichlorobenzene	ND		2.0		ug/L			04/07/22 00:27	
1,2-Dichloroethane	ND		2.0		ug/L			04/07/22 00:27	:
1,2-Dichloropropane	ND		2.0		ug/L			04/07/22 00:27	
1,3-Dichlorobenzene	ND		2.0		ug/L			04/07/22 00:27	
1,4-Dichlorobenzene	ND		2.0		ug/L			04/07/22 00:27	
2-Butanone (MEK)	ND		20		ug/L			04/07/22 00:27	
2-Hexanone	ND	*+	10		ug/L			04/07/22 00:27	
4-Methyl-2-pentanone (MIBK)	ND	·	10		ug/L			04/07/22 00:27	
Acetone	ND		20		ug/L			04/07/22 00:27	
Benzene	ND		2.0		ug/L			04/07/22 00:27	
Bromodichloromethane	ND ND		2.0		ug/L ug/L			04/07/22 00:27	
Bromoform	ND ND		2.0		ug/L ug/L			04/07/22 00:27	
Bromomethane	ND		2.0					04/07/22 00:27	:
					ug/L				
Carbon disulfide	ND		2.0		ug/L			04/07/22 00:27	
Carbon tetrachloride	ND		2.0		ug/L			04/07/22 00:27	
Chlorobenzene	ND		2.0		ug/L			04/07/22 00:27	
Chloroethane	ND		2.0		ug/L			04/07/22 00:27	
Chloroform	ND		2.0		ug/L			04/07/22 00:27	
Chloromethane	ND		2.0		ug/L			04/07/22 00:27	
cis-1,2-Dichloroethene	ND		2.0		ug/L			04/07/22 00:27	
cis-1,3-Dichloropropene	ND		2.0		ug/L			04/07/22 00:27	
Cyclohexane	ND		2.0		ug/L			04/07/22 00:27	:
Dibromochloromethane	ND		2.0		ug/L			04/07/22 00:27	
Dichlorodifluoromethane	ND		2.0		ug/L			04/07/22 00:27	
Ethylbenzene	ND		2.0		ug/L			04/07/22 00:27	;
Isopropylbenzene	ND		2.0	1.6	ug/L			04/07/22 00:27	:
Methyl acetate	ND		5.0		ug/L			04/07/22 00:27	
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			04/07/22 00:27	:
Methylcyclohexane	ND		2.0	0.32	ug/L			04/07/22 00:27	:
Methylene Chloride	ND		2.0	0.88	ug/L			04/07/22 00:27	:
Styrene	ND		2.0	1.5	ug/L			04/07/22 00:27	:
Tetrachloroethene	ND		2.0	0.72	ug/L			04/07/22 00:27	
Toluene	ND		2.0	1.0	ug/L			04/07/22 00:27	
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			04/07/22 00:27	:
trans-1,3-Dichloropropene	ND		2.0		ug/L			04/07/22 00:27	:
Trichloroethene	ND		2.0		ug/L			04/07/22 00:27	:
Trichlorofluoromethane	ND		2.0		ug/L			04/07/22 00:27	
Vinyl chloride	ND		2.0		ug/L			04/07/22 00:27	:
Xylenes, Total	ND		4.0		ug/L			04/07/22 00:27	

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4/25/2022

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-2 Lab Sample ID: 480-196420-1

Date Collected: 04/04/22 09:50 **Matrix: Water**

Date Received: 04/05/22 17:35

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120	_		04/07/22 00:27	2
1-Bromofluorobenzene (Surr)	99		73 - 120			04/07/22 00:27	2
Toluene-d8 (Surr)	100		80 - 120			04/07/22 00:27	2
Dibromofluoromethane (Surr)	94		75 - 123			04/07/22 00:27	2

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	21.1		1.0	0.43	mg/L			04/08/22 20:31	1

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-3

Lab Sample ID: 480-196420-2 Date Collected: 04/04/22 11:35

Matrix: Water

Date Received: 04/05/22 17:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/07/22 00:50	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/07/22 00:50	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/07/22 00:50	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/07/22 00:50	
1,1-Dichloroethane	17		1.0	0.38	ug/L			04/07/22 00:50	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/07/22 00:50	
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/07/22 00:50	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/07/22 00:50	
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/07/22 00:50	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/07/22 00:50	
1,2-Dichloroethane	0.37	J	1.0	0.21	-			04/07/22 00:50	
1,2-Dichloropropane	ND		1.0	0.72	-			04/07/22 00:50	
1,3-Dichlorobenzene	ND		1.0	0.78				04/07/22 00:50	
1,4-Dichlorobenzene	ND		1.0	0.84	-			04/07/22 00:50	
2-Butanone (MEK)	ND		10		ug/L			04/07/22 00:50	
2-Hexanone	ND	*+	5.0		ug/L			04/07/22 00:50	
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	-			04/07/22 00:50	
Acetone	ND		10		ug/L			04/07/22 00:50	
Benzene	ND		1.0		ug/L			04/07/22 00:50	
Bromodichloromethane	ND		1.0		ug/L			04/07/22 00:50	
Bromoform	ND		1.0	0.26	-			04/07/22 00:50	
Bromomethane	ND		1.0	0.69				04/07/22 00:50	
Carbon disulfide	ND		1.0		ug/L			04/07/22 00:50	
Carbon tetrachloride	ND		1.0		ug/L			04/07/22 00:50	
Chlorobenzene	ND		1.0		ug/L			04/07/22 00:50	
Chloroethane	1.3		1.0	0.32	-			04/07/22 00:50	
Chloroform	ND		1.0		ug/L			04/07/22 00:50	
Chloromethane	ND		1.0	0.35				04/07/22 00:50	
cis-1,2-Dichloroethene	2.6		1.0		ug/L			04/07/22 00:50	
cis-1,3-Dichloropropene	ND		1.0	0.36	-			04/07/22 00:50	
Cyclohexane	ND		1.0		ug/L			04/07/22 00:50	
Dibromochloromethane	ND		1.0	0.32	-			04/07/22 00:50	
Dichlorodifluoromethane	ND		1.0	0.68	-			04/07/22 00:50	
Ethylbenzene	ND		1.0		ug/L			04/07/22 00:50	
Isopropylbenzene	ND		1.0	0.79				04/07/22 00:50	
Methyl acetate	ND		2.5		ug/L			04/07/22 00:50	
Methyl tert-butyl ether	ND		1.0		ug/L			04/07/22 00:50	
Methylcyclohexane	ND		1.0		ug/L			04/07/22 00:50	
Methylene Chloride	ND		1.0		ug/L ug/L			04/07/22 00:50	
Styrene	ND		1.0		ug/L ug/L			04/07/22 00:50	
Tetrachloroethene	ND				ug/L ug/L			04/07/22 00:50	
Toluene	ND ND		1.0 1.0		ug/L ug/L			04/07/22 00:50	
trans-1,2-Dichloroethene								04/07/22 00:50	
·	ND ND		1.0		ug/L ug/L			04/07/22 00:50	
trans-1,3-Dichloropropene			1.0		•				
Trichloroethene	ND		1.0		ug/L			04/07/22 00:50	
Trichlorofluoromethane	ND		1.0		ug/L			04/07/22 00:50	
Vinyl chloride Xylenes, Total	27 ND		1.0 2.0	0.90	ug/L			04/07/22 00:50 04/07/22 00:50	

Eurofins Buffalo

4/25/2022

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-3 Lab Sample ID: 480-196420-2

Date Collected: 04/04/22 11:35 Matrix: Water Date Received: 04/05/22 17:35

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120					04/07/22 00:50	1
4-Bromofluorobenzene (Surr)	99		73 - 120					04/07/22 00:50	1
Toluene-d8 (Surr)	100		80 - 120					04/07/22 00:50	1
Dibromofluoromethane (Surr)	95		75 - 123					04/07/22 00:50	1
General Chemistry									
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	4.1		1.0	0.43	mg/L			04/08/22 20:58	1

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Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-13D

Lab Sample ID: 480-196420-3 Date Collected: 04/05/22 16:05

Matrix: Water

Date Received: 04/05/22 17:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/07/22 01:13	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/07/22 01:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/07/22 01:13	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/07/22 01:13	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/07/22 01:13	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/07/22 01:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/07/22 01:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/07/22 01:13	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/07/22 01:13	1
1,2-Dichlorobenzene	ND		1.0	0.79				04/07/22 01:13	1
1,2-Dichloroethane	ND		1.0	0.21	-			04/07/22 01:13	1
1,2-Dichloropropane	ND		1.0	0.72	-			04/07/22 01:13	1
1,3-Dichlorobenzene	ND		1.0	0.78				04/07/22 01:13	1
1,4-Dichlorobenzene	ND		1.0	0.84	-			04/07/22 01:13	1
2-Butanone (MEK)	5.0	J	10		ug/L			04/07/22 01:13	1
2-Hexanone	ND		5.0		ug/L			04/07/22 01:13	,
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/07/22 01:13	
Acetone	10		10		ug/L			04/07/22 01:13	
Benzene	ND		1.0		ug/L			04/07/22 01:13	
Bromodichloromethane	ND		1.0	0.39	-			04/07/22 01:13	
Bromoform	ND		1.0	0.26	•			04/07/22 01:13	
Bromomethane	ND		1.0	0.69				04/07/22 01:13	
Carbon disulfide	ND		1.0	0.19	_			04/07/22 01:13	
Carbon tetrachloride	ND		1.0	0.27	-			04/07/22 01:13	1
Chlorobenzene	ND		1.0		ug/L			04/07/22 01:13	1
Chloroethane	12		1.0	0.32	_			04/07/22 01:13	1
Chloroform	ND		1.0	0.34	-			04/07/22 01:13	
Chloromethane	ND		1.0		ug/L			04/07/22 01:13	
cis-1,2-Dichloroethene	ND		1.0	0.81	-			04/07/22 01:13	
cis-1,3-Dichloropropene	ND		1.0	0.36	-			04/07/22 01:13	
Cyclohexane	ND		1.0		ug/L			04/07/22 01:13	
Dibromochloromethane	ND		1.0	0.32	-			04/07/22 01:13	
Dichlorodifluoromethane	ND		1.0	0.68	_			04/07/22 01:13	
Ethylbenzene	ND		1.0		ug/L			04/07/22 01:13	
Isopropylbenzene	ND		1.0	0.79	-			04/07/22 01:13	
Methyl acetate	ND		2.5		ug/L			04/07/22 01:13	,
Methyl tert-butyl ether	ND		1.0		ug/L			04/07/22 01:13	
Methylcyclohexane	ND		1.0		ug/L			04/07/22 01:13	,
Methylene Chloride	ND		1.0		ug/L			04/07/22 01:13	,
Styrene	ND		1.0		ug/L			04/07/22 01:13	
Tetrachloroethene	ND		1.0		ug/L			04/07/22 01:13	,
Toluene	ND		1.0		ug/L			04/07/22 01:13	,
trans-1,2-Dichloroethene	ND		1.0		ug/L ug/L			04/07/22 01:13	,
trans-1,3-Dichloroethene trans-1,3-Dichloropropene	ND ND		1.0		ug/L ug/L			04/07/22 01:13	
trans-1,3-Dichloropropene Trichloroethene	ND ND				ug/L ug/L			04/07/22 01:13	
Trichlorofluoromethane			1.0						
	ND		1.0		ug/L			04/07/22 01:13	,
Vinyl chloride Xylenes, Total	1.4 ND		1.0 2.0		ug/L ug/L			04/07/22 01:13 04/07/22 01:13	

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Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-13D Lab Sample ID: 480-196420-3

Date Collected: 04/05/22 16:05 Matrix: Water

Date Received: 04/05/22 17:35

Total Organic Carbon

Surrogate	%Recovery Q	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		-		04/07/22 01:13	1
4-Bromofluorobenzene (Surr)	98		73 - 120				04/07/22 01:13	1
Toluene-d8 (Surr)	100		80 - 120				04/07/22 01:13	1
Dibromofluoromethane (Surr)	92		75 - 123				04/07/22 01:13	1
General Chemistry								
Analyte	Result Q	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

1.0

5.0

0.43 mg/L

Analyzed Dil Fac 1

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Client: AECOM Job ID: 480-196417-1

RL

1.0

MDL Unit

ug/L

0.82

D

Prepared

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: Duplicate

Date Received: 04/05/22 17:35

Analyte

1,1,1-Trichloroethane

Isopropylbenzene

Methyl tert-butyl ether

Methylcyclohexane

Methylene Chloride

Tetrachloroethene

Trichloroethene

Vinyl chloride

Xylenes, Total

trans-1,2-Dichloroethene

Trichlorofluoromethane

trans-1,3-Dichloropropene

Methyl acetate

Styrene

Toluene

Date Collected: 04/05/22 00:00

Result Qualifier

ND

1.2

ND

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

Lab Sample ID: 480-196420-4

Analyzed

04/07/22 01:36

Matrix: Water

Dil Fac

1, 1, 1-11101101001110110	IND	1.0	0.02 ug/L	07/01/22 01.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.21 ug/L	04/07/22 01:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31 ug/L	04/07/22 01:36	1
1,1,2-Trichloroethane	ND	1.0	0.23 ug/L	04/07/22 01:36	1
1,1-Dichloroethane	0.53 J	1.0	0.38 ug/L	04/07/22 01:36	1
1,1-Dichloroethene	ND	1.0	0.29 ug/L	04/07/22 01:36	1
1,2,4-Trichlorobenzene	ND	1.0	0.41 ug/L	04/07/22 01:36	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39 ug/L	04/07/22 01:36	1
1,2-Dibromoethane	ND	1.0	0.73 ug/L	04/07/22 01:36	1
1,2-Dichlorobenzene	ND	1.0	0.79 ug/L	04/07/22 01:36	1
1,2-Dichloroethane	ND	1.0	0.21 ug/L	04/07/22 01:36	1
1,2-Dichloropropane	ND	1.0	0.72 ug/L	04/07/22 01:36	1
1,3-Dichlorobenzene	ND	1.0	0.78 ug/L	04/07/22 01:36	1
1,4-Dichlorobenzene	ND	1.0	0.84 ug/L	04/07/22 01:36	1
2-Butanone (MEK)	ND	10	1.3 ug/L	04/07/22 01:36	1
2-Hexanone	ND *+	5.0	1.2 ug/L	04/07/22 01:36	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1 ug/L	04/07/22 01:36	1
Acetone	ND	10	3.0 ug/L	04/07/22 01:36	1
Benzene	ND	1.0	0.41 ug/L	04/07/22 01:36	1
Bromodichloromethane	ND	1.0	0.39 ug/L	04/07/22 01:36	1
Bromoform	ND	1.0	0.26 ug/L	04/07/22 01:36	1
Bromomethane	ND	1.0	0.69 ug/L	04/07/22 01:36	1
Carbon disulfide	ND	1.0	0.19 ug/L	04/07/22 01:36	1
Carbon tetrachloride	ND	1.0	0.27 ug/L	04/07/22 01:36	1
Chlorobenzene	ND	1.0	0.75 ug/L	04/07/22 01:36	1
Chloroethane	ND	1.0	0.32 ug/L	04/07/22 01:36	1
Chloroform	ND	1.0	0.34 ug/L	04/07/22 01:36	1
Chloromethane	ND	1.0	0.35 ug/L	04/07/22 01:36	1
cis-1,2-Dichloroethene	1.4	1.0	0.81 ug/L	04/07/22 01:36	1
cis-1,3-Dichloropropene	ND	1.0	0.36 ug/L	04/07/22 01:36	1
Cyclohexane	ND	1.0	0.18 ug/L	04/07/22 01:36	1
Dibromochloromethane	ND	1.0	0.32 ug/L	04/07/22 01:36	1
Dichlorodifluoromethane	ND	1.0	0.68 ug/L	04/07/22 01:36	1
Ethylbenzene	ND	1.0	0.74 ug/L	04/07/22 01:36	1
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0.16 ug/L

0.16 ug/L

0.44 ug/L

0.73 ug/L

0.36 ug/L

0.51 ug/L

0.90 ug/L

0.37 ug/L

0.46 ug/L

0.88 ug/L

0.90 ug/L

0.66 ug/L

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Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: Duplicate Lab Sample ID: 480-196420-4 Date Collected: 04/05/22 00:00

Matrix: Water

Date Received: 04/05/22 17:35

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108	77 - 120		04/07/22 01:36	1
4-Bromofluorobenzene (Surr)	98	73 - 120		04/07/22 01:36	1
Toluene-d8 (Surr)	98	80 - 120		04/07/22 01:36	1
Dibromofluoromethane (Surr)	93	75 - 123		04/07/22 01:36	1

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-9

Lab Sample ID: 480-196420-5

Matrix: Water

Date Collected: 04/04/22 13:15 Date Received: 04/05/22 17:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/07/22 01:59	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/07/22 01:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/07/22 01:59	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/07/22 01:59	
1,1-Dichloroethane	20		1.0	0.38	ug/L			04/07/22 01:59	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/07/22 01:59	
1,2,4-Trichlorobenzene	ND		1.0	0.41				04/07/22 01:59	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/07/22 01:59	
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/07/22 01:59	
1,2-Dichlorobenzene	ND		1.0		ug/L			04/07/22 01:59	
1,2-Dichloroethane	0.30	J	1.0	0.21				04/07/22 01:59	
1,2-Dichloropropane	ND		1.0		ug/L			04/07/22 01:59	
1,3-Dichlorobenzene	ND		1.0		ug/L			04/07/22 01:59	
1,4-Dichlorobenzene	ND		1.0	0.84	-			04/07/22 01:59	
2-Butanone (MEK)	ND		10		ug/L			04/07/22 01:59	
2-Hexanone	ND	*+	5.0		ug/L			04/07/22 01:59	
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			04/07/22 01:59	
Acetone	ND		10		ug/L			04/07/22 01:59	
Benzene	ND		1.0		ug/L			04/07/22 01:59	
Bromodichloromethane	ND		1.0	0.39	-			04/07/22 01:59	
Bromoform	ND		1.0	0.26	-			04/07/22 01:59	
Bromomethane	ND		1.0		ug/L			04/07/22 01:59	
Carbon disulfide	ND		1.0	0.19	-			04/07/22 01:59	
Carbon tetrachloride	ND		1.0	0.27	-			04/07/22 01:59	
Chlorobenzene	ND		1.0		ug/L			04/07/22 01:59	
Chloroethane	ND		1.0	0.32	-			04/07/22 01:59	
Chloroform	ND		1.0		ug/L			04/07/22 01:59	
Chloromethane	ND		1.0		ug/L			04/07/22 01:59	
cis-1,2-Dichloroethene	14		1.0	0.81	•			04/07/22 01:59	
cis-1,3-Dichloropropene	ND		1.0	0.36	-			04/07/22 01:59	
Cyclohexane	ND		1.0	0.18				04/07/22 01:59	
Dibromochloromethane	ND		1.0	0.32	-			04/07/22 01:59	
Dichlorodifluoromethane	ND		1.0		ug/L			04/07/22 01:59	
Ethylbenzene	ND		1.0		ug/L			04/07/22 01:59	
Isopropylbenzene	ND		1.0	0.79	-			04/07/22 01:59	
Methyl acetate	ND		2.5		ug/L			04/07/22 01:59	
Methyl tert-butyl ether	ND		1.0		ug/L			04/07/22 01:59	
Methylcyclohexane	ND		1.0		ug/L			04/07/22 01:59	
Methylene Chloride	ND ND		1.0		ug/L ug/L			04/07/22 01:59	
Styrene	ND		1.0		ug/L			04/07/22 01:59 04/07/22 01:59	
Tetrachloroethene Toluene	ND ND		1.0		ug/L			04/07/22 01:59	
			1.0		ug/L				
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/07/22 01:59	
trans-1,3-Dichloropropene	ND		1.0		ug/L			04/07/22 01:59	
Trichloroethene	ND		1.0		ug/L			04/07/22 01:59	
Trichlorofluoromethane	ND		1.0		ug/L			04/07/22 01:59	
Vinyl chloride Xylenes, Total	3.2 ND		1.0 2.0		ug/L ug/L			04/07/22 01:59 04/07/22 01:59	

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Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-9 Lab Sample ID: 480-196420-5

Date Collected: 04/04/22 13:15 **Matrix: Water**

Date Received: 04/05/22 17:35

Surrogate	%Recovery Q	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		04/07/22 01:59	1
1-Bromofluorobenzene (Surr)	100		73 - 120		04/07/22 01:59	1
Toluene-d8 (Surr)	99		80 - 120		04/07/22 01:59	1
Dibromofluoromethane (Surr)	90		75 - 123		04/07/22 01:59	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	5.1		1.0	0.43	mg/L			04/09/22 00:40	1

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-14S

Lab Sample ID: 480-196420-6

Matrix: Water

Date Collected: 04/04/22 15:10 Date Received: 04/05/22 17:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/07/22 02:22	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/07/22 02:22	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/07/22 02:22	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/07/22 02:22	
1,1-Dichloroethane	14		1.0	0.38	ug/L			04/07/22 02:22	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/07/22 02:22	
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/07/22 02:22	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/07/22 02:22	
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/07/22 02:22	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/07/22 02:22	
1,2-Dichloroethane	0.70	J	1.0	0.21	ug/L			04/07/22 02:22	
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/07/22 02:22	
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/07/22 02:22	
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/07/22 02:22	
2-Butanone (MEK)	ND		10	1.3	ug/L			04/07/22 02:22	
2-Hexanone	ND	*+	5.0	1.2	ug/L			04/07/22 02:22	
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/07/22 02:22	
Acetone	ND		10	3.0	ug/L			04/07/22 02:22	
Benzene	0.51	J	1.0	0.41	ug/L			04/07/22 02:22	
Bromodichloromethane	ND		1.0	0.39	ug/L			04/07/22 02:22	
Bromoform	ND		1.0	0.26	ug/L			04/07/22 02:22	
Bromomethane	ND		1.0	0.69	ug/L			04/07/22 02:22	
Carbon disulfide	ND		1.0	0.19	ug/L			04/07/22 02:22	
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/07/22 02:22	
Chlorobenzene	ND		1.0	0.75	ug/L			04/07/22 02:22	
Chloroethane	1.0		1.0	0.32	ug/L			04/07/22 02:22	
Chloroform	ND		1.0	0.34	ug/L			04/07/22 02:22	
Chloromethane	ND		1.0	0.35	ug/L			04/07/22 02:22	
cis-1,2-Dichloroethene	18		1.0	0.81	ug/L			04/07/22 02:22	
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/07/22 02:22	
Cyclohexane	ND		1.0	0.18	ug/L			04/07/22 02:22	
Dibromochloromethane	ND		1.0	0.32	ug/L			04/07/22 02:22	
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/07/22 02:22	
Ethylbenzene	ND		1.0	0.74	ug/L			04/07/22 02:22	
Isopropylbenzene	ND		1.0	0.79	ug/L			04/07/22 02:22	
Methyl acetate	ND		2.5	1.3	ug/L			04/07/22 02:22	
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/07/22 02:22	
Methylcyclohexane	ND		1.0	0.16	ug/L			04/07/22 02:22	
Methylene Chloride	ND		1.0	0.44	ug/L			04/07/22 02:22	
Styrene	ND		1.0	0.73	ug/L			04/07/22 02:22	
Tetrachloroethene	ND		1.0	0.36	ug/L			04/07/22 02:22	
Toluene	ND		1.0	0.51	ug/L			04/07/22 02:22	
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/07/22 02:22	
trans-1,3-Dichloropropene	ND		1.0		ug/L			04/07/22 02:22	
Trichloroethene	ND		1.0	0.46	ug/L			04/07/22 02:22	
Trichlorofluoromethane	ND		1.0		ug/L			04/07/22 02:22	
Vinyl chloride	7.2		1.0		ug/L			04/07/22 02:22	
Xylenes, Total	ND		2.0		ug/L			04/07/22 02:22	

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Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-14S Lab Sample ID: 480-196420-6

Date Collected: 04/04/22 15:10 Matrix: Water Date Received: 04/05/22 17:35

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120					04/07/22 02:22	1
4-Bromofluorobenzene (Surr)	102		73 - 120					04/07/22 02:22	1
Toluene-d8 (Surr)	100		80 - 120					04/07/22 02:22	1
Dibromofluoromethane (Surr)	90		75 - 123					04/07/22 02:22	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	5.1		1.0	0.43	mg/L			04/09/22 01:08	1

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-14D

Date Collected: 04/04/22 16:20 Date Received: 04/05/22 17:35 Lab Sample ID: 480-196420-7

Matrix: Water

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			04/07/22 02:45	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			04/07/22 02:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			04/07/22 02:45	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			04/07/22 02:45	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			04/07/22 02:45	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			04/07/22 02:45	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			04/07/22 02:45	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			04/07/22 02:45	1
1,2-Dibromoethane	ND	1.0	0.73	ug/L			04/07/22 02:45	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			04/07/22 02:45	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			04/07/22 02:45	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			04/07/22 02:45	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			04/07/22 02:45	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			04/07/22 02:45	1
2-Butanone (MEK)	ND	10	1.3	ug/L			04/07/22 02:45	1
2-Hexanone	ND *+	5.0	1.2	ug/L			04/07/22 02:45	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			04/07/22 02:45	1

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1,1,1-Trichloroethane	ND	1.0	0.82 ug/L	_	04/07/22 02:45	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21 ug/L		04/07/22 02:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31 ug/L		04/07/22 02:45	1
1,1,2-Trichloroethane	ND	1.0	0.23 ug/L		04/07/22 02:45	1
1,1-Dichloroethane	ND	1.0	0.38 ug/L		04/07/22 02:45	1
1,1-Dichloroethene	ND	1.0	0.29 ug/L		04/07/22 02:45	1
1,2,4-Trichlorobenzene	ND	1.0	0.41 ug/L		04/07/22 02:45	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39 ug/L		04/07/22 02:45	1
1,2-Dibromoethane	ND	1.0	0.73 ug/L		04/07/22 02:45	1
1,2-Dichlorobenzene	ND	1.0	0.79 ug/L		04/07/22 02:45	1
1,2-Dichloroethane	ND	1.0	0.21 ug/L		04/07/22 02:45	1
1,2-Dichloropropane	ND	1.0	0.72 ug/L		04/07/22 02:45	1
1,3-Dichlorobenzene	ND	1.0	0.78 ug/L		04/07/22 02:45	1
1,4-Dichlorobenzene	ND	1.0	0.84 ug/L		04/07/22 02:45	1
2-Butanone (MEK)	ND	10	1.3 ug/L		04/07/22 02:45	1
2-Hexanone	ND *+	5.0	1.2 ug/L		04/07/22 02:45	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1 ug/L		04/07/22 02:45	1
Acetone	ND	10	3.0 ug/L		04/07/22 02:45	1
Benzene	ND	1.0	0.41 ug/L		04/07/22 02:45	1
Bromodichloromethane	ND	1.0	0.39 ug/L		04/07/22 02:45	1
Bromoform	ND	1.0	0.26 ug/L		04/07/22 02:45	1
Bromomethane	ND	1.0	0.69 ug/L		04/07/22 02:45	1
Carbon disulfide	ND	1.0	0.19 ug/L		04/07/22 02:45	1
Carbon tetrachloride	ND	1.0	0.27 ug/L		04/07/22 02:45	1
Chlorobenzene	ND	1.0	0.75 ug/L		04/07/22 02:45	1
Chloroethane	ND	1.0	0.32 ug/L		04/07/22 02:45	1
Chloroform	ND	1.0	0.34 ug/L		04/07/22 02:45	1
Chloromethane	ND	1.0	0.35 ug/L		04/07/22 02:45	1
cis-1,2-Dichloroethene	ND	1.0	0.81 ug/L		04/07/22 02:45	1
cis-1,3-Dichloropropene	ND	1.0	0.36 ug/L		04/07/22 02:45	1
Cyclohexane	ND	1.0	0.18 ug/L		04/07/22 02:45	1
Dibromochloromethane	ND	1.0	0.32 ug/L		04/07/22 02:45	1
Dichlorodifluoromethane	ND	1.0	0.68 ug/L		04/07/22 02:45	1
Ethylbenzene	ND	1.0	0.74 ug/L		04/07/22 02:45	1
Isopropylbenzene	ND	1.0	0.79 ug/L		04/07/22 02:45	1
Methyl acetate	ND	2.5	1.3 ug/L		04/07/22 02:45	1
Methyl tert-butyl ether	ND	1.0	0.16 ug/L		04/07/22 02:45	1
Methylcyclohexane	ND	1.0	0.16 ug/L		04/07/22 02:45	1
Methylene Chloride	ND	1.0	0.44 ug/L		04/07/22 02:45	1
Styrene	ND	1.0	0.73 ug/L		04/07/22 02:45	1
Tetrachloroethene	ND	1.0	0.36 ug/L		04/07/22 02:45	1
Toluene	ND	1.0	0.51 ug/L		04/07/22 02:45	1
trans-1,2-Dichloroethene	ND	1.0	0.90 ug/L		04/07/22 02:45	1
trans-1,3-Dichloropropene	ND	1.0	0.37 ug/L		04/07/22 02:45	1
Trichloroethene	ND	1.0	0.46 ug/L		04/07/22 02:45	1
Trichlorofluoromethane	ND	1.0	0.88 ug/L		04/07/22 02:45	1
Vinyl chloride	1.7	1.0	0.90 ug/L		04/07/22 02:45	1
Xylenes, Total	ND	2.0	0.66 ug/L		04/07/22 02:45	1
7.510100, 10tal	110	2.0	0.00 ag/L		J-101122 02.70	1

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Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Total Organic Carbon

Lab Sample ID: 480-196420-7 Client Sample ID: MW-14D

Date Collected: 04/04/22 16:20 **Matrix: Water** Date Received: 04/05/22 17:35

5	Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1	1,2-Dichloroethane-d4 (Surr)	109		77 - 120				04/07/22 02:45	1
4	1-Bromofluorobenzene (Surr)	99		73 - 120				04/07/22 02:45	1
7	Toluene-d8 (Surr)	97		80 - 120				04/07/22 02:45	1
L	Dibromofluoromethane (Surr)	91		75 - 123				04/07/22 02:45	1
	General Chemistry								
/	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

1.0

0.43 mg/L

6.1

04/09/22 01:35

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-15S

Lab Sample ID: 480-196420-8

Matrix: Water

Date Collected: 04/05/22 11:40 Date Received: 04/05/22 17:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		20	16	ug/L			04/07/22 03:08	2
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			04/07/22 03:08	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			04/07/22 03:08	2
1,1,2-Trichloroethane	ND		20	4.6	ug/L			04/07/22 03:08	2
1,1-Dichloroethane	190		20	7.6	ug/L			04/07/22 03:08	2
1,1-Dichloroethene	ND		20	5.8	ug/L			04/07/22 03:08	2
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			04/07/22 03:08	2
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			04/07/22 03:08	2
1,2-Dibromoethane	ND		20	15	ug/L			04/07/22 03:08	2
1,2-Dichlorobenzene	ND		20	16	ug/L			04/07/22 03:08	2
1,2-Dichloroethane	ND		20	4.2	ug/L			04/07/22 03:08	2
1,2-Dichloropropane	ND		20	14	ug/L			04/07/22 03:08	2
1,3-Dichlorobenzene	ND		20	16	ug/L			04/07/22 03:08	2
1,4-Dichlorobenzene	ND		20	17	ug/L			04/07/22 03:08	2
2-Butanone (MEK)	ND		200		ug/L			04/07/22 03:08	2
2-Hexanone	ND	*+	100	25	ug/L			04/07/22 03:08	2
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			04/07/22 03:08	2
Acetone	100	J	200		ug/L			04/07/22 03:08	2
Benzene	ND		20		ug/L			04/07/22 03:08	2
Bromodichloromethane	ND		20		ug/L			04/07/22 03:08	2
Bromoform	ND		20		ug/L			04/07/22 03:08	2
Bromomethane	ND		20		ug/L			04/07/22 03:08	2
Carbon disulfide	ND		20		ug/L			04/07/22 03:08	2
Carbon tetrachloride	ND		20		ug/L			04/07/22 03:08	2
Chlorobenzene	ND		20		ug/L			04/07/22 03:08	2
Chloroethane	95		20		ug/L			04/07/22 03:08	2
Chloroform	ND		20		ug/L			04/07/22 03:08	2
Chloromethane	ND		20		ug/L			04/07/22 03:08	2
cis-1,2-Dichloroethene	300		20		ug/L			04/07/22 03:08	2
cis-1,3-Dichloropropene	ND		20		ug/L			04/07/22 03:08	2
Cyclohexane	ND		20	3.6	ug/L			04/07/22 03:08	2
Dibromochloromethane	ND		20	6.4	ug/L			04/07/22 03:08	2
Dichlorodifluoromethane	ND		20	14	ug/L			04/07/22 03:08	2
Ethylbenzene	ND		20	15	ug/L			04/07/22 03:08	2
Isopropylbenzene	ND		20		ug/L			04/07/22 03:08	2
Methyl acetate	ND		50		ug/L			04/07/22 03:08	2
Methyl tert-butyl ether	ND		20		ug/L			04/07/22 03:08	2
Methylcyclohexane	ND		20		ug/L			04/07/22 03:08	2
Methylene Chloride	ND		20		ug/L			04/07/22 03:08	2
Styrene	ND		20		ug/L			04/07/22 03:08	2
Tetrachloroethene	ND		20		ug/L			04/07/22 03:08	2
Toluene	120		20	10	ug/L			04/07/22 03:08	2
trans-1,2-Dichloroethene	ND		20		ug/L			04/07/22 03:08	2
trans-1,3-Dichloropropene	ND		20		ug/L			04/07/22 03:08	2
Trichloroethene	47		20		ug/L			04/07/22 03:08	2
Trichlorofluoromethane	ND		20		ug/L			04/07/22 03:08	2
Vinyl chloride	60		20		ug/L			04/07/22 03:08	2
Xylenes, Total	24		40		ug/L			04/07/22 03:08	2

Eurofins Buffalo

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-15S Lab Sample ID: 480-196420-8

Date Collected: 04/05/22 11:40

Matrix: Water

Date Received: 04/05/22 17:35

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120			•		04/07/22 03:08	20
4-Bromofluorobenzene (Surr)	101		73 - 120					04/07/22 03:08	20
Toluene-d8 (Surr)	96		80 - 120					04/07/22 03:08	20
Dibromofluoromethane (Surr)	92		75 - 123					04/07/22 03:08	20
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	238		5.0	2.2	mg/L			04/12/22 23:48	5

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-15D

Lab Sample ID: 480-196420-9 Date Collected: 04/05/22 12:45

Matrix: Water

Date Received: 04/05/22 17:35

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	2.0	1.6	ug/L			04/07/22 03:30	
1,1,2,2-Tetrachloroethane	ND	2.0	0.42	ug/L			04/07/22 03:30	:
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0	0.62	ug/L			04/07/22 03:30	:
1,1,2-Trichloroethane	ND	2.0	0.46	ug/L			04/07/22 03:30	
1,1-Dichloroethane	ND	2.0	0.76	ug/L			04/07/22 03:30	:
1,1-Dichloroethene	ND	2.0	0.58	ug/L			04/07/22 03:30	:
1,2,4-Trichlorobenzene	ND	2.0	0.82	ug/L			04/07/22 03:30	
1,2-Dibromo-3-Chloropropane	ND	2.0	0.78	ug/L			04/07/22 03:30	:
1,2-Dibromoethane	ND	2.0	1.5	ug/L			04/07/22 03:30	:
1,2-Dichlorobenzene	ND	2.0		ug/L			04/07/22 03:30	
1,2-Dichloroethane	ND	2.0		ug/L			04/07/22 03:30	:
1,2-Dichloropropane	ND	2.0		ug/L			04/07/22 03:30	
1,3-Dichlorobenzene	ND	2.0		ug/L			04/07/22 03:30	
1,4-Dichlorobenzene	ND	2.0		ug/L			04/07/22 03:30	
2-Butanone (MEK)	ND	20		ug/L			04/07/22 03:30	
2-Hexanone	ND *+	10		ug/L			04/07/22 03:30	
4-Methyl-2-pentanone (MIBK)	ND	10		ug/L			04/07/22 03:30	
Acetone	ND	20		ug/L			04/07/22 03:30	
Benzene	ND	2.0		ug/L			04/07/22 03:30	
Bromodichloromethane	ND	2.0		ug/L			04/07/22 03:30	
Bromoform	ND	2.0		ug/L			04/07/22 03:30	
3romomethane	ND	2.0		ug/L			04/07/22 03:30	
Carbon disulfide	ND	2.0		ug/L			04/07/22 03:30	
Carbon tetrachloride	ND	2.0		ug/L			04/07/22 03:30	
Chlorobenzene	ND	2.0		ug/L			04/07/22 03:30	
Chloroethane	130	2.0		ug/L			04/07/22 03:30	
Chloroform	ND	2.0		ug/L			04/07/22 03:30	
Chloromethane	ND	2.0		ug/L			04/07/22 03:30	
cis-1,2-Dichloroethene	ND	2.0		ug/L			04/07/22 03:30	
cis-1,3-Dichloropropene	ND	2.0		ug/L			04/07/22 03:30	
Cyclohexane	ND	2.0		ug/L			04/07/22 03:30	
Dibromochloromethane	ND	2.0		ug/L			04/07/22 03:30	
Dichlorodifluoromethane	ND	2.0		ug/L			04/07/22 03:30	
Ethylbenzene	ND	2.0		ug/L ug/L			04/07/22 03:30	
lsopropylbenzene	ND	2.0		ug/L ug/L			04/07/22 03:30	
	ND	5.0		_				
Methyl acetate				ug/L ug/L			04/07/22 03:30	
Methyl tert-butyl ether	ND	2.0					04/07/22 03:30 04/07/22 03:30	:
Methylcyclohexane	ND	2.0		ug/L				;
Methylene Chloride	ND	2.0		ug/L			04/07/22 03:30	
Styrene	ND	2.0		ug/L			04/07/22 03:30	:
Tetrachloroethene	ND	2.0		ug/L			04/07/22 03:30	
Toluene	ND	2.0		ug/L			04/07/22 03:30	
trans-1,2-Dichloroethene	ND	2.0		ug/L			04/07/22 03:30	:
trans-1,3-Dichloropropene	ND	2.0		ug/L			04/07/22 03:30	
Trichloroethene	ND	2.0		ug/L			04/07/22 03:30	
Trichlorofluoromethane	ND	2.0		ug/L			04/07/22 03:30	
Vinyl chloride Xylenes, Total	ND ND	2.0 4.0		ug/L ug/L			04/07/22 03:30 04/07/22 03:30	

Eurofins Buffalo

4/25/2022

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-15D Lab Sample ID: 480-196420-9

Date Collected: 04/05/22 12:45

Matrix: Water

Date Received: 04/05/22 17:35

Surrogate	%Recovery Qualifie	er Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108	77 - 120			04/07/22 03:30	2
4-Bromofluorobenzene (Surr)	96	73 - 120			04/07/22 03:30	2
Toluene-d8 (Surr)	100	80 - 120			04/07/22 03:30	2
Dibromofluoromethane (Surr)	94	75 - 123			04/07/22 03:30	2
General Chemistry						
Analyte	Result Qualifie	er RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Total Organic Carbon	4.0	1.0	0.43 mg/L		04/09/22 02:32	1

9

10

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: Trip Blank

Lab Sample ID: 480-196420-10 Date Collected: 04/04/22 00:00

Matrix: Water Date Received: 04/05/22 17:35

Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil F
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			04/07/22 03:53	
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			04/07/22 03:53	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			04/07/22 03:53	
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			04/07/22 03:53	
1,1-Dichloroethane	ND	1.0	0.38	ug/L			04/07/22 03:53	
1,1-Dichloroethene	ND	1.0	0.29	ug/L			04/07/22 03:53	
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			04/07/22 03:53	
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			04/07/22 03:53	
1,2-Dibromoethane	ND	1.0	0.73	ug/L			04/07/22 03:53	
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			04/07/22 03:53	
1,2-Dichloroethane	ND	1.0	0.21	ug/L			04/07/22 03:53	
1,2-Dichloropropane	ND	1.0		ug/L			04/07/22 03:53	
1,3-Dichlorobenzene	ND	1.0		ug/L			04/07/22 03:53	
1,4-Dichlorobenzene	ND	1.0		ug/L			04/07/22 03:53	
2-Butanone (MEK)	ND	10		ug/L			04/07/22 03:53	
2-Hexanone	ND *+	5.0		ug/L			04/07/22 03:53	
4-Methyl-2-pentanone (MIBK)	ND	5.0		ug/L			04/07/22 03:53	
Acetone	ND	10		ug/L			04/07/22 03:53	
Benzene	ND	1.0		ug/L			04/07/22 03:53	
Bromodichloromethane	ND	1.0		ug/L			04/07/22 03:53	
Bromoform	ND	1.0		ug/L			04/07/22 03:53	
Bromomethane	ND	1.0		ug/L			04/07/22 03:53	
Carbon disulfide	ND ND	1.0		ug/L ug/L			04/07/22 03:53	
Carbon distillide Carbon tetrachloride	ND ND	1.0		ug/L ug/L			04/07/22 03:53	
Chlorobenzene	ND ND			ug/L ug/L			04/07/22 03:53	
	ND ND	1.0		-				
Chloroethane		1.0		ug/L			04/07/22 03:53	
Chloroform	ND	1.0		ug/L			04/07/22 03:53	
Chloromethane	ND	1.0		ug/L			04/07/22 03:53	
cis-1,2-Dichloroethene	ND	1.0		ug/L			04/07/22 03:53	
cis-1,3-Dichloropropene	ND	1.0		ug/L			04/07/22 03:53	
Cyclohexane	ND	1.0		ug/L			04/07/22 03:53	
Dibromochloromethane	ND	1.0		ug/L			04/07/22 03:53	
Dichlorodifluoromethane	ND	1.0		ug/L			04/07/22 03:53	
Ethylbenzene	ND	1.0		ug/L			04/07/22 03:53	
sopropylbenzene	ND	1.0		ug/L			04/07/22 03:53	
Methyl acetate	ND	2.5		ug/L			04/07/22 03:53	
Methyl tert-butyl ether	ND	1.0		ug/L			04/07/22 03:53	
Methylcyclohexane	ND	1.0	0.16	ug/L			04/07/22 03:53	
Methylene Chloride	ND	1.0		ug/L			04/07/22 03:53	
Styrene	ND	1.0	0.73	ug/L			04/07/22 03:53	
Tetrachloroethene	ND	1.0	0.36	ug/L			04/07/22 03:53	
l'oluene	ND	1.0	0.51	ug/L			04/07/22 03:53	
rans-1,2-Dichloroethene	ND	1.0	0.90	ug/L			04/07/22 03:53	
rans-1,3-Dichloropropene	ND	1.0	0.37	ug/L			04/07/22 03:53	
Trichloroethene	ND	1.0	0.46	ug/L			04/07/22 03:53	
Trichlorofluoromethane	ND	1.0		ug/L			04/07/22 03:53	
Vinyl chloride	ND	1.0		ug/L			04/07/22 03:53	
Xylenes, Total	ND	2.0		ug/L			04/07/22 03:53	

Eurofins Buffalo

4/25/2022

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: Trip Blank Lab Sample ID: 480-196420-10

Date Collected: 04/04/22 00:00 **Matrix: Water** Date Received: 04/05/22 17:35

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120	04/07/22 03:53	1
4-Bromofluorobenzene (Surr)	98		73 - 120	04/07/22 03:53	1
Toluene-d8 (Surr)	99		80 - 120	04/07/22 03:53	1
Dibromofluoromethane (Surr)	96		75 - 123	04/07/22 03:53	1

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-1

Lab Sample ID: 480-196479-1 Date Collected: 04/06/22 06:30

Matrix: Water

Date Received: 04/06/22 16:15

Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	8.0		ug/L			04/08/22 02:38	
1,1,2,2-Tetrachloroethane	ND	8.0	1.7	ug/L			04/08/22 02:38	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8.0	2.5	ug/L			04/08/22 02:38	
1,1,2-Trichloroethane	ND	8.0	1.8	ug/L			04/08/22 02:38	
1,1-Dichloroethane	40	8.0	3.0	ug/L			04/08/22 02:38	
1,1-Dichloroethene	ND	8.0	2.3	ug/L			04/08/22 02:38	
1,2,4-Trichlorobenzene	ND	8.0	3.3	ug/L			04/08/22 02:38	
1,2-Dibromo-3-Chloropropane	ND	8.0	3.1	ug/L			04/08/22 02:38	
1,2-Dibromoethane	ND	8.0	5.8	ug/L			04/08/22 02:38	
1,2-Dichlorobenzene	ND	8.0	6.3	ug/L			04/08/22 02:38	
1,2-Dichloroethane	ND	8.0		ug/L			04/08/22 02:38	
1,2-Dichloropropane	ND	8.0		ug/L			04/08/22 02:38	
1,3-Dichlorobenzene	ND	8.0		ug/L			04/08/22 02:38	
1,4-Dichlorobenzene	ND	8.0		ug/L			04/08/22 02:38	
2-Butanone (MEK)	69 J	80		ug/L			04/08/22 02:38	
2-Hexanone	ND *+	40		ug/L			04/08/22 02:38	
I-Methyl-2-pentanone (MIBK)	ND *+	40		ug/L			04/08/22 02:38	
Acetone	190	80		ug/L			04/08/22 02:38	
Benzene	ND	8.0		ug/L			04/08/22 02:38	
Bromodichloromethane	ND ND	8.0		ug/L ug/L			04/08/22 02:38	
				-				
Bromoform	ND	8.0		ug/L			04/08/22 02:38	
Bromomethane	ND	8.0		ug/L			04/08/22 02:38	
Carbon disulfide	ND	8.0		ug/L			04/08/22 02:38	
Carbon tetrachloride	ND	8.0		ug/L			04/08/22 02:38	
Chlorobenzene	ND	8.0		ug/L			04/08/22 02:38	
Chloroethane	7.9 J	8.0		ug/L			04/08/22 02:38	
Chloroform	ND	8.0		ug/L			04/08/22 02:38	
Chloromethane	ND	8.0		ug/L			04/08/22 02:38	
cis-1,2-Dichloroethene	52	8.0		ug/L			04/08/22 02:38	
cis-1,3-Dichloropropene	ND	8.0		ug/L			04/08/22 02:38	
Cyclohexane	ND	8.0		ug/L			04/08/22 02:38	
Dibromochloromethane	ND	8.0	2.6	ug/L			04/08/22 02:38	
Dichlorodifluoromethane	ND	8.0	5.4	ug/L			04/08/22 02:38	
Ethylbenzene	ND	8.0	5.9	ug/L			04/08/22 02:38	
sopropylbenzene	ND	8.0	6.3	ug/L			04/08/22 02:38	
Methyl acetate	ND	20	10	ug/L			04/08/22 02:38	
Methyl tert-butyl ether	ND	8.0	1.3	ug/L			04/08/22 02:38	
Methylcyclohexane	ND	8.0	1.3	ug/L			04/08/22 02:38	
Methylene Chloride	ND	8.0		ug/L			04/08/22 02:38	
Styrene	ND	8.0		ug/L			04/08/22 02:38	
etrachloroethene	ND	8.0		ug/L			04/08/22 02:38	
Toluene	8.7	8.0		ug/L			04/08/22 02:38	
ans-1,2-Dichloroethene	ND	8.0		ug/L			04/08/22 02:38	
rans-1,3-Dichloropropene	ND	8.0		ug/L			04/08/22 02:38	
richloroethene	7.2 J	8.0		ug/L			04/08/22 02:38	
richlorofluoromethane	ND	8.0		ug/L			04/08/22 02:38	
		8.0					04/08/22 02:38	
/inyl chloride Kylenes, Total	9.2 ND	6.0 16		ug/L ug/L			04/08/22 02:38	

Eurofins Buffalo

4/25/2022

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-1 Lab Sample ID: 480-196479-1

Date Collected: 04/06/22 06:30 Lab Sample 15: 400-130473-1

Date Received: 04/06/22 16:15

Surrogate	%Recovery Qua	alifier Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103	77 - 120	04/08/22 02:38	8
4-Bromofluorobenzene (Surr)	103	73 - 120	04/08/22 02:38	8
Toluene-d8 (Surr)	100	80 - 120	04/08/22 02:38	8
Dibromofluoromethane (Surr)	90	75 ₋ 123	04/08/22 02:38	8

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	614		20.0	8.7	mg/L			04/13/22 03:37	20

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-2

Lab Sample ID: 480-196479-2 Date Collected: 04/06/22 06:45

Matrix: Water

Date Received: 04/06/22 16:15

Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/08/22 03:01	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/08/22 03:01	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/08/22 03:01	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/08/22 03:01	
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/08/22 03:01	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/08/22 03:01	
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/08/22 03:01	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/08/22 03:01	
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/08/22 03:01	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/08/22 03:01	
1,2-Dichloroethane	ND		1.0		ug/L			04/08/22 03:01	
1,2-Dichloropropane	ND		1.0		ug/L			04/08/22 03:01	
1,3-Dichlorobenzene	ND		1.0		ug/L			04/08/22 03:01	
1,4-Dichlorobenzene	ND		1.0		ug/L			04/08/22 03:01	
2-Butanone (MEK)	ND		10		ug/L			04/08/22 03:01	
2-Hexanone	ND	*+	5.0		ug/L			04/08/22 03:01	
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			04/08/22 03:01	
Acetone	ND		10		ug/L			04/08/22 03:01	
Benzene	ND		1.0		ug/L			04/08/22 03:01	
Bromodichloromethane	ND		1.0		ug/L			04/08/22 03:01	
Bromoform	ND		1.0		ug/L			04/08/22 03:01	
Bromomethane	ND		1.0		ug/L			04/08/22 03:01	
Carbon disulfide	ND		1.0		ug/L			04/08/22 03:01	
Carbon tetrachloride	ND		1.0		ug/L			04/08/22 03:01	
Chlorobenzene	ND		1.0		ug/L			04/08/22 03:01	
Chloroethane	ND		1.0		ug/L			04/08/22 03:01	
Chloroform	ND		1.0		ug/L			04/08/22 03:01	
Chloromethane	ND		1.0		ug/L			04/08/22 03:01	
			1.0		J			04/08/22 03:01	
cis-1,2-Dichloroethene	2.3 ND		1.0		ug/L			04/08/22 03:01	
cis-1,3-Dichloropropene					ug/L				
Cyclohexane Dibromochloromethane	ND ND		1.0		ug/L			04/08/22 03:01	
			1.0		ug/L			04/08/22 03:01	
Dichlorodifluoromethane	ND		1.0		ug/L			04/08/22 03:01	
Ethylbenzene	ND		1.0		ug/L			04/08/22 03:01	
Isopropylbenzene	ND		1.0		ug/L			04/08/22 03:01	
Methyl acetate	ND		2.5		ug/L			04/08/22 03:01	
Methyl tert-butyl ether	ND		1.0		ug/L			04/08/22 03:01	
Methylcyclohexane	ND		1.0		ug/L			04/08/22 03:01	
Methylene Chloride	ND		1.0		ug/L			04/08/22 03:01	
Styrene	ND		1.0		ug/L			04/08/22 03:01	
Tetrachloroethene	ND		1.0		ug/L			04/08/22 03:01	
Toluene	ND		1.0		ug/L			04/08/22 03:01	
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/08/22 03:01	
trans-1,3-Dichloropropene	ND		1.0		ug/L			04/08/22 03:01	
Trichloroethene	ND		1.0		ug/L			04/08/22 03:01	
Trichlorofluoromethane	ND		1.0		ug/L			04/08/22 03:01	
Vinyl chloride	8.8		1.0	0.90	ug/L			04/08/22 03:01	
Xylenes, Total	ND		2.0	0.66	ug/L			04/08/22 03:01	

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-2 Lab Sample ID: 480-196479-2

Date Collected: 04/06/22 06:45

Date Received: 04/06/22 16:15

Matrix: Water

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110	77 - 120		04/08/22 03:01	1
4-Bromofluorobenzene (Surr)	99	73 - 120		04/08/22 03:01	1
Toluene-d8 (Surr)	99	80 - 120		04/08/22 03:01	1
Dibromofluoromethane (Surr)	93	75 - 123		04/08/22 03:01	1

General Chemistry								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	6.4	1.0	0.43	ma/l			04/09/22 10:09	

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-3

Lab Sample ID: 480-196479-3 Date Collected: 04/06/22 07:00

Matrix: Water

Date Received: 04/06/22 16:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			04/08/22 03:24	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			04/08/22 03:24	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			04/08/22 03:24	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			04/08/22 03:24	20
1,1-Dichloroethane	ND		20	7.6	ug/L			04/08/22 03:24	20
1,1-Dichloroethene	ND		20	5.8	ug/L			04/08/22 03:24	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			04/08/22 03:24	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			04/08/22 03:24	20
1,2-Dibromoethane	ND		20		ug/L			04/08/22 03:24	20
1,2-Dichlorobenzene	ND		20		ug/L			04/08/22 03:24	20
1,2-Dichloroethane	ND		20		ug/L			04/08/22 03:24	20
1,2-Dichloropropane	ND		20		ug/L			04/08/22 03:24	20
1,3-Dichlorobenzene	ND		20		ug/L			04/08/22 03:24	20
1,4-Dichlorobenzene	ND		20		ug/L			04/08/22 03:24	20
2-Butanone (MEK)	ND		200		ug/L			04/08/22 03:24	20
2-Hexanone	ND	*+	100		ug/L			04/08/22 03:24	20
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			04/08/22 03:24	20
Acetone	92		200		ug/L			04/08/22 03:24	20
Benzene	ND		20		ug/L			04/08/22 03:24	20
Bromodichloromethane	ND		20		ug/L			04/08/22 03:24	20
Bromoform	ND		20		ug/L			04/08/22 03:24	20
Bromomethane	ND		20		ug/L			04/08/22 03:24	20
Carbon disulfide	ND		20		ug/L			04/08/22 03:24	20
Carbon tetrachloride	ND ND		20		ug/L ug/L			04/08/22 03:24	20
Chlorobenzene	ND		20		ug/L			04/08/22 03:24	20
Chloroethane	ND		20		ug/L			04/08/22 03:24	20
Chloroform	ND ND		20		ug/L ug/L			04/08/22 03:24	20
Chloromethane	ND		20		ug/L ug/L			04/08/22 03:24	20
			20		ug/L ug/L			04/08/22 03:24	20
cis-1,2-Dichloroethene	30 ND		20		-			04/08/22 03:24	20
cis-1,3-Dichloropropene					ug/L				
Cyclohexane Dibromochloromethane	ND		20 20		ug/L			04/08/22 03:24	20
Dichlorodifluoromethane	ND				ug/L			04/08/22 03:24	20
	ND		20		ug/L			04/08/22 03:24	20
Ethylbenzene	ND		20		ug/L			04/08/22 03:24	20
Isopropylbenzene	ND		20		ug/L			04/08/22 03:24	20
Methyl acetate	ND		50		ug/L			04/08/22 03:24	20
Methyl tert-butyl ether	ND		20		ug/L			04/08/22 03:24	20
Methylcyclohexane	ND		20		ug/L			04/08/22 03:24	20
Methylene Chloride	ND		20		ug/L			04/08/22 03:24	20
Styrene	ND		20		ug/L			04/08/22 03:24	20
Tetrachloroethene	ND		20		ug/L			04/08/22 03:24	20
Toluene	ND		20		ug/L			04/08/22 03:24	20
trans-1,2-Dichloroethene	ND		20		ug/L			04/08/22 03:24	20
trans-1,3-Dichloropropene	ND		20		ug/L			04/08/22 03:24	20
Trichloroethene	ND		20	9.2	ug/L			04/08/22 03:24	20
Trichlorofluoromethane	ND		20	18	ug/L			04/08/22 03:24	20
Vinyl chloride	54		20	18	ug/L			04/08/22 03:24	20
Xylenes, Total	ND		40	13	ug/L			04/08/22 03:24	20

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-3 Lab Sample ID: 480-196479-3

Date Collected: 04/06/22 07:00 Matrix: Water

Date Received: 04/06/22 16:15

Total Organic Carbon

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		-		04/08/22 03:24	20
4-Bromofluorobenzene (Surr)	99		73 - 120				04/08/22 03:24	20
Toluene-d8 (Surr)	99		80 - 120				04/08/22 03:24	20
Dibromofluoromethane (Surr)	94		75 - 123				04/08/22 03:24	20
General Chemistry					_	_		
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

5.0

2.2 mg/L

98.0

Dil Fac 5

04/13/22 04:05

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Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-4

trans-1,2-Dichloroethene

Trichlorofluoromethane

Trichloroethene

Vinyl chloride

Xylenes, Total

trans-1,3-Dichloropropene

Date Collected: 04/06/22 07:15 Date Received: 04/06/22 16:15 Lab Sample ID: 480-196479-4

Matrix: Water

Analyte	Result Qualifi	er RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	4.0	3.3	ug/L			04/08/22 03:47	4
1,1,2,2-Tetrachloroethane	ND	4.0	0.84	ug/L			04/08/22 03:47	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.0	1.2	ug/L			04/08/22 03:47	4
1,1,2-Trichloroethane	ND	4.0	0.92	ug/L			04/08/22 03:47	4
1,1-Dichloroethane	2.9 J	4.0	1.5	ug/L			04/08/22 03:47	4
1,1-Dichloroethene	ND	4.0	1.2	ug/L			04/08/22 03:47	4
1,2,4-Trichlorobenzene	ND	4.0	1.6	ug/L			04/08/22 03:47	4
1,2-Dibromo-3-Chloropropane	ND	4.0	1.6	ug/L			04/08/22 03:47	4
1,2-Dibromoethane	ND	4.0	2.9	ug/L			04/08/22 03:47	4
1,2-Dichlorobenzene	ND	4.0	3.2	ug/L			04/08/22 03:47	4
1,2-Dichloroethane	ND	4.0	0.84	ug/L			04/08/22 03:47	4
1,2-Dichloropropane	ND	4.0	2.9	ug/L			04/08/22 03:47	4
1,3-Dichlorobenzene	ND	4.0	3.1	ug/L			04/08/22 03:47	4
1,4-Dichlorobenzene	ND	4.0	3.4	ug/L			04/08/22 03:47	4
2-Butanone (MEK)	ND	40	5.3	ug/L			04/08/22 03:47	4
2-Hexanone	ND *+	20	5.0	ug/L			04/08/22 03:47	4
4-Methyl-2-pentanone (MIBK)	ND *+	20	8.4	ug/L			04/08/22 03:47	4
Acetone	ND	40	12	ug/L			04/08/22 03:47	4
Benzene	ND	4.0	1.6	ug/L			04/08/22 03:47	4
Bromodichloromethane	ND	4.0	1.6	ug/L			04/08/22 03:47	4
Bromoform	ND	4.0	1.0	ug/L			04/08/22 03:47	4
Bromomethane	ND	4.0	2.8	ug/L			04/08/22 03:47	4
Carbon disulfide	ND	4.0	0.76	ug/L			04/08/22 03:47	4
Carbon tetrachloride	ND	4.0	1.1	ug/L			04/08/22 03:47	4
Chlorobenzene	ND	4.0	3.0	ug/L			04/08/22 03:47	4
Chloroethane	ND	4.0	1.3	ug/L			04/08/22 03:47	4
Chloroform	ND	4.0	1.4	ug/L			04/08/22 03:47	4
Chloromethane	ND	4.0	1.4	ug/L			04/08/22 03:47	4
cis-1,2-Dichloroethene	250	4.0	3.2	ug/L			04/08/22 03:47	4
cis-1,3-Dichloropropene	ND	4.0	1.4	ug/L			04/08/22 03:47	4
Cyclohexane	ND	4.0	0.72	ug/L			04/08/22 03:47	4
Dibromochloromethane	ND	4.0	1.3	ug/L			04/08/22 03:47	4
Dichlorodifluoromethane	ND	4.0	2.7	ug/L			04/08/22 03:47	4
Ethylbenzene	ND	4.0	3.0	ug/L			04/08/22 03:47	4
Isopropylbenzene	ND	4.0	3.2	ug/L			04/08/22 03:47	4
Methyl acetate	ND	10	5.2	ug/L			04/08/22 03:47	4
Methyl tert-butyl ether	ND	4.0	0.64	ug/L			04/08/22 03:47	4
Methylcyclohexane	ND	4.0	0.64	ug/L			04/08/22 03:47	4
Methylene Chloride	ND	4.0	1.8	ug/L			04/08/22 03:47	4
Styrene	ND	4.0	2.9	ug/L			04/08/22 03:47	4
Tetrachloroethene	ND	4.0	1.4	ug/L			04/08/22 03:47	4

Eurofins Buffalo

04/08/22 03:47

04/08/22 03:47

04/08/22 03:47

04/08/22 03:47

04/08/22 03:47

04/08/22 03:47

04/08/22 03:47

4.0

4.0

4.0

4.0

4.0

4.0

8.0

2.0 ug/L

3.6 ug/L

1.5 ug/L

1.8 ug/L

3.5 ug/L

3.6 ug/L

2.6 ug/L

ND

ND

ND

60

ND

130

ND

4

4

2

4

8

4 4

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-4 Lab Sample ID: 480-196479-4

Date Collected: 04/06/22 07:15 **Matrix: Water** Date Received: 04/06/22 16:15

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 104 77 - 120 04/08/22 03:47 4-Bromofluorobenzene (Surr) 100 73 - 120 04/08/22 03:47 4 Toluene-d8 (Surr) 99 80 - 120 04/08/22 03:47 Dibromofluoromethane (Surr) 89 75 - 123 04/08/22 03:47

General Chemistry							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	11.0	1.0	0.43 mg/L			04/09/22 11:07	1

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-5

Lab Sample ID: 480-196479-5 Date Collected: 04/06/22 07:45

Matrix: Water Date Received: 04/06/22 16:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			04/08/22 04:09	
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			04/08/22 04:09	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			04/08/22 04:09	
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			04/08/22 04:09	
1,1-Dichloroethane	3.3	J	4.0	1.5	ug/L			04/08/22 04:09	
1,1-Dichloroethene	ND		4.0	1.2	ug/L			04/08/22 04:09	
1,2,4-Trichlorobenzene	ND		4.0		ug/L			04/08/22 04:09	
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/L			04/08/22 04:09	
1,2-Dibromoethane	ND		4.0		ug/L			04/08/22 04:09	
1,2-Dichlorobenzene	ND		4.0		ug/L			04/08/22 04:09	
1,2-Dichloroethane	ND		4.0	0.84				04/08/22 04:09	
1,2-Dichloropropane	ND		4.0		ug/L			04/08/22 04:09	
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			04/08/22 04:09	
1,4-Dichlorobenzene	ND		4.0		ug/L			04/08/22 04:09	
2-Butanone (MEK)	32	J	40		ug/L			04/08/22 04:09	
2-Hexanone	ND		20		ug/L			04/08/22 04:09	
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			04/08/22 04:09	
Acetone	120		40		ug/L			04/08/22 04:09	
Benzene	ND		4.0		ug/L			04/08/22 04:09	
Bromodichloromethane	ND		4.0		ug/L			04/08/22 04:09	
Bromoform	ND		4.0		ug/L			04/08/22 04:09	
Bromomethane	ND		4.0		ug/L			04/08/22 04:09	'
Carbon disulfide	1.7	1	4.0	0.76	_			04/08/22 04:09	
Carbon tetrachloride	ND	•	4.0		ug/L			04/08/22 04:09	
Chlorobenzene	ND		4.0		ug/L			04/08/22 04:09	'
Chloroethane	19		4.0		ug/L			04/08/22 04:09	·
Chloroform	ND		4.0		ug/L			04/08/22 04:09	·
Chloromethane	ND		4.0		ug/L			04/08/22 04:09	'
	13		4.0		ug/L ug/L			04/08/22 04:09	
cis-1,2-Dichloroethene cis-1,3-Dichloropropene	ND		4.0		ug/L ug/L			04/08/22 04:09	
Cyclohexane	ND		4.0	0.72				04/08/22 04:09	
Dibromochloromethane	ND ND		4.0		ug/L ug/L			04/08/22 04:09	
Dichlorodifluoromethane	ND ND		4.0		-			04/08/22 04:09	
	ND				ug/L ug/L			04/08/22 04:09	
Ethylbenzene			4.0		-				
Isopropylbenzene	ND		4.0		ug/L			04/08/22 04:09	
Methyl acetate	ND		10		ug/L			04/08/22 04:09	
Methyl tert-butyl ether	ND		4.0		ug/L			04/08/22 04:09	
Methylcyclohexane	ND		4.0		ug/L			04/08/22 04:09	
Methylene Chloride	ND		4.0		ug/L			04/08/22 04:09	
Styrene	ND		4.0		ug/L			04/08/22 04:09	
Tetrachloroethene	ND		4.0		ug/L			04/08/22 04:09	
Toluene	2.0	J	4.0		ug/L			04/08/22 04:09	
trans-1,2-Dichloroethene	ND		4.0		ug/L			04/08/22 04:09	
trans-1,3-Dichloropropene	ND		4.0		ug/L			04/08/22 04:09	,
Trichloroethene	ND		4.0		ug/L			04/08/22 04:09	
Trichlorofluoromethane	ND		4.0		ug/L			04/08/22 04:09	,
Vinyl chloride	12 ND		4.0	3.6	ug/L			04/08/22 04:09 04/08/22 04:09	

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-5 Lab Sample ID: 480-196479-5

Date Collected: 04/06/22 07:45 Matrix: Water

Surrogate	%Recovery Qualifier	Limits	Prepared A	nalyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108	77 - 120	04/0	08/22 04:09	4
4-Bromofluorobenzene (Surr)	103	73 - 120	04/0	08/22 04:09	4
Toluene-d8 (Surr)	98	80 - 120	04/0	08/22 04:09	4
Dibromofluoromethane (Surr)	88	75 - 123	04/0	08/22 04:09	4
General Chemistry					

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	86.4		10.0	4.3	mg/L			04/09/22 11:37	10

4/25/2022

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Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-6

Date Received: 04/06/22 16:15

Date Collected: 04/06/22 08:00

Lab Sample ID: 480-196479-6 **Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/08/22 04:32	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/08/22 04:32	•
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/08/22 04:32	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/08/22 04:32	
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/08/22 04:32	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/08/22 04:32	
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/08/22 04:32	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/08/22 04:32	
1,2-Dibromoethane	ND		1.0		ug/L			04/08/22 04:32	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/08/22 04:32	
1,2-Dichloroethane	ND		1.0		ug/L			04/08/22 04:32	
1,2-Dichloropropane	ND		1.0		ug/L			04/08/22 04:32	
1,3-Dichlorobenzene	ND		1.0		ug/L			04/08/22 04:32	
1,4-Dichlorobenzene	ND		1.0		ug/L			04/08/22 04:32	
2-Butanone (MEK)	ND		10		ug/L			04/08/22 04:32	
2-Hexanone	ND	*+	5.0		ug/L			04/08/22 04:32	
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			04/08/22 04:32	
Acetone	ND		10		ug/L			04/08/22 04:32	
Benzene	ND		1.0		ug/L			04/08/22 04:32	,
Bromodichloromethane	ND		1.0		ug/L			04/08/22 04:32	
Bromoform	ND		1.0		ug/L			04/08/22 04:32	
Bromomethane	ND		1.0		ug/L			04/08/22 04:32	
Carbon disulfide	ND		1.0		ug/L			04/08/22 04:32	
Carbon tetrachloride	ND		1.0		ug/L			04/08/22 04:32	
Chlorobenzene	ND		1.0		ug/L			04/08/22 04:32	
Chloroethane	ND		1.0	0.32	-			04/08/22 04:32	
Chloroform	ND		1.0		ug/L			04/08/22 04:32	
Chloromethane	ND		1.0	0.35				04/08/22 04:32	
cis-1,2-Dichloroethene	ND		1.0	0.81	_			04/08/22 04:32	
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/08/22 04:32	
Cyclohexane	ND		1.0	0.18				04/08/22 04:32	
Dibromochloromethane	ND		1.0	0.32	_			04/08/22 04:32	
Dichlorodifluoromethane	ND		1.0	0.68	_			04/08/22 04:32	
Ethylbenzene	ND		1.0		ug/L			04/08/22 04:32	
Isopropylbenzene	ND		1.0	0.79	-			04/08/22 04:32	
Methyl acetate	ND		2.5		ug/L			04/08/22 04:32	
Methyl tert-butyl ether	ND		1.0		ug/L			04/08/22 04:32	
Methylcyclohexane	ND		1.0		ug/L			04/08/22 04:32	,
Methylene Chloride	ND		1.0		ug/L			04/08/22 04:32	
Styrene	ND		1.0		ug/L			04/08/22 04:32	
Tetrachloroethene	ND		1.0					04/08/22 04:32	,
Toluene	ND ND		1.0		ug/L ug/L			04/08/22 04:32	,
trans-1,2-Dichloroethene	ND		1.0		ug/L ug/L			04/08/22 04:32	
trans-1,3-Dichloropropene	ND ND		1.0					04/08/22 04:32	
trans-1,3-Dictiloroproperie Trichloroethene	ND ND				ug/L ug/L				,
Trichlorofluoromethane			1.0					04/08/22 04:32	
	ND		1.0		ug/L			04/08/22 04:32	,
Vinyl chloride	ND		1.0	0.90	ug/L			04/08/22 04:32	•

Eurofins Buffalo

4/25/2022

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-6 Lab Sample ID: 480-196479-6

Date Collected: 04/06/22 08:00 Matrix: Water

Date Collected: 04/06/22 08:00 Matrix: wate Date Received: 04/06/22 16:15

Surrogate	%Recovery 0	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120					04/08/22 04:32	1
4-Bromofluorobenzene (Surr)	98		73 - 120					04/08/22 04:32	1
Toluene-d8 (Surr)	95		80 - 120					04/08/22 04:32	1
Dibromofluoromethane (Surr)	91		75 - 123					04/08/22 04:32	1
General Chemistry									
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	6.0		1.0	0.43	mg/L			04/09/22 12:07	1

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-7

Lab Sample ID: 480-196479-7 Date Collected: 04/06/22 08:15

Matrix: Water

Date Received: 04/06/22 16:15

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	2.0	1.6	ug/L			04/08/22 04:55	
1,1,2,2-Tetrachloroethane	ND	2.0	0.42	ug/L			04/08/22 04:55	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0	0.62	ug/L			04/08/22 04:55	
1,1,2-Trichloroethane	ND	2.0	0.46	ug/L			04/08/22 04:55	
1,1-Dichloroethane	ND	2.0	0.76	ug/L			04/08/22 04:55	
1,1-Dichloroethene	ND	2.0	0.58	ug/L			04/08/22 04:55	
1,2,4-Trichlorobenzene	ND	2.0	0.82	ug/L			04/08/22 04:55	
1,2-Dibromo-3-Chloropropane	ND	2.0	0.78	ug/L			04/08/22 04:55	
1,2-Dibromoethane	ND	2.0	1.5	ug/L			04/08/22 04:55	
1,2-Dichlorobenzene	ND	2.0	1.6	ug/L			04/08/22 04:55	
1,2-Dichloroethane	ND	2.0		ug/L			04/08/22 04:55	
1,2-Dichloropropane	ND	2.0	1.4	ug/L			04/08/22 04:55	
1,3-Dichlorobenzene	ND	2.0		ug/L			04/08/22 04:55	
1,4-Dichlorobenzene	ND	2.0		ug/L			04/08/22 04:55	
2-Butanone (MEK)	ND	20		ug/L			04/08/22 04:55	
2-Hexanone	ND *+	10		ug/L			04/08/22 04:55	
4-Methyl-2-pentanone (MIBK)	ND *+	10		ug/L			04/08/22 04:55	
Acetone	7.8 J	20		ug/L			04/08/22 04:55	
Benzene	ND	2.0	0.82				04/08/22 04:55	
Bromodichloromethane	ND	2.0	0.78	-			04/08/22 04:55	
Bromoform	ND	2.0	0.52	_			04/08/22 04:55	
3romomethane	ND	2.0		ug/L			04/08/22 04:55	
Carbon disulfide	ND	2.0	0.38	-			04/08/22 04:55	
Carbon tetrachloride	ND	2.0		ug/L			04/08/22 04:55	
Chlorobenzene	ND	2.0		ug/L			04/08/22 04:55	
Chloroethane	62	2.0		ug/L			04/08/22 04:55	
Chloroform	ND	2.0		ug/L			04/08/22 04:55	
Chloromethane	ND	2.0		ug/L			04/08/22 04:55	
		2.0		ug/L ug/L			04/08/22 04:55	
cis-1,2-Dichloroethene cis-1,3-Dichloropropene	6.5 ND	2.0	0.72				04/08/22 04:55	
Cyclohexane	ND	2.0		ug/L			04/08/22 04:55	
Dibromochloromethane	ND ND	2.0		ug/L ug/L			04/08/22 04:55	
Dichlorodifluoromethane	ND ND			_				
Ethylbenzene	ND	2.0		ug/L ug/L			04/08/22 04:55 04/08/22 04:55	
	ND ND	2.0		ug/L ug/L			04/08/22 04:55	
Isopropylbenzene				•				
Methyl acetate	ND	5.0		ug/L			04/08/22 04:55	
Methyl tert-butyl ether	ND	2.0		ug/L			04/08/22 04:55	
Methylcyclohexane	ND	2.0		ug/L			04/08/22 04:55	
Methylene Chloride	ND	2.0		ug/L			04/08/22 04:55	
Styrene	ND	2.0		ug/L			04/08/22 04:55	
Tetrachloroethene	ND	2.0		ug/L			04/08/22 04:55	
Toluene	1.1 J	2.0		ug/L			04/08/22 04:55	
trans-1,2-Dichloroethene	ND	2.0		ug/L			04/08/22 04:55	
trans-1,3-Dichloropropene	ND	2.0		ug/L			04/08/22 04:55	
Trichloroethene	ND	2.0		ug/L			04/08/22 04:55	
Trichlorofluoromethane	ND	2.0		ug/L			04/08/22 04:55	
Vinyl chloride	5.2	2.0		ug/L			04/08/22 04:55	
Xylenes, Total	ND	4.0	1.3	ug/L			04/08/22 04:55	

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-7 Lab Sample ID: 480-196479-7

Date Collected: 04/06/22 08:15

Date Received: 04/06/22 16:15

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			77 - 120			•		04/08/22 04:55	2
4-Bromofluorobenzene (Surr)	98		73 - 120					04/08/22 04:55	2
Toluene-d8 (Surr)	99		80 - 120					04/08/22 04:55	2
Dibromofluoromethane (Surr)	92		75 - 123					04/08/22 04:55	2
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	12.4		1.0	0.43	mg/L			04/09/22 15:02	1

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-8

Lab Sample ID: 480-196479-8 Date Collected: 04/06/22 08:33

Matrix: Water

Date Received: 04/06/22 16:15

Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	100		100	82	ug/L			04/08/22 05:18	10
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			04/08/22 05:18	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			04/08/22 05:18	10
1,1,2-Trichloroethane	ND		100	23	ug/L			04/08/22 05:18	10
1,1-Dichloroethane	120		100	38	ug/L			04/08/22 05:18	10
1,1-Dichloroethene	ND		100	29	ug/L			04/08/22 05:18	10
1,2,4-Trichlorobenzene	ND		100	41	ug/L			04/08/22 05:18	10
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			04/08/22 05:18	10
1,2-Dibromoethane	ND		100	73	ug/L			04/08/22 05:18	10
1,2-Dichlorobenzene	ND		100	79	ug/L			04/08/22 05:18	10
1,2-Dichloroethane	ND		100	21	ug/L			04/08/22 05:18	10
1,2-Dichloropropane	ND		100		ug/L			04/08/22 05:18	10
1,3-Dichlorobenzene	ND		100		ug/L			04/08/22 05:18	10
1,4-Dichlorobenzene	ND		100		ug/L			04/08/22 05:18	10
2-Butanone (MEK)	ND		1000		ug/L			04/08/22 05:18	10
2-Hexanone	ND	*+ F1	500		ug/L			04/08/22 05:18	10
4-Methyl-2-pentanone (MIBK)		*+ F1	500		ug/L			04/08/22 05:18	10
Acetone	ND		1000		ug/L			04/08/22 05:18	10
Benzene	ND		100	41				04/08/22 05:18	10
Bromodichloromethane	ND		100		ug/L			04/08/22 05:18	10
Bromoform	ND		100		ug/L			04/08/22 05:18	10
Bromomethane	ND	F2	100		ug/L			04/08/22 05:18	10
Carbon disulfide	ND	. –	100		ug/L			04/08/22 05:18	10
Carbon tetrachloride	ND		100		ug/L			04/08/22 05:18	10
Chlorobenzene	ND		100		ug/L			04/08/22 05:18	10
Chloroethane	47	.1	100		ug/L			04/08/22 05:18	10
Chloroform	ND	•	100		ug/L			04/08/22 05:18	10
Chloromethane	ND		100		ug/L			04/08/22 05:18	10
cis-1,2-Dichloroethene	4500	F1	100	81	•			04/08/22 05:18	10
cis-1,3-Dichloropropene	ND	• •	100		ug/L			04/08/22 05:18	10
Cyclohexane	ND		100		ug/L			04/08/22 05:18	10
Dibromochloromethane	ND		100		ug/L			04/08/22 05:18	10
Dichlorodifluoromethane	ND		100		ug/L			04/08/22 05:18	10
Ethylbenzene	ND		100		ug/L			04/08/22 05:18	10
Isopropylbenzene	ND		100		ug/L			04/08/22 05:18	10
Methyl acetate	ND		250		ug/L			04/08/22 05:18	10
								04/08/22 05:18	
Methyl tert-butyl ether	ND		100		ug/L				10
Methylcyclohexane	ND		100		ug/L			04/08/22 05:18	10
Methylene Chloride	ND		100		ug/L			04/08/22 05:18	10
Styrene	ND		100		ug/L			04/08/22 05:18	10
Tetrachloroethene	ND		100		ug/L			04/08/22 05:18	10
Toluene	ND		100		ug/L			04/08/22 05:18	10
trans-1,2-Dichloroethene	ND		100		ug/L			04/08/22 05:18	10
trans-1,3-Dichloropropene	ND		100		ug/L			04/08/22 05:18	10
Trichloroethene	ND		100		ug/L			04/08/22 05:18	10
Trichlorofluoromethane	ND		100		ug/L			04/08/22 05:18	10
Vinyl chloride	1900	F1	100	90	ug/L			04/08/22 05:18	10

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-8 Lab Sample ID: 480-196479-8

Date Collected: 04/06/22 08:33

Date Received: 04/06/22 16:15

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120					04/08/22 05:18	100
4-Bromofluorobenzene (Surr)	99		73 - 120					04/08/22 05:18	100
Toluene-d8 (Surr)	100		80 - 120					04/08/22 05:18	100
Dibromofluoromethane (Surr)	92		75 - 123					04/08/22 05:18	100
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	31.5		1.0	0.43	mg/L			04/09/22 16:00	1

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: GWCT

Date Collected: 04/06/22 09:00

Lab Sample ID: 480-196479-9 **Matrix: Water**

Date Received: 04/06/22 16:15

Method: 8260C - Volatile Orgar ^{Analyte}	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND —	1.0		ug/L			04/08/22 05:41	
1,1,2,2-Tetrachloroethane	ND	1.0		ug/L			04/08/22 05:41	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0		ug/L			04/08/22 05:41	
1,1,2-Trichloroethane	ND	1.0		ug/L			04/08/22 05:41	
1,1-Dichloroethane	ND	1.0	0.38	-			04/08/22 05:41	
1,1-Dichloroethene	ND	1.0	0.29	-			04/08/22 05:41	
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			04/08/22 05:41	
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	-			04/08/22 05:41	
1,2-Dibromoethane	ND	1.0	0.73	-			04/08/22 05:41	
1,2-Dichlorobenzene	ND	1.0		ug/L			04/08/22 05:41	
1,2-Dichloroethane	ND	1.0	0.21	-			04/08/22 05:41	
1,2-Dichloropropane	ND	1.0		ug/L			04/08/22 05:41	
1,3-Dichlorobenzene	ND	1.0		ug/L			04/08/22 05:41	
1,4-Dichlorobenzene	ND	1.0	0.84	-			04/08/22 05:41	
2-Butanone (MEK)	ND	10		ug/L			04/08/22 05:41	
2-Hexanone	ND *+	5.0		ug/L			04/08/22 05:41	
4-Methyl-2-pentanone (MIBK)	ND *+	5.0		ug/L			04/08/22 05:41	
Acetone	ND	10		ug/L			04/08/22 05:41	
Benzene	ND	1.0	0.41	ug/L			04/08/22 05:41	
Bromodichloromethane	ND	1.0		ug/L			04/08/22 05:41	
Bromoform	ND	1.0	0.26	ug/L			04/08/22 05:41	
Bromomethane	ND	1.0	0.69				04/08/22 05:41	
Carbon disulfide	ND	1.0		ug/L			04/08/22 05:41	
Carbon tetrachloride	ND	1.0		ug/L			04/08/22 05:41	
Chlorobenzene	ND	1.0		ug/L			04/08/22 05:41	
Chloroethane	24	1.0		ug/L			04/08/22 05:41	
Chloroform	ND	1.0		ug/L			04/08/22 05:41	
Chloromethane	ND	1.0		ug/L			04/08/22 05:41	
cis-1,2-Dichloroethene	ND	1.0		ug/L			04/08/22 05:41	
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			04/08/22 05:41	
Cyclohexane	ND	1.0	0.18	ug/L			04/08/22 05:41	
Dibromochloromethane	ND	1.0	0.32	-			04/08/22 05:41	
Dichlorodifluoromethane	ND	1.0	0.68	ug/L			04/08/22 05:41	
Ethylbenzene	ND	1.0	0.74	ug/L			04/08/22 05:41	
Isopropylbenzene	ND	1.0	0.79	ug/L			04/08/22 05:41	
Methyl acetate	ND	2.5	1.3	ug/L			04/08/22 05:41	
Methyl tert-butyl ether	ND	1.0	0.16	ug/L			04/08/22 05:41	
Methylcyclohexane	ND	1.0		ug/L			04/08/22 05:41	
Methylene Chloride	ND	1.0	0.44	ug/L			04/08/22 05:41	
Styrene	ND	1.0		ug/L			04/08/22 05:41	
Tetrachloroethene	ND	1.0	0.36	ug/L			04/08/22 05:41	
Toluene	ND	1.0		ug/L			04/08/22 05:41	
trans-1,2-Dichloroethene	ND	1.0		ug/L			04/08/22 05:41	
trans-1,3-Dichloropropene	ND	1.0		ug/L			04/08/22 05:41	
Trichloroethene	ND	1.0		ug/L			04/08/22 05:41	
Trichlorofluoromethane	ND	1.0		ug/L			04/08/22 05:41	
Vinyl chloride	ND	1.0		ug/L			04/08/22 05:41	
Xylenes, Total	ND	2.0		ug/L			04/08/22 05:41	

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: GWCT Lab Sample ID: 480-196479-9

Date Collected: 04/06/22 09:00 Matrix: Water Date Received: 04/06/22 16:15

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			77 - 120					04/08/22 05:41	1
4-Bromofluorobenzene (Surr)	96		73 - 120					04/08/22 05:41	1
Toluene-d8 (Surr)	97		80 - 120					04/08/22 05:41	1
Dibromofluoromethane (Surr)	92		75 - 123					04/08/22 05:41	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	3.3		1.0	0.43	mg/L			04/09/22 16:30	1

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: Rinse Blank

Lab Sample ID: 480-196479-10 Date Collected: 04/06/22 06:30

Matrix: Water

Date Received: 04/06/22 16:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/08/22 06:04	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/08/22 06:04	•
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/08/22 06:04	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/08/22 06:04	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/08/22 06:04	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/08/22 06:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/08/22 06:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/08/22 06:04	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/08/22 06:04	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/08/22 06:04	1
1,2-Dichloroethane	ND		1.0					04/08/22 06:04	1
1,2-Dichloropropane	ND		1.0		ug/L			04/08/22 06:04	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/08/22 06:04	1
1,4-Dichlorobenzene	ND		1.0	0.84	-			04/08/22 06:04	
2-Butanone (MEK)	ND		10		ug/L			04/08/22 06:04	1
2-Hexanone	ND	*+	5.0		ug/L			04/08/22 06:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			04/08/22 06:04	1
Acetone	ND	•	10		ug/L			04/08/22 06:04	1
Benzene	ND		1.0		ug/L			04/08/22 06:04	
Bromodichloromethane	ND ND		1.0	0.41	-			04/08/22 06:04	,
Bromoform	ND		1.0	0.39	_			04/08/22 06:04	,
Bromomethane	ND		1.0		ug/L ug/L			04/08/22 06:04	,
Carbon disulfide	ND ND				-				
	ND ND		1.0 1.0	0.19	-			04/08/22 06:04	1
Carbon tetrachloride	ND ND			0.27	-			04/08/22 06:04	
Chlorobenzene			1.0		ug/L			04/08/22 06:04	1
Chloroethane	ND		1.0	0.32	-			04/08/22 06:04	1
Chloroform	ND		1.0		ug/L			04/08/22 06:04	1
Chloromethane	ND		1.0	0.35	•			04/08/22 06:04	1
cis-1,2-Dichloroethene	ND		1.0	0.81	-			04/08/22 06:04	1
cis-1,3-Dichloropropene	ND		1.0	0.36				04/08/22 06:04	1
Cyclohexane	ND		1.0	0.18	-			04/08/22 06:04	•
Dibromochloromethane	ND		1.0	0.32	_			04/08/22 06:04	•
Dichlorodifluoromethane	ND		1.0		ug/L			04/08/22 06:04	
Ethylbenzene	ND		1.0	0.74	-			04/08/22 06:04	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/08/22 06:04	1
Methyl acetate	ND		2.5		ug/L			04/08/22 06:04	
Methyl tert-butyl ether	ND		1.0		ug/L			04/08/22 06:04	•
Methylcyclohexane	ND		1.0	0.16	ug/L			04/08/22 06:04	•
Methylene Chloride	ND		1.0	0.44	ug/L			04/08/22 06:04	
Styrene	ND		1.0	0.73	ug/L			04/08/22 06:04	•
Tetrachloroethene	ND		1.0	0.36	ug/L			04/08/22 06:04	,
Toluene	ND		1.0	0.51	ug/L			04/08/22 06:04	
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/08/22 06:04	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/08/22 06:04	•
Trichloroethene	ND		1.0	0.46	ug/L			04/08/22 06:04	1
Trichlorofluoromethane	ND		1.0		ug/L			04/08/22 06:04	1
Vinyl chloride	ND		1.0		ug/L			04/08/22 06:04	1
Xylenes, Total	ND		2.0		ug/L			04/08/22 06:04	1

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: Rinse Blank Lab Sample ID: 480-196479-10

Date Collected: 04/06/22 06:30 Lab Cample 15: 450-150475-16

Date Received: 04/06/22 16:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		04/08/22 06:04	1
4-Bromofluorobenzene (Surr)	95		73 - 120		04/08/22 06:04	1
Toluene-d8 (Surr)	98		80 - 120		04/08/22 06:04	1
Dibromofluoromethane (Surr)	91		75 - 123		04/08/22 06:04	1

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Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-4

Date Collected: 04/06/22 09:45 Date Received: 04/07/22 16:15 Lab Sample ID: 480-196481-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/11/22 13:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/11/22 13:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/11/22 13:44	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/11/22 13:44	1
1,1-Dichloroethane	2.2		1.0	0.38	ug/L			04/11/22 13:44	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/11/22 13:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/11/22 13:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/11/22 13:44	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/11/22 13:44	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/11/22 13:44	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/11/22 13:44	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/11/22 13:44	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/11/22 13:44	1
1,4-Dichlorobenzene	ND		1.0	0.84	-			04/11/22 13:44	1
2-Butanone (MEK)	3.7	J	10		ug/L			04/11/22 13:44	1
2-Hexanone	ND		5.0	1.2	ug/L			04/11/22 13:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/11/22 13:44	1
Acetone	5.0	J	10	3.0	ug/L			04/11/22 13:44	1
Benzene	1.1		1.0	0.41	ug/L			04/11/22 13:44	1
Bromodichloromethane	ND		1.0	0.39	-			04/11/22 13:44	1
Bromoform	ND		1.0	0.26	ug/L			04/11/22 13:44	1
Bromomethane	ND		1.0	0.69	ug/L			04/11/22 13:44	1
Carbon disulfide	ND		1.0	0.19	_			04/11/22 13:44	1
Carbon tetrachloride	ND		1.0	0.27	-			04/11/22 13:44	1
Chlorobenzene	ND		1.0	0.75				04/11/22 13:44	1
Chloroethane	62		1.0	0.32	ug/L			04/11/22 13:44	1
Chloroform	ND		1.0	0.34	ug/L			04/11/22 13:44	1
Chloromethane	ND		1.0	0.35	ug/L			04/11/22 13:44	1
cis-1,2-Dichloroethene	3.3		1.0	0.81	ug/L			04/11/22 13:44	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/11/22 13:44	1
Cyclohexane	ND		1.0	0.18	ug/L			04/11/22 13:44	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/11/22 13:44	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/11/22 13:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/11/22 13:44	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/11/22 13:44	1
Methyl acetate	ND		2.5	1.3	ug/L			04/11/22 13:44	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/22 13:44	1
Methylcyclohexane	ND		1.0	0.16				04/11/22 13:44	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/11/22 13:44	1
Styrene	ND		1.0	0.73	ug/L			04/11/22 13:44	1
Tetrachloroethene	ND		1.0	0.36				04/11/22 13:44	1
Toluene	2.7		1.0	0.51	-			04/11/22 13:44	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/22 13:44	1
trans-1,3-Dichloropropene	ND		1.0	0.37	-			04/11/22 13:44	1
Trichloroethene	ND		1.0	0.46	-			04/11/22 13:44	1
Trichlorofluoromethane	ND		1.0	0.88				04/11/22 13:44	1
Vinyl chloride	9.1		1.0	0.90	-			04/11/22 13:44	1
Xylenes, Total	ND		2.0		ug/L			04/11/22 13:44	1

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Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-4

Date Received: 04/07/22 16:15

Lab Sample ID: 480-196481-1 Date Collected: 04/06/22 09:45

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					04/11/22 13:44	1
4-Bromofluorobenzene (Surr)	101		73 - 120					04/11/22 13:44	1
Toluene-d8 (Surr)	98		80 - 120					04/11/22 13:44	1
Dibromofluoromethane (Surr)	104		75 - 123					04/11/22 13:44	1
Method: RSK-175 - Dissolv	ed Gases (GC)								
Method: RSK-175 - Dissolv	ed Gases (GC)								
Analyte	Result	Qualifier	RL	MDL 3800		<u>D</u> .	Prepared	Analyzed	Dil Fac
Analyte Carbon dioxide	Result 32000	Qualifier	5000	3800	ug/L	<u>D</u> .	Prepared	04/11/22 11:19	1
	Result	Qualifier		3800 130		<u>D</u> .	Prepared	-	Dil Fac 1 88 88

Method: 200.7 Rev 4.4 - Metals	(ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8.4		0.050	0.019	mg/L		04/11/22 09:18	04/12/22 17:44	1

Method: 200.7 Rev 4.4 - Metals	(ICP) - Dis	solved							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.87		0.050	0.019	mg/L		04/14/22 08:53	04/14/22 18:43	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		20.0	3.5	mg/L			04/16/22 03:23	10
Alkalinity, Total	352	В	50.0	20.0	mg/L			04/15/22 00:35	5
Nitrate as N	0.024	J	0.050	0.020	mg/L			04/07/22 13:02	1
Nitrite as N	ND		0.050	0.020	mg/L			04/07/22 13:02	1
Total Organic Carbon	28.6		1.0	0.43	mg/L			04/09/22 21:55	1
Ferric Iron	8.4		0.10	0.075	mg/L			04/19/22 13:53	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			04/09/22 16:10	1
Sulfide	ND		1.0	0.67	mg/L			04/11/22 13:50	1

4/25/2022

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-8R

Lab Sample ID: 480-196481-2

Matrix: Water

Date Collected: 04/06/22 12:00 Date Received: 04/07/22 16:15

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
I,1,1-Trichloroethane	ND	8.0	6.6	ug/L			04/11/22 14:07	
1,1,2,2-Tetrachloroethane	ND	8.0	1.7	ug/L			04/11/22 14:07	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8.0	2.5	ug/L			04/11/22 14:07	
1,1,2-Trichloroethane	ND	8.0	1.8	ug/L			04/11/22 14:07	
1,1-Dichloroethane	4.1 J	8.0	3.0	ug/L			04/11/22 14:07	
1,1-Dichloroethene	ND	8.0	2.3	ug/L			04/11/22 14:07	
1,2,4-Trichlorobenzene	ND	8.0	3.3	ug/L			04/11/22 14:07	
1,2-Dibromo-3-Chloropropane	ND	8.0	3.1	ug/L			04/11/22 14:07	
1,2-Dibromoethane	ND	8.0	5.8	ug/L			04/11/22 14:07	
1,2-Dichlorobenzene	ND	8.0		ug/L			04/11/22 14:07	
1,2-Dichloroethane	ND	8.0	1.7	ug/L			04/11/22 14:07	
1,2-Dichloropropane	ND	8.0		ug/L			04/11/22 14:07	
1,3-Dichlorobenzene	ND	8.0		ug/L			04/11/22 14:07	
1,4-Dichlorobenzene	ND	8.0		ug/L			04/11/22 14:07	
2-Butanone (MEK)	ND	80		ug/L			04/11/22 14:07	
2-Hexanone	ND	40		ug/L			04/11/22 14:07	
I-Methyl-2-pentanone (MIBK)	ND	40		ug/L			04/11/22 14:07	
Acetone	ND	80		ug/L			04/11/22 14:07	
Benzene	ND	8.0		ug/L			04/11/22 14:07	
Bromodichloromethane	ND	8.0		ug/L			04/11/22 14:07	
Bromoform	ND	8.0		ug/L			04/11/22 14:07	
Bromomethane	ND	8.0		ug/L			04/11/22 14:07	
Carbon disulfide	ND	8.0		ug/L			04/11/22 14:07	
Carbon tetrachloride	ND	8.0		ug/L			04/11/22 14:07	
Chlorobenzene	ND	8.0		ug/L			04/11/22 14:07	
Chloroethane	29	8.0		ug/L			04/11/22 14:07	
Chloroform	ND	8.0		ug/L			04/11/22 14:07	
Chloromethane	ND	8.0		ug/L			04/11/22 14:07	
	65	8.0		ug/L ug/L			04/11/22 14:07	
cis-1,2-Dichloroethene cis-1,3-Dichloropropene	ND	8.0		ug/L ug/L			04/11/22 14:07	
Cyclohexane	ND	8.0		ug/L ug/L			04/11/22 14:07	
Dibromochloromethane	ND ND	8.0		ug/L ug/L			04/11/22 14:07	
Dichlorodifluoromethane	ND ND			_				
Ethylbenzene	ND	8.0		ug/L ug/L			04/11/22 14:07 04/11/22 14:07	
·	ND ND	8.0					04/11/22 14:07	
sopropylbenzene				ug/L				
Methyl acetate	ND	20		ug/L			04/11/22 14:07	
Methyl tert-butyl ether	ND	8.0		ug/L			04/11/22 14:07	
Methylcyclohexane	ND	8.0		ug/L			04/11/22 14:07	
Methylene Chloride	ND	8.0		ug/L			04/11/22 14:07	
Styrene	ND	8.0		ug/L			04/11/22 14:07	
Tetrachloroethene	ND	8.0		ug/L			04/11/22 14:07	
Toluene	13	8.0		ug/L			04/11/22 14:07	
rans-1,2-Dichloroethene	ND	8.0		ug/L			04/11/22 14:07	
rans-1,3-Dichloropropene	ND	8.0		ug/L			04/11/22 14:07	
Trichloroethene	ND	8.0		ug/L			04/11/22 14:07	
Trichlorofluoromethane	ND	8.0		ug/L			04/11/22 14:07	
Vinyl chloride	520	8.0		ug/L			04/11/22 14:07	
Xylenes, Total	ND	16	5.3	ug/L			04/11/22 14:07	

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Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-8R Lab Sample ID: 480-196481-2

Matrix: Water

Date Collected: 04/06/22 12:00 Date Received: 04/07/22 16:15

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					04/11/22 14:07	8
4-Bromofluorobenzene (Surr)	104		73 - 120					04/11/22 14:07	8
Toluene-d8 (Surr)	101		80 - 120					04/11/22 14:07	8
Dibromofluoromethane (Surr)	98		75 - 123					04/11/22 14:07	8
Method: RSK-175 - Dissolv	ed Gases (GC))							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	33000		5000	3800	ug/L			04/11/22 11:27	1
Ethane	600	J	1700	330	ug/L			04/07/22 16:14	220
Ethene	1300	J	1500	330	ug/L			04/07/22 16:14	220
Methane	19000		880	220	ug/L			04/07/22 16:14	220
Method: 200.7 Rev 4.4 - Me	tals (ICP)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	12.1		0.050	0.019	mg/L		04/11/22 09:18	04/12/22 17:48	1
Method: 200.7 Rev 4.4 - Me	tals (ICP) - Dis	solved							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.3		0.050	0.019	mg/L		04/14/22 08:53	04/14/22 19:12	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	29.0		20.0	3.5	mg/L			04/16/22 03:42	10
Alkalinity, Total	430	В	50.0	20.0	mg/L			04/13/22 16:50	5
Nitrate as N	ND		0.050	0.020	mg/L			04/07/22 13:03	1
Nitrite as N	ND		0.050	0.020	mg/L			04/07/22 13:03	1
Total Organic Carbon	28.4		1.0	0.43	mg/L			04/09/22 22:25	1
Ferric Iron	12.0		0.10	0.075	mg/L			04/19/22 13:53	1
Ferrous Iron	0.098	J HF	0.10	0.075	mg/L			04/09/22 16:10	1
Sulfide	ND		1.0	0.67	mg/L			04/11/22 13:50	1

4/25/2022

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-16D

Lab Sample ID: 480-196481-3 Date Collected: 04/06/22 14:50

Matrix: Water

Date Received: 04/07/22 16:15

Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			04/08/22 18:56	
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			04/08/22 18:56	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			04/08/22 18:56	
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			04/08/22 18:56	
1,1-Dichloroethane	1.3	J	2.0	0.76	ug/L			04/08/22 18:56	
1,1-Dichloroethene	ND		2.0	0.58	ug/L			04/08/22 18:56	
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			04/08/22 18:56	
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			04/08/22 18:56	
1,2-Dibromoethane	ND		2.0	1.5	ug/L			04/08/22 18:56	
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			04/08/22 18:56	
1,2-Dichloroethane	ND		2.0	0.42	ug/L			04/08/22 18:56	
1,2-Dichloropropane	ND		2.0	1.4	ug/L			04/08/22 18:56	
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			04/08/22 18:56	
1,4-Dichlorobenzene	ND		2.0		ug/L			04/08/22 18:56	
2-Butanone (MEK)	ND		20		ug/L			04/08/22 18:56	
2-Hexanone	ND	*+	10	2.5	ug/L			04/08/22 18:56	
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			04/08/22 18:56	
Acetone	ND		20	6.0	ug/L			04/08/22 18:56	
Benzene	ND		2.0	0.82	ug/L			04/08/22 18:56	
Bromodichloromethane	ND		2.0	0.78	_			04/08/22 18:56	
Bromoform	ND		2.0	0.52	ug/L			04/08/22 18:56	
Bromomethane	ND		2.0		ug/L			04/08/22 18:56	
Carbon disulfide	ND		2.0	0.38				04/08/22 18:56	
Carbon tetrachloride	ND		2.0	0.54	ug/L			04/08/22 18:56	
Chlorobenzene	ND		2.0	1.5	ug/L			04/08/22 18:56	
Chloroethane	89		2.0	0.64	ug/L			04/08/22 18:56	
Chloroform	ND		2.0	0.68	ug/L			04/08/22 18:56	
Chloromethane	ND		2.0	0.70	ug/L			04/08/22 18:56	
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			04/08/22 18:56	
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			04/08/22 18:56	
Cyclohexane	ND		2.0	0.36	ug/L			04/08/22 18:56	
Dibromochloromethane	ND		2.0	0.64	ug/L			04/08/22 18:56	
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			04/08/22 18:56	
Ethylbenzene	ND		2.0	1.5	ug/L			04/08/22 18:56	
sopropylbenzene	ND		2.0	1.6	ug/L			04/08/22 18:56	
Methyl acetate	ND		5.0	2.6	ug/L			04/08/22 18:56	
Methyl tert-butyl ether	ND		2.0		ug/L			04/08/22 18:56	
Methylcyclohexane	ND		2.0		ug/L			04/08/22 18:56	
Methylene Chloride	ND		2.0	0.88	ug/L			04/08/22 18:56	
Styrene	ND		2.0	1.5	ug/L			04/08/22 18:56	
Tetrachloroethene	ND		2.0		ug/L			04/08/22 18:56	
Toluene	ND		2.0		ug/L			04/08/22 18:56	
rans-1,2-Dichloroethene	ND		2.0		ug/L			04/08/22 18:56	
rans-1,3-Dichloropropene	ND		2.0		ug/L			04/08/22 18:56	
Trichloroethene	ND		2.0	0.92	_			04/08/22 18:56	
Trichlorofluoromethane	ND		2.0		ug/L			04/08/22 18:56	
Vinyl chloride	24		2.0		ug/L			04/08/22 18:56	
Xylenes, Total	ND		4.0		ug/L			04/08/22 18:56	

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-16D

Lab Sample ID: 480-196481-3 Date Collected: 04/06/22 14:50

Matrix: Water

Date Received: 04/07/22 16:15

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120					04/08/22 18:56	2
4-Bromofluorobenzene (Surr)	97		73 - 120					04/08/22 18:56	2
Toluene-d8 (Surr)	97		80 - 120					04/08/22 18:56	2
Dibromofluoromethane (Surr)	90		75 - 123					04/08/22 18:56	2
Method: RSK-175 - Dissolve	ed Gases (GC))							
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	39000		5000	3800	ug/L			04/11/22 11:36	1
Ethane	660	J	830	170	ug/L			04/07/22 16:33	110
Ethene	1300		770	170	ug/L			04/07/22 16:33	110
Methane	21000		440	110	ug/L			04/07/22 16:33	110
Method: 200.7 Rev 4.4 - Met	tals (ICP)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ron	5.2		0.050	0.019	mg/L		04/11/22 09:18	04/12/22 17:51	1
Method: 200.7 Rev 4.4 - Met	tals (ICP) - Dis	solved							
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ron	0.24		0.050	0.019	mg/L		04/14/22 08:53	04/14/22 19:15	

General Chemistry								
Analyte	Result Q	Qualifier R	L MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND ND	20.	0 3.5	mg/L			04/19/22 01:40	10
Alkalinity, Total	433	50.	0 20.0	mg/L			04/15/22 01:11	5
Nitrate as N	ND	0.05	0.020	mg/L			04/07/22 13:07	1
Nitrite as N	ND	0.05	0.020	mg/L			04/07/22 13:07	1
Total Organic Carbon	5.3	1.	0.43	mg/L			04/09/22 22:54	1
Ferric Iron	5.0	0.1	0.075	mg/L			04/19/22 13:53	1
Ferrous Iron	0.18 H	IF 0.1	0.075	mg/L			04/09/22 16:10	1
Sulfide	ND	1.	0 0.67	mg/L			04/11/22 13:50	1

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-16S

Lab Sample ID: 480-196549-1 Date Collected: 04/07/22 06:30

Matrix: Water

Date Received: 04/07/22 18:05

Analyte	Result C	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		2000	1600	ug/L			04/16/22 11:26	200
1,1,2,2-Tetrachloroethane	ND		2000	420	ug/L			04/16/22 11:26	200
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2000	620	ug/L			04/16/22 11:26	200
1,1,2-Trichloroethane	ND		2000	460	ug/L			04/16/22 11:26	200
1,1-Dichloroethane	ND		2000	760	ug/L			04/16/22 11:26	200
1,1-Dichloroethene	ND		2000	580	ug/L			04/16/22 11:26	200
1,2,4-Trichlorobenzene	ND		2000	820	ug/L			04/16/22 11:26	200
1,2-Dibromo-3-Chloropropane	ND *-	+	2000	780	ug/L			04/16/22 11:26	200
1,2-Dibromoethane	ND		2000	1500	ug/L			04/16/22 11:26	200
I,2-Dichlorobenzene	ND		2000	1600	ug/L			04/16/22 11:26	200
1,2-Dichloroethane	ND		2000		ug/L			04/16/22 11:26	200
,2-Dichloropropane	ND		2000	1400	-			04/16/22 11:26	200
1,3-Dichlorobenzene	ND		2000	1600				04/16/22 11:26	200
I,4-Dichlorobenzene	ND		2000	1700	-			04/16/22 11:26	200
P-Butanone (MEK)	ND	2	20000	2600	-			04/16/22 11:26	200
2-Hexanone	ND *-		10000	2500				04/16/22 11:26	200
-Methyl-2-pentanone (MIBK)	ND		10000	4200	-			04/16/22 11:26	200
Acetone	ND		20000	6000	-			04/16/22 11:26	200
Benzene	ND	.	2000		ug/L			04/16/22 11:26	200
Bromodichloromethane	ND *·	+	2000		ug/L			04/16/22 11:26	200
Bromoform	ND *·		2000		ug/L			04/16/22 11:26	20
Bromomethane	ND		2000	1400				04/16/22 11:26	200
Carbon disulfide	ND		2000		ug/L ug/L			04/16/22 11:26	200
Carbon tetrachloride	ND ND		2000		ug/L ug/L			04/16/22 11:26	200
Chlorobenzene	ND		2000					04/16/22 11:26	200
				1500	-				
Chloroethane	ND		2000		ug/L			04/16/22 11:26	200
Chloroform	ND		2000		ug/L			04/16/22 11:26	200
Chloromethane	ND		2000		ug/L			04/16/22 11:26	200
cis-1,2-Dichloroethene	86000		2000	1600	-			04/16/22 11:26	200
sis-1,3-Dichloropropene	ND		2000		ug/L			04/16/22 11:26	200
Cyclohexane	ND		2000		ug/L			04/16/22 11:26	200
Dibromochloromethane	ND *-	+	2000		ug/L			04/16/22 11:26	20
Dichlorodifluoromethane	ND		2000	1400				04/16/22 11:26	200
Ethylbenzene	ND		2000	1500	-			04/16/22 11:26	200
sopropylbenzene	ND		2000	1600	•			04/16/22 11:26	20
flethyl acetate	ND		5000	2600				04/16/22 11:26	20
Nethyl tert-butyl ether	ND		2000		ug/L			04/16/22 11:26	20
/lethylcyclohexane	ND		2000	320	ug/L			04/16/22 11:26	20
Nethylene Chloride	ND		2000	880	ug/L			04/16/22 11:26	20
Styrene	ND		2000	1500	ug/L			04/16/22 11:26	200
etrachloroethene	ND		2000	720	ug/L			04/16/22 11:26	20
oluene	ND		2000	1000	ug/L			04/16/22 11:26	20
ans-1,2-Dichloroethene	ND		2000	1800				04/16/22 11:26	20
rans-1,3-Dichloropropene	ND		2000		ug/L			04/16/22 11:26	20
richloroethene	ND		2000		ug/L			04/16/22 11:26	20
richlorofluoromethane	ND		2000		ug/L			04/16/22 11:26	20
/inyl chloride	76000		2000	1800	-			04/16/22 11:26	200
Kylenes, Total	ND		4000	1300	-			04/16/22 11:26	20

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-16S Lab Sample ID: 480-196549-1 Date Collected: 04/07/22 06:30

Matrix: Water

Date Received: 04/07/22 18:05

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		Qualifier	77 - 120				гтератец	04/16/22 11:26	2000
4-Bromofluorobenzene (Surr)	104		73 - 120					04/16/22 11:26	2000
Toluene-d8 (Surr)	102		80 ₋ 120					04/16/22 11:26	2000
Dibromofluoromethane (Surr)	111		75 - 123					04/16/22 11:26	2000
Method: RSK-175 - Dissolve	ed Gases (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	130000		5000	3800	ug/L			04/11/22 11:45	1
Ethane	560	J	830	170	ug/L			04/11/22 22:50	110
Methane	14000		440	110	ug/L			04/11/22 22:50	110
Method: RSK-175 - Dissolve	ed Gases (GC)) - DL							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	59000		3100	660	ug/L			04/12/22 15:19	440
Method: 200.7 Rev 4.4 - Method	tals (ICP)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	33.0		0.050	0.019	mg/L		04/11/22 09:18	04/12/22 18:24	1
Method: 200.7 Rev 4.4 - Method	tals (ICP) - Dis	solved							
Method: 200.7 Rev 4.4 - Met Analyte		solved Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte				MDL 0.019		<u>D</u>	Prepared 04/14/22 08:53	Analyzed 04/14/22 18:39	Dil Fac
Analyte Iron	Result					<u>D</u>	<u> </u>		
Analyte Iron General Chemistry	Result 9.0				mg/L	<u>D</u>	<u> </u>		
Analyte Iron General Chemistry Analyte	Result 9.0	Qualifier	0.050	0.019 MDL	mg/L		04/14/22 08:53	04/14/22 18:39	1
	Result 9.0	Qualifier Qualifier J	0.050	0.019 MDL 3.5	mg/L Unit		04/14/22 08:53	04/14/22 18:39 Analyzed	1 Dil Fac
Analyte Iron General Chemistry Analyte Sulfate	Result 9.0 Result 19.5	Qualifier Qualifier J	0.050 RL 20.0	0.019 MDL 3.5	mg/L Unit mg/L mg/L		04/14/22 08:53	04/14/22 18:39 Analyzed 04/18/22 18:55	Dil Fac
Analyte Iron General Chemistry Analyte Sulfate Alkalinity, Total	Result 9.0 Result 19.5 548	Qualifier Qualifier J	0.050 RL 20.0 60.0	0.019 MDL 3.5 24.0 0.020	mg/L mg/L mg/L mg/L		04/14/22 08:53	04/14/22 18:39 Analyzed 04/18/22 18:55 04/13/22 18:14	10 6
Analyte Iron General Chemistry Analyte Sulfate Alkalinity, Total Nitrate as N	Result 9.0 Result 19.5 548 ND	Qualifier Qualifier J	0.050 RL 20.0 60.0 0.050	0.019 MDL 3.5 24.0 0.020 0.020	mg/L mg/L mg/L mg/L		04/14/22 08:53	04/14/22 18:39 Analyzed 04/18/22 18:55 04/13/22 18:14 04/08/22 13:40	10 6 11
Analyte Iron General Chemistry Analyte Sulfate Alkalinity, Total Nitrate as N Nitrite as N Total Organic Carbon	Result 9.0 Result 19.5 548 ND ND	Qualifier Qualifier J	0.050 RL 20.0 60.0 0.050 0.050	0.019 MDL 3.5 24.0 0.020 0.020	mg/L mg/L mg/L mg/L mg/L mg/L		04/14/22 08:53	Analyzed 04/18/22 18:39 Analyzed 04/18/22 18:55 04/13/22 18:14 04/08/22 13:40 04/08/22 13:40	10 6 11
Analyte Iron General Chemistry Analyte Sulfate Alkalinity, Total Nitrate as N Nitrite as N	Result 9.0 Result 19.5 548 ND ND 213	Qualifier Qualifier J B	0.050 RL 20.0 60.0 0.050 0.050 5.0	0.019 MDL 3.5 24.0 0.020 0.020 2.2	mg/L mg/L mg/L mg/L mg/L mg/L mg/L		04/14/22 08:53	Analyzed 04/18/22 18:39 Analyzed 04/18/22 18:55 04/13/22 18:14 04/08/22 13:40 04/08/22 13:40 04/22/22 15:21	10 6 11 1

Lab Chronicle

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-13S

Date Collected: 04/05/22 14:40 Date Received: 04/05/22 17:35

Lab Sample ID: 480-196417-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			620665	04/06/22 23:42	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	178555	04/08/22 08:39	A1H	TAL BUR
Total/NA	Analysis	RSK-175		110	620663	04/06/22 14:48	DSC	TAL BUF
Dissolved	Filtration	FILTRATION			621212	04/11/22 11:07	NBS	TAL BUF
Dissolved	Prep	200.7			621232	04/11/22 14:15	NBS	TAL BUF
Dissolved	Analysis	200.7 Rev 4.4		1	621688	04/13/22 22:02	LMH	TAL BUF
Total/NA	Prep	200.7			620658	04/07/22 09:28	NBS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	620960	04/07/22 17:13	LMH	TAL BUF
Total/NA	Analysis	300.0		5	620975	04/08/22 14:45	JMM	TAL BUF
Total/NA	Analysis	310.2		6	620722	04/06/22 17:42	RDA	TAL BUF
Total/NA	Analysis	353.2		1	620685	04/06/22 11:38	CLT	TAL BUF
Total/NA	Analysis	353.2		1	620691	04/06/22 11:38	CLT	TAL BUF
Total/NA	Analysis	9060A		1	621204	04/08/22 19:36	KER	TAL BUF
Total/NA	Analysis	SM 3500		1	621850	04/14/22 20:23	JJP	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	621109	04/09/22 16:10	CSS	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	620690	04/06/22 15:50	JGO	TAL BUF

Client Sample ID: MW-11 Lab Sample ID: 480-196417-2 Date Collected: 04/05/22 09:45 **Matrix: Water**

Date Received: 04/05/22 17:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			620665	04/07/22 00:05	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	178555	04/08/22 08:48	A1H	TAL BUR
Total/NA	Analysis	RSK-175		22	620663	04/06/22 15:06	DSC	TAL BUF
Dissolved	Filtration	FILTRATION			621212	04/11/22 11:07	NBS	TAL BUF
Dissolved	Prep	200.7			621232	04/11/22 14:15	NBS	TAL BUF
Dissolved	Analysis	200.7 Rev 4.4		1	621688	04/13/22 22:20	LMH	TAL BUF
Total/NA	Prep	200.7			620658	04/07/22 09:28	NBS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	620960	04/07/22 17:16	LMH	TAL BUF
Total/NA	Analysis	300.0		10	620975	04/08/22 15:04	JMM	TAL BUF
Total/NA	Analysis	310.2		5	620722	04/06/22 18:11	RDA	TAL BUF
Total/NA	Analysis	353.2		1	620685	04/06/22 11:45	CLT	TAL BUF
Total/NA	Analysis	353.2		1	620691	04/06/22 11:45	CLT	TAL BUF
Total/NA	Analysis	9060A		1	621204	04/08/22 20:03	KER	TAL BUF
Total/NA	Analysis	SM 3500		1	621850	04/14/22 20:23	JJP	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	621109	04/09/22 16:10	CSS	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	620690	04/06/22 15:50	JGO	TAL BUF

Client: AECOM

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-2

Date Collected: 04/04/22 09:50 Date Received: 04/05/22 17:35

Lab Sample ID: 480-196420-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			620665	04/07/22 00:27	CRL	TAL BUF
Total/NA	Analysis	9060A		1	621204	04/08/22 20:31	KER	TAL BUF

Lab Sample ID: 480-196420-2 **Client Sample ID: MW-3**

Date Collected: 04/04/22 11:35

Matrix: Water

Date Received: 04/05/22 17:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	620665	04/07/22 00:50	CRL	TAL BUF
Total/NA	Analysis	9060A		1	621204	04/08/22 20:58	KER	TAL BUF

Client Sample ID: MW-13D Lab Sample ID: 480-196420-3

Date Collected: 04/05/22 16:05

Matrix: Water

Date Received: 04/05/22 17:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	620665	04/07/22 01:13	CRL	TAL BUF
Total/NA	Analysis	9060A		1	621204	04/08/22 23:45	KER	TAL BUF

Client Sample ID: Duplicate Lab Sample ID: 480-196420-4 Date Collected: 04/05/22 00:00

Matrix: Water

Date Received: 04/05/22 17:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	620665	04/07/22 01:36	CRL	TAL BUF

Client Sample ID: MW-9 Lab Sample ID: 480-196420-5

Date Collected: 04/04/22 13:15

Matrix: Water

Date Received: 04/05/22 17:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	620665	04/07/22 01:59	CRL	TAL BUF
Total/NA	Analysis	9060A		1	621204	04/09/22 00:40	KER	TAL BUF

Lab Sample ID: 480-196420-6 Client Sample ID: MW-14S

Date Collected: 04/04/22 15:10

Matrix: Water

Date Received: 04/05/22 17:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	620665	04/07/22 02:22	CRL	TAL BUF
Total/NA	Analysis	9060A		1	621204	04/09/22 01:08	KER	TAL BUF

Client: AECOM Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-14D

Date Collected: 04/04/22 16:20 Date Received: 04/05/22 17:35

Lab Sample ID: 480-196420-7

Matrix: Water

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Analysis	8260C		1	620665	04/07/22 02:45	CRL	TAL BUF
L	Total/NA	Analysis	9060A		1	621204	04/09/22 01:35	KER	TAL BUF

Client Sample ID: MW-15S

Date Collected: 04/05/22 11:40 Date Received: 04/05/22 17:35 Lab Sample ID: 480-196420-8

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	620665	04/07/22 03:08	CRL	TAL BUF
Total/NA	Analysis	9060A		5	621711	04/12/22 23:48	KER	TAL BUF

Client Sample ID: MW-15D

Date Collected: 04/05/22 12:45

Date Received: 04/05/22 17:35

Lab Sample ID: 480-196420-9

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	620665	04/07/22 03:30	CRL	TAL BUF
Total/NA	Analysis	9060A		1	621204	04/09/22 02:32	KER	TAL BUF

Client Sample ID: Trip Blank

Date Collected: 04/04/22 00:00

Date Received: 04/05/22 17:35

Lab Sample ID: 480-196420-10

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	620665	04/07/22 03:53	CRL	TAL BUF

Client Sample ID: DPE-1

Date Collected: 04/06/22 06:30

Date Received: 04/06/22 16:15

Lab Sample ID: 480-196479-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8	620879	04/08/22 02:38	CRL	TAL BUF
Total/NA	Analysis	9060A		20	621711	04/13/22 03:37	KER	TAL BUF

Client Sample ID: DPE-2

Date Collected: 04/06/22 06:45

Date Received: 04/06/22 16:15

Lab Sample ID: 480-196479-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	620879	04/08/22 03:01	CRL	TAL BUF
Total/NA	Analysis	9060A		1	621202	04/09/22 10:09	KER	TAL BUF

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-3

Date Collected: 04/06/22 07:00 Date Received: 04/06/22 16:15 Lab Sample ID: 480-196479-3

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	620879	04/08/22 03:24	CRL	TAL BUF
Total/NA	Analysis	9060A		5	621711	04/13/22 04:05	KER	TAL BUF

Client Sample ID: DPE-4

Date Collected: 04/06/22 07:15 Date Received: 04/06/22 16:15

Lab Sample ID: 480-196479-4

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	620879	04/08/22 03:47	CRL	TAL BUF
Total/NA	Analysis	9060A		1	621202	04/09/22 11:07	KER	TAL BUF

Client Sample ID: DPE-5

Date Collected: 04/06/22 07:45

Date Received: 04/06/22 16:15

Lab Sample ID: 480-196479-5

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	620879	04/08/22 04:09	CRL	TAL BUF
Total/NA	Analysis	9060A		10	621202	04/09/22 11:37	KER	TAL BUF

Client Sample ID: DPE-6

Date Collected: 04/06/22 08:00

Date Received: 04/06/22 16:15

Lab Sample ID: 480-196479-6

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	620879	04/08/22 04:32	CRL	TAL BUF
Total/NA	Analysis	9060A		1	621202	04/09/22 12:07	KER	TAL BUF

Client Sample ID: DPE-7

Date Collected: 04/06/22 08:15

Date Received: 04/06/22 16:15

Lab Sample	ID: 480-196479-7
	Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	620879	04/08/22 04:55	CRL	TAL BUF
Total/NA	Analysis	9060A		1	621202	04/09/22 15:02	KER	TAL BUF

Client Sample ID: DPE-8

Date Collected: 04/06/22 08:33

Date Received: 04/06/22 16:15

Lab Sampi	e ID: 480	-1964/9-8
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Matrix: Water

100 100 100 0

l		Batch	Batch		Dilution	Batch	Prepared		
l	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
l	Total/NA	Analysis	8260C		100	620879	04/08/22 05:18	CRL	TAL BUF
l	Total/NA	Analysis	9060A		1	621202	04/09/22 16:00	KER	TAL BUF

Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Project/Site. Scott Figgle West of Flant 2

Client Sample ID: GWCT

Client: AECOM

Date Collected: 04/06/22 09:00 Date Received: 04/06/22 16:15 Lab Sample ID: 480-196479-9

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	620879	04/08/22 05:41	CRL	TAL BUF
Total/NA	Analysis	9060A		1	621202	04/09/22 16:30	KER	TAL BUF

Client Sample ID: Rinse Blank

Date Collected: 04/06/22 06:30 Date Received: 04/06/22 16:15 Lab Sample ID: 480-196479-10

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	620879	04/08/22 06:04	CRL	TAL BUF

Client Sample ID: MW-4

Date Collected: 04/06/22 09:45

Date Received: 04/07/22 16:15

Lab Sample ID: 480-196481-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	621199	04/11/22 13:44	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	178626	04/11/22 11:19	A1H	TAL BUR
Total/NA	Analysis	RSK-175		88	620845	04/07/22 15:55	DSC	TAL BUF
Dissolved	Filtration	FILTRATION			621531	04/13/22 11:00	VAK	TAL BUF
Dissolved	Prep	200.7			621538	04/14/22 08:53	VAK	TAL BUF
Dissolved	Analysis	200.7 Rev 4.4		1	621901	04/14/22 18:43	LMH	TAL BUF
Total/NA	Prep	200.7			621066	04/11/22 09:18	NBS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	621522	04/12/22 17:44	LMH	TAL BUF
Total/NA	Analysis	300.0		10	621843	04/16/22 03:23	JMM	TAL BUF
Total/NA	Analysis	310.2		5	621863	04/15/22 00:35	RDA	TAL BUF
Total/NA	Analysis	353.2		1	620826	04/07/22 13:02	CLT	TAL BUF
Total/NA	Analysis	353.2		1	620827	04/07/22 13:02	CLT	TAL BUF
Total/NA	Analysis	9060A		1	621202	04/09/22 21:55	KER	TAL BUF
Total/NA	Analysis	SM 3500		1	622287	04/19/22 13:53	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	621109	04/09/22 16:10	CSS	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	621276	04/11/22 13:50	JGO	TAL BUF

Client Sample ID: MW-8R Date Collected: 04/06/22 12:00 Date Received: 04/07/22 16:15 Lab Sample ID: 480-196481-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			621199	04/11/22 14:07	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	178626	04/11/22 11:27	A1H	TAL BUR
Total/NA	Analysis	RSK-175		220	620845	04/07/22 16:14	DSC	TAL BUF
Dissolved	Filtration	FILTRATION			621531	04/13/22 11:02	VAK	TAL BUF
Dissolved	Prep	200.7			621538	04/14/22 08:53	VAK	TAL BUF
Dissolved	Analysis	200.7 Rev 4.4		1	621901	04/14/22 19:12	LMH	TAL BUF

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Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-8R

Client: AECOM

Date Collected: 04/06/22 12:00 Date Received: 04/07/22 16:15 Lab Sample ID: 480-196481-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			621066	04/11/22 09:18	NBS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	621522	04/12/22 17:48	LMH	TAL BUF
Total/NA	Analysis	300.0		10	621843	04/16/22 03:42	JMM	TAL BUF
Total/NA	Analysis	310.2		5	621662	04/13/22 16:50	RDA	TAL BUF
Total/NA	Analysis	353.2		1	620826	04/07/22 13:03	CLT	TAL BUF
Total/NA	Analysis	353.2		1	620827	04/07/22 13:03	CLT	TAL BUF
Total/NA	Analysis	9060A		1	621202	04/09/22 22:25	KER	TAL BUF
Total/NA	Analysis	SM 3500		1	622287	04/19/22 13:53	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	621109	04/09/22 16:10	CSS	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	621276	04/11/22 13:50	JGO	TAL BUF

Client Sample ID: MW-16D Lab Sample ID: 480-196481-3 Date Collected: 04/06/22 14:50 **Matrix: Water**

Date Received: 04/07/22 16:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			620950	04/08/22 18:56	OMI	TAL BUF
Total/NA	Analysis	RSK-175		1	178626	04/11/22 11:36	A1H	TAL BUF
Total/NA	Analysis	RSK-175		110	620845	04/07/22 16:33	DSC	TAL BUF
Dissolved	Filtration	FILTRATION			621531	04/13/22 11:06	VAK	TAL BUF
Dissolved	Prep	200.7			621538	04/14/22 08:53	VAK	TAL BUF
Dissolved	Analysis	200.7 Rev 4.4		1	621901	04/14/22 19:15	LMH	TAL BUF
Total/NA	Prep	200.7			621066	04/11/22 09:18	NBS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	621522	04/12/22 17:51	LMH	TAL BUF
Total/NA	Analysis	300.0		10	622109	04/19/22 01:40	IMZ	TAL BUF
Total/NA	Analysis	310.2		5	621863	04/15/22 01:11	RDA	TAL BUF
Total/NA	Analysis	353.2		1	620826	04/07/22 13:07	CLT	TAL BUF
Total/NA	Analysis	353.2		1	620827	04/07/22 13:07	CLT	TAL BUF
Total/NA	Analysis	9060A		1	621202	04/09/22 22:54	KER	TAL BUF
Total/NA	Analysis	SM 3500		1	622287	04/19/22 13:53	LMH	TAL BUI
Total/NA	Analysis	SM 3500 FE D		1	621109	04/09/22 16:10	CSS	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	621276	04/11/22 13:50	JGO	TAL BUI

Client Sample ID: MW-16S Lab Sample ID: 480-196549-1 Date Collected: 04/07/22 06:30 **Matrix: Water**

Date Received: 04/07/22 18:05

Batch Batch Dilution Batch Prepared **Prep Type** Method Number or Analyzed Type Run **Factor** Analyst Lab Total/NA 8260C 2000 622005 04/16/22 11:26 OMI TAL BUF Analysis Total/NA RSK-175 TAL BUR Analysis 1 178626 04/11/22 11:45 A1H Total/NA 621293 04/11/22 22:50 DSC TAL BUF Analysis **RSK-175** 110 Total/NA 621409 04/12/22 15:19 DSC TAL BUF Analysis **RSK-175** DL 440

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Lab Chronicle

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-16S

Date Received: 04/07/22 18:05

Lab Sample ID: 480-196549-1 Date Collected: 04/07/22 06:30

Matrix: Water

Batch Dilution **Batch** Batch **Prepared** Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst Lab Dissolved **FILTRATION** 621531 04/13/22 11:00 TAL BUF Filtration VAK 200.7 621538 04/14/22 08:53 VAK Dissolved Prep TAL BUF Dissolved Analysis 200.7 Rev 4.4 1 621901 04/14/22 18:39 LMH TAL BUF Total/NA Prep 200.7 621066 04/11/22 09:18 NBS TAL BUF Total/NA Analysis 200.7 Rev 4.4 1 621522 04/12/22 18:24 LMH TAL BUF Total/NA Analysis 300.0 10 622113 04/18/22 18:55 IMZ TAL BUF Total/NA 310.2 6 621662 04/13/22 18:14 RDA TAL BUF Analysis Total/NA 353.2 1 621043 04/08/22 13:40 JJK TAL BUF Analysis Total/NA Analysis 353.2 1 621052 04/08/22 13:40 CSS TAL BUF Total/NA Analysis 9060A 5 621712 04/22/22 15:21 KER TAL BUF Total/NA Analysis SM 3500 622287 04/19/22 13:56 LMH TAL BUF 1 Total/NA Analysis SM 3500 FE D 1 621109 04/09/22 16:10 CSS TAL BUF Total/NA Analysis SM 4500 S2 F 621276 04/11/22 13:50 JGO TAL BUF 1

Laboratory References:

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

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

Accreditation/Certification Summary

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Laboratory: Eurofins Buffalo

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

Authority	Pro	ogram	Identification Number	Expiration Date
New York	NE	ELAP	10026	03-31-23
The following analyte	s are included in this reno	ort but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
the agency does not	•	it, but the laboratory is i	not certified by the governing authority.	This list may include analytes for which
0 ,	•	Matrix	Analyte	This list may include analytes for which
the agency does not	offer certification.	•	, , ,	This ist may include analytes for which

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21 *
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-22
Florida	NELAP	E87467	06-30-22
Minnesota	NELAP	050-999-436	12-31-22
New Hampshire	NELAP	2006	12-18-22
New Jersey	NELAP	VT972	06-30-22
New York	NELAP	10391	04-01-23
Pennsylvania	NELAP	68-00489	04-30-23
Rhode Island	State	LAO00298	12-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-23
Virginia	NELAP	460209	12-14-22
Wisconsin	State	399133350	08-31-22

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^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUR
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 3500	Iron, Ferric	SM	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
SM 4500 S2 F	Sulfide, Total	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
FILTRATION	Sample Filtration	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

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

Sample Summary

Client: AECOM Job ID: 480-196417-1

Project/Site: Scott Figgie West of Plant 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-196417-1	MW-13S	Water	04/05/22 14:40	04/05/22 17:35
480-196417-2	MW-11	Water	04/05/22 09:45	04/05/22 17:35
480-196420-1	MW-2	Water	04/04/22 09:50	04/05/22 17:35
480-196420-2	MW-3	Water	04/04/22 11:35	04/05/22 17:35
480-196420-3	MW-13D	Water	04/05/22 16:05	04/05/22 17:35
480-196420-4	Duplicate	Water	04/05/22 00:00	04/05/22 17:35
480-196420-5	MW-9	Water	04/04/22 13:15	04/05/22 17:35
480-196420-6	MW-14S	Water	04/04/22 15:10	04/05/22 17:35
480-196420-7	MW-14D	Water	04/04/22 16:20	04/05/22 17:35
480-196420-8	MW-15S	Water	04/05/22 11:40	04/05/22 17:35
480-196420-9	MW-15D	Water	04/05/22 12:45	04/05/22 17:35
480-196420-10	Trip Blank	Water	04/04/22 00:00	04/05/22 17:35
480-196479-1	DPE-1	Water	04/06/22 06:30	04/06/22 16:15
480-196479-2	DPE-2	Water	04/06/22 06:45	04/06/22 16:15
480-196479-3	DPE-3	Water	04/06/22 07:00	04/06/22 16:15
480-196479-4	DPE-4	Water	04/06/22 07:15	04/06/22 16:15
480-196479-5	DPE-5	Water	04/06/22 07:45	04/06/22 16:15
480-196479-6	DPE-6	Water	04/06/22 08:00	04/06/22 16:15
480-196479-7	DPE-7	Water	04/06/22 08:15	04/06/22 16:15
480-196479-8	DPE-8	Water	04/06/22 08:33	04/06/22 16:15
480-196479-9	GWCT	Water	04/06/22 09:00	04/06/22 16:15
480-196479-10	Rinse Blank	Water	04/06/22 06:30	04/06/22 16:15
480-196481-1	MW-4	Water	04/06/22 09:45	04/07/22 16:15
480-196481-2	MW-8R	Water	04/06/22 12:00	04/07/22 16:15
480-196481-3	MW-16D	Water	04/06/22 14:50	04/07/22 16:15
480-196549-1	MW-16S	Water	04/07/22 06:30	04/07/22 18:05

Job Number: 480-196417-1

Login Number: 196417 List Source: Eurofins Buffalo

List Number: 1

Client: AECOM

Creator: Yeager, Brian A

ordator. rougor, Brian A		
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	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

List Source: Eurofins Burlington
List Number: 2
List Creation: 04/07/22 03:33 PM

Creator: Khudaier, Zahraa

Question		Comment					
Radioactivity wasn't checked or is = background as measured by a survey neter.</td <td>N/A</td> <td>Lab does not accept radioactive samples.</td>	N/A	Lab does not accept radioactive samples.					
he cooler's custody seal, if present, is intact.	True	1784575					
Sample custody seals, if present, are intact.	True						
he cooler or samples do not appear to have been compromised or ampered with.	True						
Samples were received on ice.	True						
Cooler Temperature is acceptable.	True						
Cooler Temperature is recorded.	True	2.5°C					
COC is present.	True						
COC is filled out in ink and legible.	True						
COC is filled out with all pertinent information.	True						
s 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.	N/A						
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						

Login Number: 196420 List Source: Eurofins Buffalo

List Number: 1

Creator: Stopa, Erik S

ordatori Otopa, Erik O		
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	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Number: 196479 List Source: Eurofins Buffalo

List Number: 1

Creator: Stopa, Erik S

Creator. Stopa, Erik S		
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	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Number: 196481 List Source: Eurofins Buffalo

List Number: 1

Creator: Stopa, Erik S

ordatori Otopa, Erik O		
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	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

List Source: Eurofins Burlington
List Number: 2
List Creation: 04/08/22 11:31 AM

Creator: Khudaier, Zahraa

Creator: Knudaler, Zanraa		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td>Lab does not accept radioactive samples.</td>	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1784591
Sample custody seals, if present, are 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	3.0°C
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.	N/A	
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	

Login Number: 196549 List Source: Eurofins Buffalo

List Number: 1

Creator: Yeager, Brian A

Creator. reager, Brian A		
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	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

List Source: Eurofins Burlington
List Number: 2
List Creation: 04/09/22 10:13 AM

Creator: Cunningham, Caroline R

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey neter.</td <td>N/A</td> <td>Lab does not accept radioactive samples</td>	N/A	Lab does not accept radioactive samples
The cooler's custody seal, if present, is intact.	True	1780461
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
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	

10 Hazelwood Drive

Chain of Custody Record

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Environment Testing America

Phone:	7
Client	1

4/25/2022

Amherst, NY 14228-2298 716-691-2600 Fax: 716-691-7991

Client Information	Sampler Lab					Brian J						Carrier Tracking No(s):							COC No: 480-171515-27848.1			
Client Contact:	Phone: E-M					Eurof	linaat					State	of One	of Origin:					Page:			
Mr. Dino Zack Company			PWSID	IBII	an.Fisc	ner@	Euroi	inset	set.com							_	_	_		Page 1 of 1		
AECOM						Analysis R							tequested									
Address: One John James Audubon Parkway Suite 210	Due Date Request	ed:	_		17.17										4.2	7			蛇	Preservation Code		
City Amherst	TAT Requested (days):			_ - - - - -					Ì					oimoy.	Mehil				A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2		
State, Zip NY, 14228	Compliance Proje	ct: A Yes	1 No	-									1		0	-			44	D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3	
Phone	PO#												1		1.5+	Luc.			56	F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4	
mail	141583 W0 #:				or No					٥					7				2	H - Ascorbic Acid I - Ice J - DI Water	T - TSP Dodeca U - Acetone V - MCAA	hydrate
fino.zack@aecom.com Project Name:	60676130 Project #:						gases		ate_Ca		3500_FE_D		9	7	(mos)			5	K - EDTA L - EDA	EDTA W - pH 4-5		
Scott Figgie West of Plant 2 - MNA Gite:	48002539 SSOW#				ald m	C02		ed ga	- sulfide	, Nitr			6	Sulfa	,	Ü				Other:		
New York					d Sa	2_05	_	ssolv	F - Su	Nitrite	À.	S.	D. In	MOD)	7	4.			0 10			-
		Sample	Sample Type (C=comp,	Matrix (w=water, S=solid, O=waste/oil,	Field Filtered Sample (Yes	RSK_175_C02	200.7 - T. Iron	RSK_175 - Dissolved	SM4500_S2_F	353.2, 353.2_Nitrite, Nitrate_Calc	310.2 - alkalinity	3500_Fe+3_D_Cal,	200.7 - (MOD) D. Iron	300.0_28D - (MOD) Sulfate	8560	4060			Total Number			
Sample Identification	Sample Date	Time		T=Tissue, A=Ai) E	7	_	-	_		\rightarrow				~	9	Participal Co	_	빍	Special In:	structions/No	ote:
W. S. Commission of the Commis			Preservat		W	N	D	Α	СВ	N	N	N	N	N	25	E	26.0	+	$\stackrel{\sim}{\rightarrow}$			
WW 4				Water	11													\perp				
MW-8R				Water	Ш																	
WW-13S	415/2	1440	G	Water	6	X	X	X	X	X	X	X	X	V	X	X				molm	SD ON	VOC
√W-103 →				Water																'		ON
₩-18D				Water															8			
MW-11	415/00	0945	G	Water		X	X	X	Χ	X	V	X	X	X	X	X				net select to text		
					П						7									HE ROLL HER COLLEGE	ANTHA BRICKER	1
					\top													Mile.	Ш			
					+														Ш			
					++		-							-			480-1	964	17	Chain of Custo	dy	
					++	+						-	\dashv	\dashv		-						
Possible Hazard Identification					1	ample	Dis	0052	1/4	foo s	nav /	20.25	202	sod i	if sa	mole	s are	rets	ine	d longer than 1	month)	
	oison B Unki	nown	Radiological		٦			n To (sal B						ive For	Months	
Deliverable Requested: I, II, III, IV, Other (specify)	NOON D CHAR	101111	tadiological	-	S	pecial					quire			ou. D	,							
Empty Kit-Relinquished by:		Date:			Time	:	-							Metho	od of S	Shipme	ent:	Ä				
Relinquished by	Date/Time		35	Company	1	Rece	eived I	oy:	1		$\overline{}$					Date/	Time:	F	L	1 M	Compani	0
Relinquished by:	Date/Time:			Company		Received by:									Date/Time:				(//	Company		
Relinquished by:	Date/Time			Company		Rece	eived t	by:								Date/	late/Time: Company					
Custody Seals Intact: Custody Seal No.:						Cool	ler Ter	nperat	ure(s)	°C an	d Othe	er Ren	narks		. ,	1	9	7	E	(ICF		









Eurofins Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Environment Testing America

Client Information	Sampler:				ib PM: ischer	, Bria	an J						Carrier	Tracking	No(s):			COC No: 480-171516-34	50.1	
Client Contact:	Phone:			1-	Mail:		-05			-			State o	f Origin:	-			Page:		
Mr. Dino Zack Company:			PWSID:	81	rian.F	ISCHE	r@t	Euron	nset.	com	-							Page 1 of 3		
AECOM										Ana	lysis	Req	uest	ed						
Address: One John James Audubon Parkway Suite 210	Due Date Requeste	ed:			100.75	1000												Preservation Co	des: M - Hexans	
City: Amherst	TAT Requested (da	ays):															100	B - NaOH C - Zn Acetate	N - None O - AsNaO2	
State, Zip: NY, 14228	Compliance Project	et: A Yes	Δ No		- 2												200	D - Nitric Acid E - NaHSO4 F - MeOH	P - Na2O4S Q - Na2SO3	
Phone:	Po #: Purchase Order	not requir	.		19	16.00 11.00							111111	11 11 11 11 11 11 1	in tens	PO HONO CON	1985	- 4-shipr	R - Na2S2O3 S - H2SO4	
Email:	WO#:	not requi			Or No.														'SP Dodecal	hydrate
dino.zack@aecom.com Project Name:				LLDU-	ğ	3		_	1										CAA H 4-5	
Project Name:	Project #: 48002539				30 C	SO (Yes or No)	2	g											her (specify	y)
Scott Figgle - GW Site:	SSOW#:				၂를		ğ	1 4	- 1			-	480-	19642	Chai	n of C		MH 4411111		
New York			,		3		ᅙ	ا ق				١,					ustou	/		
	Sample Date	Sample Time	Sample Type (C≖comp, G=grab)	Matrix (Wowster, 8=solid, O=weste/oil	PIG File	IST THE	8260C - TCL list OLM04.2	9060A - (MOD) Local Method									Total Numb	Section		
Sample Identification	Sample Date		Preservation		_	A 7		A	(Sister)	100	4 VOC.	1000	Ba i	37 31	150	E3H /10	V	Special I	nstructions/No	te:
MW-2	414120	CA5C		Water		-	X	χ				6.5316				54.0 PE			paster street	
MWA (MNA)	1110	CINC		Water			,										36			
MW-OR-				Water																
MW-3	41412	1135	6	Water			X	X							\Box				. 11	
MW-II (MNA)				Water													L			
MW-135 (MNA)				Water													500			
MW-13D	415/22	1605	6	Water		Ш	X	X									100			
MW-166 (MVA)				Water													Ú.			100
MW-19B- (MNAL				Water																
DPE-1				Water																
DPF-2				Water													142			
Possible Hazard Identification Non-Hazard Flammable Skin Imitant Pois	son B Ulaka	10wa 🗆	Rediological			San		Disp eturn			e may			ed if s				d longer than tive For	1 month) Months	
Deliverable Requested: I, II, III, IV, Other (specify)	SON B CHAN		Radiological			Spe					Requir			ar by L	30		Alvin	V8 1 01	WOINTS	
Empty Kit Relinquished by:		Date:			Tir	me:					-		N	lethod o	Shipme	ent:	-			
Relinquistied by	Date/Time:	172	55 6	ompany			Recei	ived by			/				Date/	ime 5	31	17:3	Company 19	7
Relinquished by:	Date/Time:		C	ompany			Recei	ived by	r:						Date/T	inie:			Company	
Relinquished by:	Date/Tithe:		C	ompany			Recei	ived by	r:						Date/1	ime:			Company	
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No			6				Coole	r Tem	peratur	re(s) °C	and Oth	ner Rer	narks:	-	1	7	H	コヤ	=	









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10 Hazelwood Drive

Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Environment Testing America

Client Information	Sampler:				b PM: scher,	Brian	n J						Carrier	rackin	No(s)	;			DC No: 80-171516-34	50.2		
Client Contact: Mr. Dino Zack	Phone:			E-	Mail: rian.Fis			urofin	net c	om		1	State of	Origin:				Pa	age 2 of 3			
Company:			PWSID:		1011.7 13	CHO	الما الما	ai Oilii					4	4					b#:			
AECOM Address:	Due Date Requeste	nd:			100	e5 * .				Anal	ysis	Keq	Jeste	a			4.7	D.	reservation Co	door		
One John James Audubon Parkway Suite 210	Due Date Request					*											3	100	- HCL	M - Hex	808	
Olty: Amherst	TAT Requested (da	lys):															1	BC	- NaOH - Zn Acetate	N - None O - AsN	eO2	
State, Zip: NY, 14228	Compliance Project	t: A Yes	Δ No		- 2	Har											12	E	- Nitric Acid - NaHSO4	Q - Na2	SO3	
Phone:	PO#: Purchase Order	not requir															100	G	- MeOH - Amchior - Ascorbic Acid	R - Na2: S - H2S: T - TSP		ate
mail: dino.zack@aecom.com	WO#:				s or No	<u>@</u>											8	l.	· Ice - Di Water - EDTA	U - Acet V - MCA	one A	
Project Name: Scott Figgie - GW	Project #: 48002539				Je G	3	27	Method									alia	L	- EDA	W - pH - Z - other	r (specify)	
Site: New York	SSOW#:				Samp	8	OFF	ocal									100		ther:			
Sample identification	Sample Date	Sample Time	Sample Type (C≖comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil BT=Tissue, A=	. Ar)	-	8260C - TCL list OLM04.2	9060A - (MOD) Local	25010	500	NAME OF THE PARTY		-14		- 56	Serve I	Total Number		Special i	nstructic	ons/Note:	2015100
PE 3				Water	1	4	1	+	25	+	+	200				1000		+				
DRE-4				Water	+	+	+	+	+	+			+		+			+				
DPF-5				Water	++	+	1	1	+													
DPE 8				Water	\top		1		7													
PE-7				Water	11																	
DPE-8				Water													康					
EWCT				Water																		
DUPLICATE	41400	amo	G	Water		1	X										1	1				
RINGE BLANK				Water													9					
NW-9	414122	1315	6	Water			X	X									9					
MW-14S	51414	1510	G	Water	- 1 - 4		XI.															
Possible Hazard Identification Non-Hazard Flammable Skin Imitant Deliverable Requested: 1, 11, 111, IV, Other (specify)	Poison B Unkn	own 🗆	Radiologica	ı			Re	turn	To Cli	A fee ent /QC R	- {	Di	sposa	d if s	ampie ab	s are	retair Arc	ned chive	longer than For	1 month) Mon		
						_	70H II	ibtitut	- IOI IO	7401	equi	31110111			. 0							
mpty Kit Relinquished by:	Date/Time;	Date:		Company	Tim		lacah.	éd by:	1				M	inoa o	Shipm				V	IC		
Telinquished by:	4/90	173	55	Company				ed by:	h							Time:	50	1	1175	Compan	147	
	Date/Time:							Ĺ								Time:						
elinquished by:	Date/Time:			Company				ed by:		-					Date	ातास्त्र:				Compan	iy .	
Custody Seals Intact: Custody Seal No.:						C	cooler	Temp	erature	(s) °C a	and Oth	er Rem	arks:									









Ver: 06/08/2021

Amherst, NY 14228-2298

10 Hazelwood Drive

Chain of Custody Record

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Environment Testing America

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Client Information	Sampler:			Fis	PM: scher, B	rian .	1				Carr	ier Trac	king No	(8):		COC No: 480-171516-3	450.3
Client Contact: Mr. Dino Zack	Phone:			E-M Bri	_{fail} : an.Fisc	her@	Eurofir	nset.co	m		State	e of Orig	in:			Page: Page 3 of 3	
Company: AECOM	-		PWSID:					-	Analy	sis R	eque	sted				Job#:	
Address: One John James Audubon Parkway Suite 210	Due Date Request	d:			1										1	Preservation C	
olty: Amherst	TAT Requested (da	iys):														A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2
State, Zip: NY, 14228	Compliance Project	et: A Yes	Δ No	-												D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3
Phone:	PO#: Purchase Order	not requir														F - MeOH G - Amchlor H - Ascorbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate
mail: dino.zack@aecom.com	WO#:				or No.											I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: Scott Figgie - GW	Project #: 48002539				Pie (Ye	7	Method								1	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Bite: New York	SSOW#:				Samp	list OL MOA 2									200		
		Sample	Sample Type (C=comp,	Matrix (w=weter, s=solid, 0=wsste/oil,	Md Filtered	8260C - TCL list	9060A - (MOD) Local								Total Mumbos		
Sample Identification	Sample Date	Time	G=grab) er	=Tlesue, A=A	*) E	4	_	SL3 .57s	C street	-	161 1000	4000	150 T 100		1	Special	Instructions/Note:
/W-14D	414120	1630		Water	T	A	A	100	100	200	51 ET-25		200	G. 4000	-		
/W-15S	415/20	1140	(c)	Water	++	X	X			+	+		+	+	9	6	
/W-15D	41512	1945		Water	$\dagger \dagger$	X	M	+	+	_	+	\Box	+		12		
rip Blank	414193		_	Water	11	13		+	11		+	\Box	+		8		
	11100	0.00							\Box				\top				
					\top	\top	\Box		П						100		
															45		
															13		
															3000		
															200		
Possible Hazard Identification Non-Hazard Flammable Skin Irritant F	Paison B Unkn	own 🗆	Radiological		S		e Dispo Return			nay be	Dispo	ssed i: sai Av	samı Lab	pies an	e retain	ned longer than hive For	1 month) Months
Peliverable Requested: I, II, III, IV, Other (specify)					S		Instru			quiren	nents:						and
mpty Kit Relinquished by		Date:			Time	:			- 5	11		Metho					
elinquished by:	Date/Time:	17	35	mpany			elved by:	1.1	~				_	ite/Time:	4)	1.16	Company
elinquished by:	Date/Time:		Co	mpany			elved by:		- 10	O.F.			Da	ite/Time:			Company
Custody Seals Intact: Custody Seal No.:					-	Coo	ler Temp	erature	s) °C and	Other	Remarki):					
Δ Yes Δ No									, , , , , , ,						Ver: 06/08/2021		









Amherst, NY 14228-2298

10 Hazelwood Drive

Chain of Custody Record

eurofins

Environment Testing America

Phone: 716-691-2600 Fax: 716-691-7991	Sampler:		,	Lab F	ONA			Carrie	r Tracking N	lo(s):		COC No.	
Client Information	Dine	(Loc	E	Fisc	her, Bria	ın J		Carrier	Tracking I	10(3)		480-171516-34	
Client Contact Mr. Dino Zack	Phone: 7/6	866 8	222	E-Ma Bria		r@Eurofi	nset.com	State	of Origin	VY		Page:	Ps lof
Company:		-	PWSID	Dillo	100/10	<u> </u>		aia Danuari				Job #:	7 0 .
AECOM Address:	Due Date Request	ed:			2021	1 1	Analy	sis Request	led	ТТ		Preservation Co	dos.
One John James Audubon Parkway Suite 210	200 2010 1104000										8	A - HCL	M - Hexane
City. Amherst	TAT Requested (d	ays): 57	-0		1							B - NaOH C - Zn Acetate	N = None O = AsNaO2
State, Zip: NY, 14228	Compliance Project	ct: A Yes	Δ No		3 2							D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3
Phone 716-866-8222	PO#: Purchase Orde	r not requir			6						80	F - MeOH G - Amchlor H - Ascorbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Dodecahydra
Email dino.zack@aecom.com	WO #:				N O						90	J - Ice J - DI Water	U - Acetone V - MCAA
Project Name:	Project #:		-		Sample (Yes or ISD (Yes or No	a B					containers	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Scott Figgie - GW Site:	48002539 ssow#:				용호	OLMO4.2					on the	Other:	
New York	00011#					Loca					ŏ		
		Sample	Sample Type (C=comp,	Matrix (Wewater, Sesolid. Oewaste/oil,	Field Filtered Perform/MS/A	8260C - TCL list OLMO4.2 9060A - (MOD) Local Method					Total Number		
Sample Identification	Sample Date	Time	1	BT=Tissue, A=Air	X X X				\perp	\dashv	٤	Special I	nstructions/Note:
			Preserva	tion Code:	XX	AA					X		
NAMA 2.				Water		\rightarrow							
MW				Water									
MALER.				Water					////				
MW-S				Water									
NW-+1				Water								IIII III III III III III III III III I	
MW-13S				Water				480					
M W-13 D				Water	Ш				30479	Chain of C			
MANUES				Water						1	ustod	V (1) (1) (1)	
TOD				Water							1		
DPE-1	4/6/22	0630	G	Water		XX							
DPE-2	4/6/22	0645	G	Water		XX			*				
Possible Hazard Identification					San	ple Disp	osal (A fee i	may be assess	sed if sai	nples are	retain	ed longer than t nive For	month)
Non-Hazard Flammable Skin Irritant	Poison B Unkr	nown	Radiologica	1					al By Lal	,	Arch	nive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)					Spe	ciai instru	uctions/QC Re	<u>'</u>					
Empty Kit Relinquished by:		Date:			Time:	_			Method of S				
Relinquished by		22	1200	ABC	n	Received by	aneca			Date Tiple	122	1615	Company
Relinquished by:	Date/Time:			Company		Received by	y.			Date/Time:			Company
Relinquished by:	Date/Time.			Company		Received by	y.			Date/Time:			Company
Custody Seals Intact: Custody Seal No						Cooler Tem	peratura(s) °C an	d Othor Remade					-

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Δ Yes Δ No

Ver: 06/08/202

Amherst, NY 14228-2298

10 Hazelwood Drive

Chain of Custody Record

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Environment Testing America

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Client Information	Sampler	Zach			b PM: scher,	Brian	J						er Trackir				COC No: 480-171516-34	50.2
Client Contact: Mr. Dino Zack	Samples (n.s.) Phone: 7/6 - 8/6	56-82	22		Mail: ian.Fis	scher(@Eu	rofins	et.cor	n		State	of Origin	NY				age 2 of
Company: AECOM			PWSID:								is Re	ques					Job#	<u>a</u>
address:	Due Date Requeste	ed:			19	10				ΤÍ		-		TI		83	Preservation Co	tes:
One John James Audubon Parkway Suite 210 ity: .mherst	TAT Requested (da	sys): STi	0													STATE OF	A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2
tate, Zip. IY, 14228	Compliance Project					~ 0.											D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3
716-866-822Z	PO #: Purchase Order		- 110														F = MeOH G - Amchlor	R - Na2S2O3 S - H2SO4
mail;	WO #:				- 8	-										100	H - Ascorbic Acid	T - TSP Dodecahyo U - Acetone
ino.zack@aecom.com roject Name	Project #:				98 0	N N		8								5 9	J - DI Water K - EDTA	V - MCAA W - pH 4-5
Scott Figgie - GW	48002539				<u>ح</u>	ž ;	š ;	Meth		1 1						ntair	L - EDA	Z - other (specify)
ite: New York	SSOW#:				Samp	So	OLMO4.2	oca								of co	Other:	
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wowater, S=solid, O=wasts/oil, BT=Tissue, AnA	eld Filtered	Perform MS/M	3811	9060A - (MOU) Local Method								Total Number	Special Ir	structions/Note
		><	_	tion Code:		XA	_	_	150	124						\times		1 1 1 1 1 1
PE-3		0700	G	Water	Ш	1	X											
PE-4	4/6/22	0715	6	Water	Ш	V												
PE-5	4/6/22	0745	6	Water		X	X											
PE-6	1 1	0800	G	Water		X	X											
PE-7	4/6/22	0815	6	Water		Y	X									100		
PE-8	4/6/22	0830	6	Water		Y	X											
WCT	4/6/22	0900	G	Water	П	Y	X											
UPLICATE				Water	П													
INSE BLANK	4/6/22	6610	6	Water	T	X												
IW-9				Water	П													
IW-14S				Water														
Possible Hazard Identification Non-Hazard Flammable Skin Irritant eliverable Requested: I, II, III, IV, Other (specify)	Poison B Unkn	own 🗆 j	Radiologica	ı			Ret	urn To	Clier		0	Dispos	sed if s sal By L	ample. .ab			ed longer than 1 nive For	month) Months
mpty Kit Relinguished by:		Date:			Tim	ne:							Method o	of Shipme	ent:			
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Custody Seals Intact: Custody Seal No.:			- 14	- 60		Cooler Temperature(s) °C and Other Remarks								XII.				









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Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record 10 Hazelwood Drive Amherst, NY 14228-2298

Environment Testing America

eurofins

Client Information	Sampler:				PM: icher, Bi	rian J							Carrie	r Tra	cking	No(s):			COC No. 480-171515-278	348.1
Client Contact: Mr. Dino Zack	Phone:			E-N	fail: an.Fiscl		Euro	finesi	· com				State	of Ori	gin:				Page:	
Company:	L		PWSID:	БП	an.risci	iei W	Euro	1111501	1.0011	-			-		_			-	Page 1 of 1	
AECOM									A	naly	sis f	Req	ues	ted						
Address: One John James Audubon Parkway Suite 210	Due Date Requestr	ed:													2	1		198	Preservation Cod A - HCL	ies: M - Hexane
City: Amherst	TAT Requested (da	sys):			1.46										DOM 10	i Ans		1	B - NaOH C - Zn Acetate	N - None O - AsNsO2
State, Zip:	Compliance Balley	Y	. 115												M	En			D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3
NY, 14228 Phone:	Compliance Project	ει: Δ 198	A NO	-											0	٥٥٦			F - MeOH	R - Na2S2O3
There.	141583			17	3	Ž.						j			4	2	-		G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
Email:	wo #: 60676130	10 1		7	ᄚ					ی	- 1		ļ		1.5	- 1		950	I - Ice J - DI Water	U - Acetone V - MCAA
dino.zack@aecom.com Project Name:	Project #:			-+	te (Yes or	192				Calc		0			7	(MOD)		2	K - EDTA	W - pH 4-5
Scott Figgie West of Plant 2 - MNA	48002539	- 1			12 3	8		gase		Nitrate		3500_FE_D		fate	72	5		量	L - EDA	Z - other (specify)
Site: New York	SSOW#:				Samp SD O	D5 - C02		solved gases	sulfid	urite, N			no.	ns (qc	1-3	4		of cor	Other:	
		Sample	Sample Type (C=comp,	Matrix (W=water, 8=solid, O=waste/oil,	old Filtered	RSK_175_C02	200.7 - T. Iron	RSK_175 - Disa	SM4500_S2_F	353.2, 353.2_Nitrite,	310.2 - alkalinity	3500_Fe+3_D_Cal,	200.7 - (MOD) D.	300.0_28D - (MOD) Sulfate		90601		Total Number		
Sample Identification	Sample Date	Time		TeTiesus, AsA	小庄庄	7	1000		-			_	_	All Land	0.16	15,82	SALE US	P	Special In	structions/Note:
			Preservati	ALC: N. H. HOLLY	W	N	D	Α	СВ	N	N	N	N	N			學生。第	X	설정(Herritales)	
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MW-8R	41499	1300	6	Water		X	X	X	X	Y	Y	X	X	X	X	X		1.		
MW-13S_				Water														PASS RES		
MW-18S-		1		Water																
MW-16D	41699	1450	6	Water		X	X	X	X	X	Χ	X	X	V	X	X				
MW-11				Water							ľ							100		
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Possible Hazard Identification Non-Hazard Flammable Skin Irritant					Sa	<u> </u>	Dis		•		nay b	e as	505	seu.	• -		.ouy	~~	<u>n 1</u>	month)
Deliverable Requested: I, II, III, IV, Other (specify)	Poison B Unkn	own i	Radiological		Sp		instr				quire			al B	y Lai)		•		Months
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Relinquished by:	Date/Time:		C	ompany		Rece	ived b	y:								Date/T	ime:	-		Company
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Ver: 06/08/2021

Eurotins Buffalo

Phone: 716-691-2600 Fax: 716-691-7991

10 Hazelwood Drive Amherst, NY 14228-2298

Chain of Custody Record

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Environment Testing America

Client Information	Sampler:	10 2	Pach		b PM: scher, E	Brian .	J					С	arrier	Tracki	ng No	(8):	-		COC No: 480-171515-2784	10.1
Mr. Dino Zack	Phone: 7/6	866	822	2 E-1	Mail: rian.Fisc	her@	Euro	finset	com)		s	tate of	Origin	V1,	Y			Page: Page 1 of 1	10.1
Company: AECOM			PWSID:								·		1		10				Job#:	
Address: One John James Audubon Parkway Suite 210	Due Date Requeste	ed:					Т		A	nalys	SIS P	equ	est	∌a T	1		_	1653	Preservation Code	oe.
City: Amherst	TAT Requested (da	ivs):	2		_										1	3			A - HCL	M - Hexane
Amherst State, Zip:		5	10		12										6				B - NaOH C - Zn Acetate	N - None O - AsNaO2
NY, 14228	Compliance Project	t: A Yes	Δ No		1										M.	1			D - Nitric Acid E - NaHSO4	P - Na2O4S
Phone: 716-866-8222	PO#: 141583												ı		1. st 61 mode	1			F - MeOH G - Amchior	Q - Na2SO3 R - Na2S2O3 S - H2SO4
Email:	WO #:				- <u>S</u>	1									3	7				T - TSP Dodecahydrate
dino.zack@aecom.com Project Name:	60676130 Project #:				10 80	2				Calc	Ì	م			7	(no)		2	J - DI Water K - EDTA	U - Acetone V - MCAA
Scott Figgie West of Plant 2 - MNA Site:	48002539				le (Yes	2 2		3868		rate		삔		g /	10	5		aine	L-EDA	W - pH 4-5 Z - other (specify)
Site: New York	SSOW#:				Sample	2 8		ved g	ulfide	te, Nit		1, 3500	ē.) Suit	١	7		Contair	Other:	
		Sample	Sample Type (C=comp,	Matrix (W=water, 8=solid, 0=waste/oil	Filtered	RSK_175_C02_D5 - C02	200.7 - T. Iron	RSK_175 - Dissolved gases	SM4500_S2_F - suffide	353.2, 353.2_Nitrite, Nitrate_Calc	310.2 - alkalinity	3500_Fe+3_D_Cal, 3500_FE_D	200.7 - (MOD) D. Iron		3700 5	40000		il Number of		
Sample Identification	Sample Date	Time	G=grab)	BT=Tissue, A=	Air) E	7	-	-	-	353	310	350	8	3	0	2		Total	Special Ins	structions/Note:
MW-4			Preserva	ation Code	Y	N	D	Α	CB	N	N I	N N	1 1	4 6		2 2	f this	X		
MW-8R				Water		_									\perp					
				Water	Ш													A Z		
MW-13S				Water									T	T				1 S		
MW-16S	4/1/22	0630	6	Water	TT	X	(X	X	X	X	X	X	X	X :	X	X	\top			
M W-16 D	,			Water					,	7,	1				1	+	+	1,0		
MVV-11				Water	+							+	+	+	+	+	+	333		
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Non-Hazard Flammahla Skin Irritant Roi	D		0- " 1 - 1		s	ampl	e Dis	posa	I(A	fee n	nay b	0.055	sess	ed if	sam	pies			ed longer than 1	month)
Possible Hazard Identification Non-Hazard Flammable Skin Imitant Poi Deliverable Requested: I, II, III, IV, Other (specify)	SOIL OTIKE	own	Radiologica	1/	s		Returi				ouire	Dis	pose	l By	Lab			Arch	nive For	Months
Empty Kit Relingdished by:		Date:			Time									-4bd	-101					
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Custody Seals Intact: Custody Seal No.: Δ Yes Δ No									ure(s)	°C and	Othe	Rema	zrks:	7		C				







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Ver: 06/08/2021

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Eurofins Buffalo

10 Hazelwood Drive Amherst, NY 14228-2298

Chain of Custody Record



Environment Testing

Phone 716-691-2600 Fax: 716-691-7991 Sampler Lab PM Client Information (Sub Contract Lab) Fischer, Brian J Client Contact: Phone E-Mail Shipping/Receiving Brian Fischer@et.eurofinsus com New York Page 1 of 1 Company⁻ Accreditations Required (See note) Job # TestAmerica Laboratories, Inc NELAP - New York 480-196417-1 Address Due Date Requested: Preservation Codes: 530 Community Drive, Suite 11. 4/18/2022 **Analysis Requested** TAT Requested (days): M - Hexane South Burlington B - NaOH N - None State, Zip C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S VT, 05403 E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 802-660-1990(Tel) 802-660-1919(Fax) G - Amchlor S - H2SO4 Email T - TSP Dodecahydrate H - Ascorbic Acid WO# I - Ice U - Acetone J - DI Water V - MCAA Project # K - EDTA W - pH 4-5 ö Scott Figgre West of Plant 2 48002539 L - EDA Z - other (specify) Perform MS/MSD (Yes SSOW# Ö Other: Scott Aviation Site Number Matrix Sample (W=water, Type S=solid, O=waste/oil. Sample (C=comp, Total Sample Identification - Client ID (Lab ID) Sample Date Time G=grab) BT=Tissue, A=Air) Special Instructions/Note: Preservation Code: MW-13S (480-196417-1) 14 40 4/5/22 Water Х 3 Eastern MW-11 (480-196417-2) 09.45 4/5/22 Water Х 3 Eastern Note Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC 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 Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northeast, LLC Possible Hazard Identification 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: 4 Special Instructions/QC Requirements Date Time Method of Shipment Relinquished by Received by Relinquished by Received by Relinquished by Date/Time. Received by Date/Time. Custody Seals Intact: Custody Seal No.. Cooler Temperature(s) °C and Other Remarks Δ Yes Δ No

Ver: 06/08/2021











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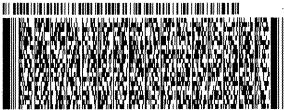
SAMPLE MGT. **EUROFINS BURLINGTON** 530 COMMUNITY DRIVE

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SOUTH BURLINGTON VT 05403

(802) 923-1026

REF: TA BURLINGTON



FedEx Express

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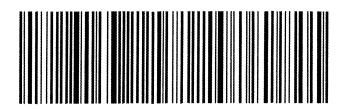
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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-196555-1

Client Project/Site: Scott Figgie West of Plant 2

For:

AECOM
One John James Audubon Parkway
Suite 210
Amherst, New York 14228

Attn: Mr. Dino Zack

J.

Authorized for release by: 4/12/2022 2:39:39 PM

Rebecca Jones, Project Management Assistant I Rebecca.Jones@et.eurofinsus.com

Designee for

Brian Fischer, Manager of Project Management (716)504-9835

Brian.Fischer@et.eurofinsus.com

.....LINKS

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Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: AECOM

Project/Site: Scott Figgie West of Plant 2

Laboratory Job ID: 480-196555-1

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Lab Chronicle	11
Certification Summary	12
Method Summary	13
Sample Summary	14
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Definitions/Glossary

Client: AECOM Job ID: 480-196555-1

Project/Site: Scott Figgie West of Plant 2

Qualifiers

Air - GC/MS VOA

Qualifier Qualifier Description

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)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: AECOM Job ID: 480-196555-1

Project/Site: Scott Figgie West of Plant 2

Job ID: 480-196555-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-196555-1

Comments

No additional comments.

Receipt

The samples were received on 4/7/2022 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

Air Toxics

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

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Client: AECOM Job ID: 480-196555-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: 2Q22 AS

Date Collected: 04/04/22 08:15 Date Received: 04/07/22 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 480-196555-1

Matrix: Air

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Analyte		Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
1,1,2-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
1,1-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
1,1-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	ppb v/v			04/11/22 15:34	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
1,2-Dibromoethane	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
1,2-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
1,2-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.40	ppb v/v			04/11/22 15:34	1
1,2-Dichloropropane	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
1,3-Butadiene	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
1,3-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
1,4-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
1,4-Dioxane	5.0	U	5.0	5.0	ppb v/v			04/11/22 15:34	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
2-Chlorotoluene	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
3-Chloropropene	0.50	U	0.50	0.50	ppb v/v			04/11/22 15:34	1
4-Ethyltoluene	0.20	U	0.20		ppb v/v			04/11/22 15:34	1
Acetone	5.0	U	5.0		ppb v/v			04/11/22 15:34	1
Benzene	0.20	U	0.20		ppb v/v			04/11/22 15:34	1
Bromodichloromethane	0.20	U	0.20	0.20	ppb v/v			04/11/22 15:34	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20		ppb v/v			04/11/22 15:34	1
Bromoform	0.20	U	0.20		ppb v/v			04/11/22 15:34	1
Bromomethane	0.20	U	0.20		ppb v/v			04/11/22 15:34	1
Carbon disulfide	0.50	U	0.50		ppb v/v			04/11/22 15:34	1
Carbon tetrachloride	0.20	U	0.20		ppb v/v			04/11/22 15:34	1
Chlorobenzene	0.20	U	0.20		ppb v/v			04/11/22 15:34	1
Chloroethane	0.50	U	0.50		ppb v/v			04/11/22 15:34	1
Chloroform	0.20	U	0.20		ppb v/v			04/11/22 15:34	1
Chloromethane	0.50		0.50		ppb v/v			04/11/22 15:34	1
cis-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			04/11/22 15:34	1
cis-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			04/11/22 15:34	1
Cyclohexane	0.20	U	0.20		ppb v/v			04/11/22 15:34	1
Dibromochloromethane	0.20		0.20		ppb v/v			04/11/22 15:34	1
Dichlorodifluoromethane	0.50		0.50		ppb v/v			04/11/22 15:34	1
Ethylbenzene	0.20		0.20		ppb v/v			04/11/22 15:34	1
Freon TF	0.20		0.20		ppb v/v			04/11/22 15:34	1
Hexachlorobutadiene	0.20		0.20		ppb v/v			04/11/22 15:34	1
Isopropyl alcohol	5.0		5.0		ppb v/v			04/11/22 15:34	1
m,p-Xylene	0.50		0.50		ppb v/v			04/11/22 15:34	1
Methyl Butyl Ketone (2-Hexanone)	0.50		0.50		ppb v/v			04/11/22 15:34	1
Methyl Ethyl Ketone	0.54		0.50		ppb v/v			04/11/22 15:34	
methyl isobutyl ketone	0.50	U	0.50		ppb v/v			04/11/22 15:34	1
Methyl tert-butyl ether	0.20		0.20		ppb v/v			04/11/22 15:34	1

Client: AECOM Job ID: 480-196555-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: 2Q22 AS

Date Collected: 04/04/22 08:15 Date Received: 04/07/22 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 480-196555-1

Matrix: Air

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Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.50		0.50		ppb v/v			04/11/22 15:34	1
n-Heptane	0.20		0.20		ppb v/v			04/11/22 15:34	
n-Hexane	0.50		0.50		ppb v/v			04/11/22 15:34	1
Styrene	0.20		0.20		ppb v/v			04/11/22 15:34	1
tert-Butyl alcohol	5.0	U	5.0		ppb v/v			04/11/22 15:34	1
Tetrachloroethene	0.20		0.20		ppb v/v			04/11/22 15:34	1
Tetrahydrofuran	5.0		5.0		ppb v/v			04/11/22 15:34	1
Toluene	0.21		0.20		ppb v/v			04/11/22 15:34	1
trans-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			04/11/22 15:34	1
trans-1,3-Dichloropropene	0.20		0.20		ppb v/v			04/11/22 15:34	1
Trichloroethene	0.20		0.20		ppb v/v			04/11/22 15:34	1
Trichlorofluoromethane	0.20		0.20		ppb v/v			04/11/22 15:34	1
Vinyl chloride	0.20		0.20		ppb v/v			04/11/22 15:34	1
Xylene (total)	0.70		0.70		ppb v/v			04/11/22 15:34	1
Xylene, o-	0.20		0.20		ppb v/v			04/11/22 15:34	1
						_	D		D:: E
Analyte	1.1	Qualifier	RL 1.1	1.1	Unit	D	Prepared	Analyzed 04/11/22 15:34	Dil Fac
1,1,1-Trichloroethane					U				1
1,1,2,2-Tetrachloroethane	1.4		1.4		ug/m3			04/11/22 15:34	1
1,1,2-Trichloroethane	1.1		1.1		ug/m3			04/11/22 15:34	
1,1-Dichloroethane	0.81		0.81		ug/m3			04/11/22 15:34	1
1,1-Dichloroethene	0.79		0.79		ug/m3			04/11/22 15:34	1
1,2,4-Trichlorobenzene	3.7		3.7		ug/m3			04/11/22 15:34	
1,2,4-Trimethylbenzene	0.98		0.98		ug/m3			04/11/22 15:34	1
1,2-Dibromoethane	1.5		1.5		ug/m3			04/11/22 15:34	1
1,2-Dichlorobenzene	1.2		1.2		ug/m3			04/11/22 15:34	
1,2-Dichloroethane	0.81		0.81		ug/m3			04/11/22 15:34	1
1,2-Dichloroethene, Total	1.6		1.6		ug/m3			04/11/22 15:34	1
1,2-Dichloropropane	0.92		0.92		ug/m3			04/11/22 15:34	1
1,2-Dichlorotetrafluoroethane	1.4		1.4		ug/m3			04/11/22 15:34	1
1,3,5-Trimethylbenzene	0.98		0.98		ug/m3			04/11/22 15:34	1
1,3-Butadiene	0.44		0.44		ug/m3			04/11/22 15:34	
1,3-Dichlorobenzene	1.2		1.2		ug/m3			04/11/22 15:34	1
1,4-Dichlorobenzene	1.2		1.2		ug/m3			04/11/22 15:34	1
1,4-Dioxane	18		18		ug/m3			04/11/22 15:34	1
2,2,4-Trimethylpentane	0.93		0.93		ug/m3			04/11/22 15:34	1
2-Chlorotoluene	1.0		1.0		ug/m3			04/11/22 15:34	1
3-Chloropropene	1.6		1.6		ug/m3			04/11/22 15:34	1
4-Ethyltoluene	0.98		0.98		ug/m3			04/11/22 15:34	1
Acetone	12		12		ug/m3			04/11/22 15:34	1
Benzene	0.64		0.64		ug/m3			04/11/22 15:34	1
Bromodichloromethane	1.3		1.3		ug/m3			04/11/22 15:34	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87		ug/m3			04/11/22 15:34	1
Bromoform	2.1		2.1		ug/m3			04/11/22 15:34	1
Bromomethane	0.78		0.78		ug/m3			04/11/22 15:34	1
Carbon disulfide	1.6	U	1.6	1.6	ug/m3			04/11/22 15:34	1
Carbon tetrachloride	1.3	U	1.3	1.3	ug/m3			04/11/22 15:34	1
Chlorobenzene	0.92	U	0.92	0.92	ug/m3			04/11/22 15:34	1
Chloroethane	1.3	U	1.3	1.3	ug/m3			04/11/22 15:34	1

Client: AECOM Job ID: 480-196555-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: 2Q22 AS

Date Collected: 04/04/22 08:15 Date Received: 04/07/22 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 480-196555-1

Matrix: Air

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.98	U	0.98	0.98	ug/m3			04/11/22 15:34	1
Chloromethane	1.0		1.0	1.0	ug/m3			04/11/22 15:34	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			04/11/22 15:34	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			04/11/22 15:34	1
Cyclohexane	0.69	U	0.69	0.69	ug/m3			04/11/22 15:34	1
Dibromochloromethane	1.7	U	1.7	1.7	ug/m3			04/11/22 15:34	1
Dichlorodifluoromethane	2.5	U	2.5	2.5	ug/m3			04/11/22 15:34	1
Ethylbenzene	0.87	U	0.87	0.87	ug/m3			04/11/22 15:34	1
Freon TF	1.5	U	1.5	1.5	ug/m3			04/11/22 15:34	1
Hexachlorobutadiene	2.1	U	2.1	2.1	ug/m3			04/11/22 15:34	1
Isopropyl alcohol	12	U	12	12	ug/m3			04/11/22 15:34	1
m,p-Xylene	2.2	U	2.2	2.2	ug/m3			04/11/22 15:34	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	2.0	ug/m3			04/11/22 15:34	1
Methyl Ethyl Ketone	1.6		1.5	1.5	ug/m3			04/11/22 15:34	1
methyl isobutyl ketone	2.0	U	2.0	2.0	ug/m3			04/11/22 15:34	1
Methyl tert-butyl ether	0.72	U	0.72	0.72	ug/m3			04/11/22 15:34	1
Methylene Chloride	1.7	U	1.7	1.7	ug/m3			04/11/22 15:34	1
n-Heptane	0.82	U	0.82	0.82	ug/m3			04/11/22 15:34	1
n-Hexane	1.8	U	1.8	1.8	ug/m3			04/11/22 15:34	1
Styrene	0.85	U	0.85	0.85	ug/m3			04/11/22 15:34	1
tert-Butyl alcohol	15	U	15	15	ug/m3			04/11/22 15:34	1
Tetrachloroethene	1.4	U	1.4	1.4	ug/m3			04/11/22 15:34	1
Tetrahydrofuran	15	U	15	15	ug/m3			04/11/22 15:34	1
Toluene	0.77		0.75	0.75	ug/m3			04/11/22 15:34	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			04/11/22 15:34	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			04/11/22 15:34	1
Trichloroethene	1.1	U	1.1	1.1	ug/m3			04/11/22 15:34	1
Trichlorofluoromethane	1.1	U	1.1	1.1	ug/m3			04/11/22 15:34	1
Vinyl chloride	0.51	U	0.51	0.51	ug/m3			04/11/22 15:34	1
Xylene (total)	3.0	U	3.0	3.0	ug/m3			04/11/22 15:34	1
Xylene, o-	0.87	U	0.87	0.87	ug/m3			04/11/22 15:34	1

Client: AECOM Job ID: 480-196555-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: 2Q22 LRP

Date Collected: 04/04/22 08:30 Date Received: 04/07/22 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 480-196555-2

Matrix: Air

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Analyte	ic Compor Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	1
1,1,2-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	1
1,1-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	1
1,1-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	ppb v/v			04/11/22 16:28	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	1
1,2-Dibromoethane	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	1
1,2-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	1
1,2-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	1
1,2-Dichloroethene, Total	0.52		0.40	0.40	ppb v/v			04/11/22 16:28	1
1,2-Dichloropropane	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	1
1,3-Butadiene	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	1
1,3-Dichlorobenzene	0.20		0.20		ppb v/v			04/11/22 16:28	1
1,4-Dichlorobenzene	0.20	U	0.20		ppb v/v			04/11/22 16:28	1
1,4-Dioxane	5.0	U	5.0		ppb v/v			04/11/22 16:28	1
2,2,4-Trimethylpentane	0.20		0.20		ppb v/v			04/11/22 16:28	1
2-Chlorotoluene	0.20	U	0.20		ppb v/v			04/11/22 16:28	1
3-Chloropropene	0.50	U	0.50		ppb v/v			04/11/22 16:28	1
4-Ethyltoluene	0.20		0.20		ppb v/v			04/11/22 16:28	1
Acetone	6.0		5.0		ppb v/v			04/11/22 16:28	1
Benzene	0.20	U	0.20		ppb v/v			04/11/22 16:28	1
Bromodichloromethane	0.20		0.20		ppb v/v			04/11/22 16:28	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20		ppb v/v			04/11/22 16:28	1
Bromoform	0.20		0.20		ppb v/v			04/11/22 16:28	1
Bromomethane	0.20		0.20		ppb v/v			04/11/22 16:28	1
Carbon disulfide	0.50		0.50		ppb v/v			04/11/22 16:28	1
Carbon tetrachloride	0.20	U	0.20		ppb v/v			04/11/22 16:28	1
Chlorobenzene	0.20		0.20		ppb v/v			04/11/22 16:28	1
Chloroethane	0.50	U	0.50		ppb v/v			04/11/22 16:28	1
Chloroform	0.20		0.20		ppb v/v			04/11/22 16:28	1
Chloromethane	0.53		0.50		ppb v/v			04/11/22 16:28	1
cis-1,2-Dichloroethene	0.52		0.20		ppb v/v			04/11/22 16:28	1
cis-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			04/11/22 16:28	1
Cyclohexane	0.20		0.20		ppb v/v			04/11/22 16:28	
Dibromochloromethane	0.20		0.20		ppb v/v			04/11/22 16:28	1
Dichlorodifluoromethane	0.50		0.50		ppb v/v			04/11/22 16:28	1
Ethylbenzene	0.20		0.20		ppb v/v			04/11/22 16:28	· · · · · · · · · 1
Freon TF	0.20		0.20		ppb v/v			04/11/22 16:28	1
Hexachlorobutadiene	0.20		0.20		ppb v/v			04/11/22 16:28	1
Isopropyl alcohol	5.0		5.0		ppb v/v			04/11/22 16:28	· · · · · · · · 1
m,p-Xylene	0.50		0.50		ppb v/v			04/11/22 16:28	1
Methyl Butyl Ketone (2-Hexanone)	0.50		0.50		ppb v/v			04/11/22 16:28	1
Methyl Ethyl Ketone	0.70		0.50		ppb v/v			04/11/22 16:28	
methyl isobutyl ketone	0.70	Ш	0.50		ppb v/v			04/11/22 16:28	1
Methyl tert-butyl ether	0.30		0.30		ppb v/v			04/11/22 16:28	1

Client: AECOM Job ID: 480-196555-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: 2Q22 LRP

Date Collected: 04/04/22 08:30 Date Received: 04/07/22 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 480-196555-2

Matrix: Air

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Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fa
Methylene Chloride	0.50	U	0.50	0.50	ppb v/v			04/11/22 16:28	
n-Heptane	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	
n-Hexane	0.50	U	0.50	0.50	ppb v/v			04/11/22 16:28	
Styrene	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	
tert-Butyl alcohol	5.0	U	5.0	5.0	ppb v/v			04/11/22 16:28	
Tetrachloroethene	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	
Tetrahydrofuran	5.0	U	5.0	5.0	ppb v/v			04/11/22 16:28	
Toluene	0.34		0.20	0.20	ppb v/v			04/11/22 16:28	
trans-1,2-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	
trans-1,3-Dichloropropene	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	
Trichloroethene	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	
Trichlorofluoromethane	0.20		0.20	0.20	ppb v/v			04/11/22 16:28	
Vinyl chloride	1.2		0.20	0.20	ppb v/v			04/11/22 16:28	
Xylene (total)	0.70	U	0.70		ppb v/v			04/11/22 16:28	
Xylene, o-	0.20	U	0.20	0.20	ppb v/v			04/11/22 16:28	
Analyte	Result	Qualifier	RL	RI	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane			1.1	1.1	ug/m3	_ = -	opu.ou	04/11/22 16:28	
1,1,2,2-Tetrachloroethane	1.4		1.4		ug/m3			04/11/22 16:28	
1,1,2-Trichloroethane	1.1		1.1	1.1	ug/m3			04/11/22 16:28	
1,1-Dichloroethane	0.81		0.81		ug/m3			04/11/22 16:28	
1.1-Dichloroethene	0.79		0.79		ug/m3			04/11/22 16:28	
1,2,4-Trichlorobenzene	3.7		3.7		ug/m3			04/11/22 16:28	
1,2,4-Trimethylbenzene	0.98		0.98		ug/m3			04/11/22 16:28	
1,2-Dibromoethane	1.5		1.5		ug/m3			04/11/22 16:28	
1,2-Dichlorobenzene	1.2		1.2		ug/m3			04/11/22 16:28	
1,2-Dichloroethane	0.81		0.81		ug/m3			04/11/22 16:28	
1,2-Dichloroethene, Total	2.1	J	1.6		ug/m3			04/11/22 16:28	
1,2-Dichloropropane	0.92	U	0.92		ug/m3			04/11/22 16:28	
1,2-Dichlorotetrafluoroethane	1.4		1.4		ug/m3			04/11/22 16:28	
1,3,5-Trimethylbenzene	0.98		0.98		ug/m3			04/11/22 16:28	
1,3-Butadiene	0.44		0.44		ug/m3			04/11/22 16:28	
1,3-Dichlorobenzene	1.2		1.2		ug/m3			04/11/22 16:28	
1,4-Dichlorobenzene	1.2		1.2		ug/m3			04/11/22 16:28	
1,4-Dioxane	18		18		ug/m3			04/11/22 16:28	
2,2,4-Trimethylpentane	0.93		0.93		ug/m3			04/11/22 16:28	
2-Chlorotoluene	1.0		1.0		ug/m3			04/11/22 16:28	
3-Chloropropene	1.6		1.6		ug/m3			04/11/22 16:28	
4-Ethyltoluene	0.98		0.98		ug/m3			04/11/22 16:28	
Acetone	14	J	12		ug/m3			04/11/22 16:28	
Benzene	0.64	11	0.64		ug/m3			04/11/22 16:28	
Bromodichloromethane	1.3		1.3		ug/m3			04/11/22 16:28	
Bromoethene(Vinyl Bromide)	0.87		0.87		ug/m3			04/11/22 16:28	
Bromoform	2.1		2.1		ug/m3			04/11/22 16:28	
Bromomethane	0.78		0.78		ug/m3			04/11/22 16:28	
Carbon disulfide	1.6		1.6		ug/m3			04/11/22 16:28	
Carbon distillide Carbon tetrachloride	1.3		1.3		ug/m3			04/11/22 16:28	
Carbon tetrachionde	0.92		0.92		ug/m3			04/11/22 16:28	
Chloroethane	1.3		1.3		ug/m3			04/11/22 16:28	

Client: AECOM Job ID: 480-196555-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: 2Q22 LRP

Date Collected: 04/04/22 08:30 Date Received: 04/07/22 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 480-196555-2

Matrix: Air

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Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.98	U	0.98	0.98	ug/m3			04/11/22 16:28	1
Chloromethane	1.1		1.0	1.0	ug/m3			04/11/22 16:28	1
cis-1,2-Dichloroethene	2.1		0.79	0.79	ug/m3			04/11/22 16:28	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			04/11/22 16:28	1
Cyclohexane	0.69	U	0.69	0.69	ug/m3			04/11/22 16:28	1
Dibromochloromethane	1.7	U	1.7	1.7	ug/m3			04/11/22 16:28	1
Dichlorodifluoromethane	2.5	U	2.5	2.5	ug/m3			04/11/22 16:28	1
Ethylbenzene	0.87	U	0.87	0.87	ug/m3			04/11/22 16:28	1
Freon TF	1.5	U	1.5	1.5	ug/m3			04/11/22 16:28	1
Hexachlorobutadiene	2.1	U	2.1	2.1	ug/m3			04/11/22 16:28	1
Isopropyl alcohol	12	U	12	12	ug/m3			04/11/22 16:28	1
m,p-Xylene	2.2	U	2.2	2.2	ug/m3			04/11/22 16:28	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	2.0	ug/m3			04/11/22 16:28	1
Methyl Ethyl Ketone	2.1		1.5	1.5	ug/m3			04/11/22 16:28	1
methyl isobutyl ketone	2.0	U	2.0	2.0	ug/m3			04/11/22 16:28	1
Methyl tert-butyl ether	0.72	U	0.72	0.72	ug/m3			04/11/22 16:28	1
Methylene Chloride	1.7	U	1.7	1.7	ug/m3			04/11/22 16:28	1
n-Heptane	0.82	U	0.82	0.82	ug/m3			04/11/22 16:28	1
n-Hexane	1.8	U	1.8	1.8	ug/m3			04/11/22 16:28	1
Styrene	0.85	U	0.85	0.85	ug/m3			04/11/22 16:28	1
tert-Butyl alcohol	15	U	15	15	ug/m3			04/11/22 16:28	1
Tetrachloroethene	1.4	U	1.4	1.4	ug/m3			04/11/22 16:28	1
Tetrahydrofuran	15	U	15	15	ug/m3			04/11/22 16:28	1
Toluene	1.3		0.75	0.75	ug/m3			04/11/22 16:28	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			04/11/22 16:28	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			04/11/22 16:28	1
Trichloroethene	1.1	U	1.1	1.1	ug/m3			04/11/22 16:28	1
Trichlorofluoromethane	1.1		1.1	1.1	ug/m3			04/11/22 16:28	1
Vinyl chloride	3.1		0.51	0.51	ug/m3			04/11/22 16:28	1
Xylene (total)	3.0	U	3.0	3.0	ug/m3			04/11/22 16:28	1
Xylene, o-	0.87	U	0.87	0.87	ug/m3			04/11/22 16:28	1

Lab Chronicle

Client: AECOM Job ID: 480-196555-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: 2Q22 AS Lab Sample ID: 480-196555-1

Date Collected: 04/04/22 08:15 Matrix: Air

Date Received: 04/07/22 10:40

Batch Batch Dilution Batch Prepared **Prep Type** Туре Method Run **Factor** Number or Analyzed Analyst Lab TAL BUR Total/NA Analysis TO-15 178615 04/11/22 15:34

Client Sample ID: 2Q22 LRP Lab Sample ID: 480-196555-2

Date Collected: 04/04/22 08:30

Date Received: 04/07/22 10:40

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	178615	04/11/22 16:28	K1P	TAL BUR

Laboratory References:

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

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Matrix: Air

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Accreditation/Certification Summary

Client: AECOM Job ID: 480-196555-1

Project/Site: Scott Figgie West of Plant 2

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21 *
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-22
Florida	NELAP	E87467	06-30-22
Minnesota	NELAP	050-999-436	12-31-22
New Hampshire	NELAP	2006	12-18-22
New Jersey	NELAP	VT972	06-30-22
New York	NELAP	10391	04-01-23
Pennsylvania	NELAP	68-00489	04-30-23
Rhode Island	State	LAO00298	12-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-23
Virginia	NELAP	460209	12-14-22
Wisconsin	State	399133350	08-31-22

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 $^{{}^{\}star}\operatorname{Accreditation/Certification\ renewal\ pending\ -\ accreditation/certification\ considered\ valid}.$

Method Summary

Client: AECOM Job ID: 480-196555-1

Project/Site: Scott Figgie West of Plant 2

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

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Sample Summary

Client: AECOM Job ID: 480-196555-1

Project/Site: Scott Figgie West of Plant 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-196555-1	2Q22 AS	Air	04/04/22 08:15	04/07/22 10:40	Air Canister (6-Liter) #4020
480-196555-2	2Q22 LRP	Air	04/04/22 08:30	04/07/22 10:40	Air Canister (6-Liter) #5968

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Login Number: 196555 List Source: Eurofins Buffalo

List Number: 1

Creator: Beane, John P

Creator. Bearie, John P	itor. Bearle, John P				
Question	Answer	Comment			
Radioactivity either was not measured or, if measured, is at or below background		NA: Lab does not accept radioactive samples			
The cooler's custody seal, if present, is intact.	True	1719518, 1719519			
The cooler or samples do not appear to have been compromised or tampered with.	True				
Samples were received on ice.	N/A	No: Thermal preservation not required			
Cooler Temperature is acceptable.	True				
Cooler Temperature is recorded.	N/A	No: Thermal preservation not required			
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.	N/A				

Login Number: 196555

List Number: 2

Creator: Beane, John P

List Source: Eurofins Burlington

List Creation: 04/08/22 11:23 AM

Question	Answer	Comment			
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td>Lab does not accept radioactive samples.</td>	N/A	Lab does not accept radioactive samples.			
The cooler's custody seal, if present, is intact.	True	1719518, 1719519			
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.	N/A	Thermal preservation not required.			
Cooler Temperature is acceptable.	True				
Cooler Temperature is recorded.	N/A	Thermal preservation not required.			
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				

Form No. CA-C-WI-003, Rev. 2.28, dated 1/8/2021 (See below for Add'l Items) Sample Specific Notes: COCS Torsall, sub To 15 all 545 TALS Project #

For Lab Use Only: Nalk-in Client: ab Sampling. Job / SDG No 480-196555 Chain of Custody COC No OH: 07 F8/2/h Other (Please specify in notes section) ese llithns. Soil Vapor Extraction (SVE) Soil Gas BUL qels-qns ۲ FestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples ndoor Air/Ambient Air edyT elqme3 Ofher (Please specify in notes section) 81/81 A93 Ban 8461-G MT2A Dres Ench EPA 25C DE AG MIS 91-01 Samples Received by: FO-14/15 (Standard / Low Level) Canister ID Samples Collected By: 4020 5968 Received by: Received by: Flow Controller ID Condition: ζ 7 Temperature (Fahrenheit) Ambient Pressure (inches of Hg) Ambient Vacuum in Field, "Hg (Stop) Canister \$ @ accomican Zy. Zuch Canister Vacuum in Field, "Hg (Start) 1296 1200 Analysis Turnaround Time シャグ Client Project Manager: $v_{\ell lpha st}$ 4/1/2 0530 4/4/2 0830 Time Stop 3/20 021/3/ Date /Time: Email: Alas Zack Date / Time: Site Contact: () ∧ ₃ Date / Time: Opened by: Sample End Date Standard (Specific): Interior Interior Rush (Specifiy). 4/422 DSIS Tel/Fax Time Start Start Start Portmi Sample Start Date Special Instructions/QC Requirements & Comments: Address. One John Showers Andus. Shipper Name: × South Burlington, VT 05403-6809 phone 802.660 1990 fax 802.660 1919 Sample Identification Phone: 716 866 822 west of Garens W. Company Name A E Com して D+5 Am hos K Client Contact Information Samples Relinquished by: Samples Shipped by: Relinquished by: とりい 20 Lab Use Only: Site/Location. Project Name # O d Page 17 of 18

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Canister Samples Chain of Custody Record

Eurofins TestAmerica, Burlington

530 Community Drive

Surfe 11

Sa



eurofins

Environment Testing TestAmerica

ORIGIN ID:DKKA (716) 691-2600 SAMPLE RECEIPT EUROFINS BUFFALO 10 HAZELWOOD DR

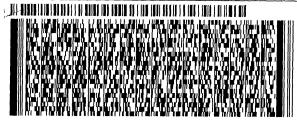
AMHERST, NY 14228 UNITED STATES US

BILL RECIPIENT

SAMPLE MGT.

EUROFINS BURLINGTON 530 COMMUNITY DRIVE SUITE 11

SOUTH BURLINGTON VT 05403 (802) 923 – 1026 REF: TA BURLINGTON



FedEx Express



TRK# 0201 1888 3869 2975

THU - 07 APR 10:30A PRIORITY OVERNIGHT

NL BTVA

05403 vr-us BTV





Analytical Results

SiREM File Reference: S-9033

Client: AECOM Client Project Number: 60676130-1 Date Samples Received: April 8, 2022 Date Samples Analyzed: April 19, 2022

mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			•	3. =	, <i>g.</i> –
<7.8	532	<6.2	<4.4	48	< 0.69
< 0.39	37	<0.31	<0.22	<0.41	< 0.69
	•			•	0.69
_					<0.39

1,000 7.8 10.8 6.2 4.4 8.2 13.8	0.39 0.54 0.31 0.22 0.41 0.69	0.39	50	ΟI
	/8 108 62 44 82 138 	7.8	1,000	QL

Comments:

QL = Quantitation limit

Laboratory Technician

< = compound analysed for but not detected, associated value is QL. Sample QL is corrected for dilution.</p>

Analyst:

Results approved:

Michael Healey, B.Sc.

Date:

21-Apr-22

Laboratory Supervisor

siremlab com Page 1 of 1



Mandatory Fields

Chain-of-Custody Form

siremlab.com

180B Market Place Blvd Knoxville, TN 37922 1-865-291-4718 or 1-866-251-1747 5-9033

*Project Name West Piant 2 *Project Manager	*Project # 6	1	Analysis											
	*Company /	Elon	1											
*Email Address.	02										ses			Preservative Key 0. None
One John James Anduban Por	kuan	51	, 21	0							on gas		5	1, HCL
*Email Address. Address (Street) City Anhast *Phone # 716 866 8222 *Sample In State Province State St	Co	ountry (S	U	오	4	<u> </u>	W QW	<u>a</u>	Acids	rocarb	udy	#1S	3. Other
*Phone # 716 866 8227					Gene-Trac DHC	rac FG	rac DH	тас DH	lac SR	Fatty	ed hydi	ility St	75	4. Other
*Phone # 716 866 8222 *Sampler's Signature	Printed Di	13 2	ch		Gene-1	Gene-Trac FGA	Gene-Trac DHB	Gene-Trac DHGM	Gene-Trac SRB	Volatile Fatty Acids	Dissolved hydrocarbon gases	Treatability Study	玄	5. Other6. Other
Client Sample ID		pling		# of										O. OUTCI
MW-165	Date	Time	Matrix	Containers										Other Information
MW-88	4/7/22		GW	3	Х	Χ	Х			X			1	BK-08462 2x40ml
111W-81C	4/6/22	1830	GW	2		-				X			2	2440m/
2														
	-													
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Date/Time 4/7/22 0830 NS Date/Time 2021	25 Da	te/Time			Date	e/Time				1	Date/Tim	ie		Date/Time



Chain-of-Custody Form

siremlab.com

180B Market Place Bivd Knoxville, TN 37922 1-865-291-4718 or 1-866-251-1747 3-9033

West Plant 2	· Ž	Project # _	6130	1							Anai	vele	62.4				
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CH LAN JAME	State/Province	rneu	Day County	uite	2/0				5		2 Di	arbor		#15			2. Other
*Email Address Dino. 2 acle AE Address (Straet) One Jane City Menst *Phone # 7/1/2001	New York			<i>/</i> ພ		э рис	FGA	DHB	: DHG	SRB	itty Ac	hydrox	y Stud	#			3. Other
136- 866-	· 6211/2					Gene-Trac	Gene-Trac FGA	Gene-Trac DHB	Gene-Trac DHGM	Gene-Trac SRB	Volatile Fatty Acids	Dissolved hydrocarbon gases	Treatability Study	立			4. Other
Signature Usau	moders Susan Momas *Sampler's Printed Susan Momas				25	Ge	Gen	Gen	Gen	Gen	Vota	Diss	Trea	>			6. Other
Client Sample		Sa Date	Time	VTALS	# of Containers												Other Information
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Data /Time	April·13.22	1 1 1 1	Date/Time			Date	/Time					Date/Tim	ie .				Date/Time
Distribution: White return to Originator Yellow-Li	Bb Copy: Pink Retained by Client	-			- 0.0		- 100										



Certificate of Analysis: Gene-Trac® Dehalococcoides Assay

Customer: Dino Zack, AECOM **SiREM Reference:** S-9033

Project: West Plant 2 Report Date: 20-Apr-22

Customer Reference: 60676130-1 Data Files: QS3A-DHCT-TM-QPCR-2009

QS3A-DB-DHC-TM-QPCR-1322

Table 1a: Test Results

Sample ID	Del	halococcoides (Dhc)
	Percent Dhc ⁽¹⁾	Enumeration/Liter ⁽²⁾
MW-16S	31 - 67 %	5 x 10 ⁹

See final page for notes.

Analyst:

Melody Vachon, M.Sc.

Laboratory Technician II

Approved:

Jenniter Wilkinson

Senior Laboratory Technician II



Certificate of Analysis: Gene-Trac® Functional Gene Assay

Customer: Dino Zack, AECOM SiREM Reference: S-9033

Project: West Plant 2 Report Date: 20-Apr-22

Customer Reference: 60676130-1 Data Files: iQ5B-FGA-QPCR-1324

iQ5B-DB-FGA-QPCR-1014

Table 1b: Test Results

Sample ID		eductase vcrA)		C Reductase	TCE Reductase (tceA)			
	Percent vcrA (3)	Gene Copies/Liter	Percent bvcA (3)	Gene Copies/Liter	Percent tceA (3)	Gene Copies/Liter		
MW-16S	33 - 71 %	6 x 10 ⁹	0.3 - 0.8 %	4 x 10 ⁷	1 - 3 %	2 x 10 ⁸		

See final page for notes.

Analyst:

Melody Vachon, M.Sc.

Laboratory Technician II

Approved

Jennifer Wilkinson

Senior Laboratory Technician II



Certificate of Analysis: Gene-Trac® Dehalobacter Assay

Customer: Dino Zack, AECOM SiREM Reference: S-9033

Project: West Plant 2 Report Date: 20-Apr-22

Customer Reference: 60676130-1 Data Files: iQ5B-DHB-QPCR-0592

iQ5B-DB-DHB-QPCR-0398

Table 1c: Test Results

Sample ID		alobacter (Dhb)
	Percent Dhb ⁽¹⁾	Gene Copies/Liter
MW-16S	0.07 - 0.2 %	1 x 10 ⁷

See final page for notes.

Analyst:

Melody Vachon, M.Sc. Laboratory Technician II Approved:

Jennifer Wilkinson

Senior Laboratory Technician II

Table 2: Detailed Test Parameters, Test Reference S-9033

Customer Sample ID	MW-16S
SiREM Dhc Test ID	DHC-23412
SIREM FGA Test ID	FGA-11588
SiREM Dhb Test ID	DHB-2897
Date Sampled ⁽⁴⁾	7-Apr-22
Matrix	Groundwater
Date Received ⁽⁴⁾	8-Apr-22
Sample Temperature	6.7 °C
Filtration Date ⁽⁴⁾	8-Apr-22
Volume Used for DNA Extraction	100 mL
DNA Extraction Date	14-Apr-22
DNA Concentration in Sample (extractable)	29,175 ng/L
PCR Amplifiable DNA	Detected
Dhc qPCR Date Analyzed	18-Apr-22
FGA qPCR Date Analyzed	15-Apr-22
Dhb qPCR Date Analyzed	19-Apr-22
Laboratory Controls (see Tables 3, 4 & 5)	Passed
Comments	

Table 3: Gene-Trac Dhc Control Results, Test Reference S-9033

			Dhc 16	S rRNA	
Laboratory Control	Analysis Date	Control Description	Spiked Gene Copies per Liter	Recovered Gene Copies per Liter	Comments
Positive Control Low Concentration	18-Apr-22	Genomic DNA (CSLD-1647)	3.9 x 10 ⁶	5.1 x 10 ⁶	Passed
Positive Control High Concentration	18-Apr-22	Genomic DNA (CSHD-1647)	5.2 x 10 ⁸	7.6 x 10 ⁸	Passed
Extraction Control	21-Apr-22	Extraction Control (KB-0866)	4.2 x 10 ¹⁰	4.5 x 10 ¹⁰	Passed
DNA Extraction Blank	18-Apr-22	Sterile Water (FB-4061)	0	1.0 x 10 ³ U	Passed
Negative Control	18-Apr-22	Reagent Blank (TBD-1606)	0	1.0 x 10 ³ U	Passed

Table 4: Gene-Trac FGA Control Results, Test Reference S-9033

			VC	rA	bv	cA	tc	e <i>A</i>	
Laboratory Control	Analysis Date	Control Description	Spiked Gene Copies per Liter	Recovered Gene Copies per liter	Spiked Gene Copies per liter	Recovered Gene Copies per liter	Spiked Gene Copies per liter	Recovered Gene Copies per liter	Comments
Positive Control Low Concentration	15-Apr-22	Genomic DNA (CSLF-1192)	6.7 x 10 ⁶	7.7 x 10 ⁶	5.1 x 10 ⁵	2.4 x 10 ^{5 (5)}	4.9 x 10 ⁵	3.2 x 10 ⁵	See Note 5
Positive Control High Concentration	15-Apr-22	Genomic DNA (CSHF-1192)	7.8 x 10 ⁸	1.0 x 10 ⁹	5.4 x 10 ⁷	4.8 x 10 ⁷	5.1 x 10 ⁷	6.7 x 10 ⁷	Passed
DNA Extraction Blank	15-Apr-22	Sterile Water (FB-4061)	0	1.0 x 10 ³ U	0	1.0 x 10 ³ U	0	1.0 x 10 ³ U	Passed
Negative Control	15-Apr-22	Reagent Blank (TBF-1163)	0	1.0 x 10 ³ U	0	1.0 x 10 ³ U	0	1.0 x 10 ³ U	Passed

Table 5: Gene-Trac Dhb Control Results, Test Reference S-9033

			Dhb 16	S rRNA	
Laboratory Control	Analysis Date	Control Description	Spiked Gene Copies per Liter	Recovered Gene Copies per Liter	Comments
Positive Control Low Concentration	19-Apr-22	Genomic DNA (CSLDB-0551)	6.2 x 10 ⁶	4.8 x 10 ⁶	Passed
Positive Control High Concentration	19-Apr-22	Genomic DNA (CSHDB-0551)	8.5 x 10 ⁷	1.1 x 10 ⁸	Passed
DNA Extraction Blank	19-Apr-22	Sterile Water (FB-4061)	0	1.0 x 10 ³ U	Passed
Negative Control	19-Apr-22	Test Reagent Blank (TBDB-0551)	0	1.0 x 10 ³ U	Passed

Notes:

Dhc = Dehalococcoides

vcrA = VC reductase

bvcA = BAV1 VC reductase

tceA = TCE reductase

FGA = functional gene assay

Dhb = Dehalobacter

J The associated value is an estimated quantity between the detection limit and quantitation limit.

U Not detected, associated value is the detection limit.

B Analyte was detected in the method blank within an order of magnitude of the test sample.

E Extracted genomic DNA was not detected in the sample.

I Sample inhibited the test reaction based on inability to PCR amplify extracted DNA with universal primers.

ng/L = nanograms per liter

mL = milliliter

NA = not applicable

ND = not detected

DNA = deoxyribonucleic acid

16S rRNA = 16S ribosomal ribonucleic acid

PCR = polymerase chain reaction

qPCR = quantitative PCR

°C = degrees Celsius

¹ Percent *Dehalococcoides* (Dhc) or *Dehalobacter* (Dhb) in microbial population. This value is calculated by dividing the number of Dhc or Dhb 16S ribosomal ribonucleic acid (rRNA) gene copies by the total number of bacteria as estimated by the mass of DNA extracted from the sample. Range represents normal variation in Dhc enumeration.

² Based on quantification of Dhc or Dhb 16S rRNA gene copies. Dhc or Dhb are generally reported to contain one 16S rRNA gene copy per cell; therefore, this number is often interpreted to represent the number of Dhc or Dhb cells present in the sample.

³ Percent of functional gene in microbial population. This value is calculated by dividing the functional gene copies quantified by the total number of estimated prokaryotes in the sample (based on the total quantity of DNA extracted from the sample). A value of 100% would suggest that all microbes in the sample contain the gene.

⁴ Samples are stabilized by freezing at -80 °C upon sample reception (field filters) or in-lab filtration (groundwater). Hold time not exceeded if sampling date is within 14 days of date received or filtration date.

⁵ Control was outside recovery limit guidelines (+/- 50%), however, test results are deemed acceptable if one of two positive controls fall within the recovery limit guidelines.



Mandatory Fields

Chain-of-Custody Form

siremlab.com

180B Market Place Blvd Knoxville, TN 37922 1-865-291-4718 or 1-866-251-1747 5-9033

*Project Name West Piant 2 *Project Manager	*Project # 6	1	Analysis											
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*Email Address. Address (Street) City Anhast *Phone # 716 866 8222 *Sample In State Province State St	Co	ountry (S	U	오	4	<u> </u>	W QW	<u>a</u>	Acids	rocarb	udy	#1S	3. Other
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Chain-of-Custody Form

siremlab.com

180B Market Place Bivd Knoxville, TN 37922 1-865-291-4718 or 1-866-251-1747 3-9033

West Plant 2	*Project #	16130	. /							Ana	lysis	-					
Project Manager DINO Zack	*Company	COM	- (\vdash	T				7.10	, y 318			T			
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Appendix F IC/EC Certification

Project number: 60676130-1



Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Site No.	915149	Site Details	Box 1	
Site Name	Scott Aviation			
	ss: 225 Erie Street Lancaster e	Zip Code: 14086		
Site Acrea				
Reportir	ng Period: July 15, 20	1 9 to July15, 202 0		
	April 9, 20	21 to April 8, 2022		
			YES	NO
1. Is the in	nformation above corre	ect?		X
If NO, i	nclude handwritten ab	ove or on a separate sheet.		
	me or all of the site property amendment during the	operty been sold, subdivided, merged, or under his Reporting Period?	gone a	X
	ere been any change on NYCRR 375-1.11(d))?	of use at the site during this Reporting Period		X
	ny federal, state, and/ t the property during th	or local permits (e.g., building, discharge) been his Reporting Period?	issued	X
		estions 2 thru 4, include documentation or e en previously submitted with this certification		
5. Is the s	ite currently undergoir	ng development?		X
		х Е		
			Box 2	
			YES	NO
	current site use consist ercial and Industrial	tent with the use(s) listed below?	X	
	ICs/ECs in place and f	functioning as designed?	X	
7. Are all			helow and	
		ITHER QUESTION 6 OR 7 IS NO, sign and date ETE THE REST OF THIS FORM. Otherwise con		
	DO NOT COMPLE		tinue.	ues.

SITE NO. 915149

Box 3

Description of Institutional Controls

Parcel

Owner

104.16-4-8.1

AVOX Systems

Institutional Control

Monitoring Plan O&M Plan

A long-term monitoring program is in place and includes: (1) quarterly sampling of groundwater to monitor the effectiveness of the treatment systems, and (2) monthly sampling of the treatment systems to ensure compliance with discharge limits.

Box 4

Description of Engineering Controls

<u>Parcel</u>

Engineering Control

104.16-4-8.1

Groundwater Treatment System

Vapor Mitigation Cover System

Groundwater Containment

In accordance with the ROD, a 200-foot long groundwater collection trench was constructed approximately 90 feet west of Plant 2 during February 1996. The purpose of the trench is to maintain hydraulic control of VOC-impacted groundwater. The groundwater treatment system consists of a low-profile shallow tray air stripper (AS) unit. Treated water from the AS unit is discharged under a City of Buffalo Pollutant Discharge Elimination System permit. The groundwater treatment system began operation on March 1 1996.

The groundwater collection trench system was subsequently combined with a dual phase extraction system installed at the Site between February and May 2004. The combined remediation system began operation on May 14, 2004.

A long-term operation and maintenance program is in place and includes: (1) long-term operation and maintenance of the groundwater collection and treatment system, and (2) long-term operation and maintenance of the dual phase extraction system.

DOX 0

Periodic Review Report (PRR) Certification Statements			
I certify by checking "YES" below that:			
 a) the Periodic Review report and all attachments were prepared under the dreviewed by, the party making the certification; 	irection of	, and	
 b) to the best of my knowledge and belief, the work and conclusions described are in accordance with the requirements of the site remedial program, and gengineering practices; and the information presented is accurate and compete. 			1
	X		
 If this site has an IC/EC Plan (or equivalent as required in the Decision Document), or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below following statements are true: 			I
(a) the Institutional Control and/or Engineering Control(s) employed at this sit since the date that the Control was put in-place, or was last approved by the I			
(b) nothing has occurred that would impair the ability of such Control, to prote the environment;	ect public	health and	l
(c) access to the site will continue to be provided to the Department, to evaluremedy, including access to evaluate the continued maintenance of this Continued			
(d) nothing has occurred that would constitute a violation or failure to comply Site Management Plan for this Control; and	with the		
(e) if a financial assurance mechanism is required by the oversight document mechanism remains valid and sufficient for its intended purpose established in			
	YES	NO	
	X		
IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continu			
A Corrective Measures Work Plan must be submitted along with this form to address	s these is	sues.	
Signature of Owner, Remedial Party or Designated Representative Date	:		

IC CERTIFICATIONS SITE NO. 915149

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Dino Zack, PG, STS	at One John James Audubon Parkway, Amhers	t, NY 14228
print name	print business address	
am certifying on behalf of Scott	Figgie LLC (Owner or Remedial Party)	The part of the Land
for the Site named in the Site De	etails Section of this form.	
or	n behalf of Scott Figgie LLC June 3, 202	22
Signature of Owner, Remedial F Rendering Certification	Party, or Designated Representative Date	

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

(Required for PE)

print name

One John James Audubon Pkwy, Suite 210 Amherst, NY 14228
print business address

am certifying as a Qualified Environmental Professional

on behalf of Scott Figgie LLC
(Owner or Remedial Party)

on behalf of Scott Figgie LLC

Signature of Qualified Environmental Professional, for

Stamp

Date

the Owner or Remedial Party, Rendering Certification

aecom.com

