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May 20, 2025

Your Reference Site 915043

Our Reference 60411174

Megan Kuczka Environmental Program Specialist – 2 Division of Environmental Remediation New York State Department of Environmental Conservation 700 Delaware Ave. Buffalo, NY 14209

2024 Periodic Review Report

Pfohl Brothers Landfill, Town of Cheektowaga, New York Site 915043

Dear Ms. Kuczka

Enclosed is the 2024 Periodic Review Report for the Pfohl Brothers Landfill in Cheektowaga, New York for the reporting period January 1, 2024 to January 1, 2025. AECOM has prepared this report on behalf of the Town of Cheektowaga. The Annual Report for the January-December 2024 period is submitted as an attachment to this report. Additionally, the Data Applicability Report is included. Portions of the PRR and Annual Report were revised based on comments received via email from you on April 25, 2025.

If you have any questions on this report, please feel free to contact me.

Yours sincerely,

Robert J. Murphy Robert J. Murphy, PG

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cc: Patrick Bowen, P.E. - Town of Cheektowaga



2024 Periodic Review Report

Pfohl Brothers Landfill

Town of Cheektowaga

Project number: 60411174

May 20, 2025

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- Attachment C Photograph Log
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1. Introduction

This Periodic Review Report (PRR) is being submitted for the Pfohl Brothers Landfill Site (Site) to document the implementation of, and compliance with, the site-specific site management requirements stated in the Operation and Maintenance (O&M) Plan, with an errata sheet that was approved August 2, 2024. The PRR was prepared using the guidance presented in Section 6.3(b) of New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER)-10 *Technical Guidance for Site Investigation and Remediation*.

1.1 Background

The Pfohl Brothers Landfill Site (NYSDEC Site No. 915043) is a landfill located on the north and south sides of Aero Drive in the Town of Cheektowaga (Town), New York State, Erie County. The site is located in a commercial area just west of Transit Road. The landfill operated between 1932 and 1971, receiving household and industrial wastes. The industrial waste included paints, waste solvents, thinners, pine tar pitch, cellulose, rubber, scrap metal and phenolic tars.

A Remedial Investigation and Feasibility Study was completed in 1991 to evaluate the environmental quality of the site and surrounding area. The data showed that on-site soils, groundwater, seeps, and sediments were contaminated with volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals. The data did not show any significant off-site impact. A Record of Decision (ROD) was issued in 1992 requiring the landfill to be consolidated and closed. A second ROD was issued in 1994 which stipulated the removal of the northern portion of the site (located immediately south of Interstate 90) from the site description. The ROD also stated that there will be no action in regard to off-site groundwater.

The final remedial design for the site was completed in 2001. The remedial construction consisted of waste consolidation; capping landfills on either side of Aero Drive; providing leachate collection around these areas; restoring wetlands; and fencing the landfill. Work started in 2001 and was completed in 2002. The consolidated landfill was reduced to approximately 94 acres (liner cap area only), the approximate area of the landfill (liner cap and soil cover) inside the boundary fences is 102.51 acres. The Potentially Responsible Parties (PRPs) have filed deed restrictions. The O&M Plan was approved in March 2006 and is being implemented by the Town.

1.2 Effectiveness of Remedial Program

During 2024, the capping and remedial action continued to successfully prevent exposure of buried waste to human health or environmental receptors. Effectiveness has been demonstrated through maintenance of the landfill cap, effective hydraulic control of groundwater beneath the cap, and regular groundwater monitoring and sampling.

1.3 Compliance

The management of the site is in compliance with the O&M Plan. Institutional controls in the form of deed restrictions remain in place. There were no changes of land, groundwater or surface water use, and no excavations occurred onsite during the Certifying Period.

1.4 Recommendations

No changes to the operation, maintenance and monitoring of the site are recommended at this time.

2. Site Overview

2.1 Site Description

The boundaries of the site are shown on Figure 2-1. The total capped area is approximately 102.51 acres. The site is located immediately southwest of the Interstate 90 Ramp at Transit Road in the Town of Cheektowaga. The east/west Aero Drive bisects the site. Each of the two portions of the landfill are covered with a cap comprised of a gas venting

layer, a low permeability synthetic membrane, and a barrier protection fill layer. Surrounding the entire site is a groundwater/leachate collection system consisting of a series of collection trenches that drain into six wet wells (WW-01 to WW-06). The extent of the landfill cap system and the groundwater/leachate collection system is also depicted on Figure 2-1. Leachate and groundwater collected in the wet wells is pumped via submersible pumps to a 15-inch sanitary sewer line on the south side of Aero Drive. This sanitary sewer, installed as part of the remedial action, connects to the existing 15-inch sanitary sewer on Rein Road south of Aero Drive. The collected groundwater/leachate discharges to the sanitary sewer under a permit from the Buffalo Sewer Authority (BSA Pollutant Discharge Permit No. 22-07-CH016).

2.2 Chronology

The principal elements of the remedial action were the consolidation of waste materials, construction of a landfill cap, and construction of a perimeter leachate collection system. Construction of the remedial action was completed in 2002.

O&M started in 2002 upon completion of construction. These efforts are performed in accordance with the O&M Plan issued as draft in 2002 and approved as final in 2006. An errata sheet for the O&M Plan was prepared and approved in 2024. Based on the results of the first three years of surface water, sediment and groundwater monitoring, the surface water/sediment sampling was discontinued in 2008, and the list of parameters evaluated during groundwater sampling was reduced in 2006 (limiting the list of VOCs, SVOCs, and metal parameters) and 2007 (discontinuing dioxin and radionuclide analyses).

3. Remedy Performance, Effectiveness and Protectiveness

The principal elements of the O&M are:

- Groundwater monitoring
- Discharge monitoring
- Hydraulic monitoring
- Wetlands monitoring
- General physical and mechanical maintenance.

The Town submits O&M reports to NYSDEC once per year reporting on the performance, effectiveness, and protectiveness of each of these elements. The report covering the calendar year of 2024 is attached to this PRR as Attachment A. A data applicability report for the Fall 2024 groundwater sample analytical results is also attached as Attachment B. A summary of the findings of performance, effectiveness, and protectiveness for 2024 is presented in the sections below.

3.1 Groundwater Monitoring

As the O&M contractor for the Town, AECOM, USA Inc. (AECOM), formerly URS Corporation (URS) has performed 40 rounds of groundwater sampling to date. The most recent sampling was conducted in November 2024. Results of this sampling continue to show no relevant impacts to groundwater from the landfill.

No VOCs were detected above the applicable water quality standards at any sampled location.

SVOCs were non-detect and/or below the water quality standards, with only one exception during the 2024 event. The SVOC bis(2-ethylhexyl)phthalate was detected at a concentration above its water quality standard at location GW-07D, where it was present at a concentration of 84 micrograms per liter (μ g/L), above the water quality standard of 5 μ g/L. However, this anomalously high result is likely due to the replacement of the polyethylene lined stainless steel leader on the sampling bailer during the November 2022 sampling event, since bis(2-ethylhexyl)phthalate is a manufactured chemical that is commonly added to plastics to make them flexible. The concentration reduced by any order of magnitude since the prior year. Prior to the next sampling event, the polyethylene lined stainless steel leader at GW-07D will be further rinsed and wiped clean to prevent further unintended cross-contamination and potential exceedances for bis(2-ethylhexyl)phthalate.

The metals iron, magnesium, manganese, and sodium exceeded the water quality standards in most site wells, but which are naturally occurring elements and not expected to be sourced from the landfill. The metal chromium was detected in three wells (GW-01D, GW-07S, and GW-07D) at concentrations above its Class GA water quality standard of 0.05 milligrams per liter (mg/L). Nickel was also present at a concentration exceeding its Class GA water quality standard in GW-07S. Lead was also detected above its water quality standard in well GW-07D. However, the collection of filtered samples from this well indicate that these exceedances are related to sample turbidity in the sample and are not indicative of dissolved groundwater issue. Both filtered and unfiltered samples will be collected from this well again in 2025.

No significant changes in metals concentrations were observed when compared to previous year's analytical results. Results were within the historical range of concentrations observed for these metals. The attached annual report presents the 2024 data in tables and graphs.

3.2 Surface Water/Sediment Sampling

Surface water and sediment sampling was discontinued in 2008 after three years of sampling showed that no siterelated contaminants were present in these media. This sampling was eliminated in accordance with the O&M Plan as approved by NYSDEC.

3.3 Discharge Monitoring

Groundwater discharge monitoring was performed on a quarterly basis during 2024. The permit requires quarterly sampling and analysis of select metals (i.e., barium, cadmium, chromium, copper, lead, nickel, and zinc) and total suspended solids. The pH and 24-hour flow are also recorded in the field during each event.

The parameter values in the effluent were below the discharge criteria for all quarterly sampling events conducted in 2024. The results of the sampling are reported in the attached annual report.

On May 21, 2024, AECOM was informed by Eurofins Laboratory-Buffalo that there was a lapse in their New York State Department of Health (NYSDOH) National Environmental Laboratory Accreditation Program (NELAP) Certification for the analysis of metals by Method 200.7. This lapse occurred while the quarterly effluent samples for the March 2024 were analyzed and reported. Inasmuch as the lapse was administrative in nature and the results were in line with historical results, there is no reason to suspect the accuracy of the results. Notification of the laboratory oversight was made to the BSA and NYSDEC.

3.4 Hydraulic Monitoring

Hydraulic monitoring was performed on a quarterly basis during 2024. Hydraulic monitoring is performed by measuring the water elevation in each of the six wet wells and in ten manholes associated with the perimeter collection system and comparing each of these elevations with the groundwater elevations in nearby monitoring wells and staff gauges adjacent to each wet well or manhole. Two staff gauges (SG-01 and SG-02) and 19 monitoring wells are measured during each event. Hydraulic control is demonstrated by groundwater levels outside the collection system that are higher than the levels measured in the corresponding wet well or manhole for each measurement date (i.e., a downward vertical hydraulic gradient).

The vertical hydraulic gradient was downwards relative to the groundwater collection system for every quarterly measurement taken during 2024, with only one exception. These data demonstrate that the collection system is largely operating as designed.

3.5 Wetlands Monitoring

The monitoring of wetlands mitigation measures has not been performed as originally planned in the O&M Plan. Initially, the wetlands species planted for mitigation fared poorly due to trampling from geese and deer. Fences were erected in 2004 to keep this wildlife out. Some wetland vegetation was also lost during landfill cap mowing in 2005 when the mowing contractor mowed a greater area than had been specified. The wetland vegetation species were replanted in 2005. However, in the time since construction ended in 2002, the Phragmites sp. vegetation that is quite

abundant in this area had spread and established itself throughout the areas formerly disturbed during construction. Phragmites sp. does not provide robust food source for wildlife but does act to stabilize soil in the interface zone between the landfill and the existing pond and wetlands. As such, monitoring of the planted wetland mitigation species is no longer performed.

3.6 General Physical and Mechanical Maintenance

The Town performs general physical and mechanical maintenance of the Site, as needed. Example maintenance items are routine maintenance and replacement of pumps and instrumentation used for groundwater/leachate collection, annual cap mowing, snow plowing, etc. A summary of the general maintenance activities performed during 2024 is provided in the attached annual report.

During the annual groundwater sampling event, AECOM inspects the work areas for evidence of ground burrowing activity. No animal burrows were observed at the landfill in 2024. No materials were imported to the site during the Certifying Period.

The Town shuts down the wet well pumps during wet weather conditions as necessary at various times throughout the year. Such actions were only taken upon the request of the BSA during heavy storm events in order to reduce the hydraulic load on the BSA treatment system during such events (i.e., the system is shutdown when the instantaneous flow rate at the Town's Main Pump Station exceeds 30 million gallons per day [mgd]). Shutdown events are recorded and included with the monthly flow data in Appendix B of the attached annual report, as previously requested by NYSDEC. The time the pumps are shut down is noted as "inhibit", followed by an "enable" when they are turned back on. Shutdown events of this nature occurred on 42 occasions in 2024. The Town monitors flow and the weather to ensure total flow have dropped and will remain below the 30 mgd action level before reactivating the Site wells. Depending on the magnitude of the runoff/storm event, this sometimes takes several days. Additionally, there were temporary power outages on April 19, 2024 (5 minutes), May 18, 2024 (50 minutes), and October 17, 2024 (5 minutes). The system operated normally at all other times.

Some drainage issues (ponded water and rills) were identified during a site walk for the U.S. Environmental Protection Agency (EPA) five-year review in October 2020. The Town plans to address the drainage issues on the cap and scarify the access road to address vegetation and overgrowth in 2025. The Town may also choose to re-stone the access road. The drainage issues and the access road will be addressed when weather and site conditions permit. The drainage and access road work will most likely be done by an outside contractor under the Town's annual public works contract. The work will need to be included in the scope of work for the public works contract when the Town puts the contract out to bid. In addition, the Town will likely need to request additional funding and receive approval within their 2025 Pfohl Brother's site budget to cover this work.

Some photos of general site conditions were taken during the annual groundwater sampling event and are included in Attachment C.

4. IC/EC Plan Compliance

There is no formal Institutional Control/Engineering Control (IC/EC) plan for this site. However, there are IC/ECs in place, and they are functioning as intended. These are discussed below.

4.1 Institutional Controls

ICs consist of restrictions on land use for the various parcels that comprise this site. The parcels and their restrictions are listed on the attached Site Management PRR Notice Institutional and Engineering Controls Certification Form (Attachment D) and were included in the Declaration of Covenants and Restrictions for each parcel. The restrictions address building use, groundwater use, surface water use, and land use by location as summarized below:

A. Entire Site

i) Extraction of Groundwater. Until and unless the Department determines that groundwater meets applicable quality criteria, no groundwater wells or other structures shall be installed on the Premises for the purpose of extracting groundwater for any potential use, other than for the

purpose of implementing, monitoring, and maintaining the remedial action. This prohibition includes any dewatering required for the construction or maintenance of a building or other structure at the Premises. Any dewatering required for the installation of a public utility by the associated authorities or for the repair, reconstruction, or expansion of public roads or highways located within the area covered by the prohibition shall be subject to advance written approval by the Department and, if approved, shall be excluded from this prohibition; and

ii) Collection and Use of Surface Water. No surface water cisterns or other surface water collection devices or structures shall be constructed or installed at the Premises, including surface water retention ponds or catchments, unless such surface water retention ponds or catchments are lined with an impermeable membrane and otherwise designed and constructed to minimize infiltration, and only then subject to the written approval of the Department.

B. Capped Areas

In addition to the restrictions listed in Paragraph A, that part of the Premises located within the areas designated as "Capped Area" shall also be subject to the following restrictions.

- Access and Use. There shall be no access to or use of the Capped Areas, absent prior written consent of the Department. There shall be erected and maintained a security fence enclosing the Capped Area and the placement of appropriate signs, determined from time to time by the Department, as being necessary;
- ii) Development. There shall be no development of the Capped Area that requires or causes disturbance of the cap system, including, but not limited to, the placement or construction of any building, underground utility, or structure;
- iii) Excavation. There shall be no excavation, removal, disturbance, or digging of any soil, except as may be approved by the Department in writing; and
- iv) Tree Planting. The planting of trees and shrubs, which may potentially breach the cap, is prohibited.
- C. Cleared Portion of Site Inside Groundwater Collection Area

In addition to the restrictions listed in Paragraph A, that part of the Premises located within the area designated as the "Cleared Portion of Site Inside Groundwater Collection Area" shall also be subject to the following restrictions.

- Development. That part of the Premises located in the Cleared Portion of Site Inside Groundwater Collection Area may be used for industrial and commercial use only, provided the prior written consent for any such use is given by the Department. Specifically prohibited are:
 - a. the use of any structure for residential dwellings, schools and childcare facilities;
 - b. basements and underground usable space; and
 - c. foundations requiring passive or active systems for waterproofing.

Furthermore, any development of any part of the Premises located in the Groundwater Collection Area shall be subject to the following restrictions:

- all structures must have active or passive controls designed to minimize the potential migration of gases and vapors from the subsurface to occupied portions of structures (e.g. vapor barriers, gas venting systems);
- all surface water must be directly and efficiently collected to systems that convey such water out of the Site groundwater collection area (i.e., beyond the groundwater collection system lines);
- c. exposed areas must be graded for positive drainage and vegetated with species selected to minimize potential infiltration;

- d. all parking and staging areas must be paved (gravel parking or staging areas being prohibited); and
- e. all paved areas must be designed with surface water collection and pavement crosssections that minimize potential infiltration.
- ii) Excavation. There shall be no excavation, removal, disturbance, or digging of any soil within 15 feet from the groundwater collection system lines.
- D. Cleared Portion of Site Outside Groundwater Collection Area

In addition to the restrictions listed in Paragraph A, that part of the Premises located within the area designated as the "Cleared Portion of Site Outside Groundwater Collection Area" shall also be subject to the following restrictions.

- i) Development. That part of the Premises located within the Cleared Portion of Site Outside Groundwater Collection Area may be used for industrial and commercial use only, provided the prior written consent for any such use is given by the Department. Specifically prohibited are:
 - a. the use of any structure for residential dwellings, schools and child care facilities;
 - b. basements and underground usable space; and
 - c. foundations requiring passive or active systems for waterproofing.
- ii) Excavation. There shall be no excavation, removal, disturbance, or digging of any soil within 15 feet from the groundwater collection system lines.
- ii) Excavation. There shall be no excavation, removal, disturbance, or digging of any soil within 15 feet from the forcemain.

There were no changes of use, groundwater or surface water use, and no excavations occurred onsite during the Certifying Period. Compliance with these ICs is evaluated by observation to see if any infringing activities are occurring on these parcels. These ICs remain in effect, as certified in Attachment D.

4.2 Engineering Controls

ECs consist of the landfill cap, fencing and access control, collection of the groundwater/leachate, and vapor mitigation. Compliance with these ECs is evaluated at a minimum through inspection of these elements during each annual monitoring event. In most cases, inspection is more frequent. For example, collection of groundwater/leachate is monitored continuously by Town personnel and effluent compliance reports are submitted quarterly to the BSA. These ECs remain in effect, as certified in Attachment D.

5. **Operation & Maintenance and Monitoring Plan Compliance**

The components of the O&M Plan are discussed above in Section 3.0. Summaries of O&M activities performed during 2024 are provided in the attached annual report as Attachment A.

The O&M activities show that the landfill and its groundwater/leachate collection system are operating as intended and receive repairs and maintenance as needed in a timely fashion. Analysis of the groundwater in monitoring wells and the effluent generated by the groundwater/leachate collection system show that no landfill contamination is migrating to these media, and therefore the wastes remain effectively contained.

6. Conclusions and Recommendations

The remedial action at the Pfohl Brothers Landfill Site is operating as designed and remains protective of human health and the environment.

Monitoring well GW-07D has routinely exhibited chromium, lead, and nickel exceedances of the applicable water quality standards. To evaluate if this is related to sample turbidity or dissolved groundwater flow, both filtered and

unfiltered samples for metals analysis were collected from this well in 2024. Results indicated that the exceedances are likely due to sample turbidity (See Attachment A). Both filtered and unfiltered samples for metals analysis will be collected again during the next sampling event planned for May 2025.

FIGURES



ATTACHMENTS

ATTACHMENT A January – December 2024 Annual Report



Annual Report Operation and Maintenance

January 2024 to December 2024 Pfohl Brothers Landfill

Town of Cheektowaga

Project number: 60411174

May 20, 2025

Delivering a better world

Quality information

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1. Introduction

This 2024 Annual Report is being submitted for the Pfohl Brothers Landfill Site (Site) to document the implementation of, and compliance with, the site-specific site management requirements stated in the Operation and Maintenance (O&M) Plan, with an errata sheet that was approved August 2, 2024. This report documents the activities conducted between January and December 2024, as required in Section 3.6 of the O&M Plan.

1.1 Background

The Pfohl Brothers Landfill is located on the north and south sides of Aero Drive in the Town of Cheektowaga, Erie County, New York (Figure 1-1). The site is a landfill, listed as Site No. 915043 on the New York State Department of Environmental Conservation (NYSDEC) registry of Inactive Hazardous Waste Disposal Site (IHWDS) Program. The landfill operated between 1932 and 1971, receiving household and industrial wastes. The industrial waste included paints, waste solvents, thinners, pine tar pitch, cellulose, rubber, scrap metal and phenolic tars.

A Remedial Investigation and Feasibility Study was completed in 1991 to evaluate the environmental quality of the site and surrounding area. The data showed that on-site soils, groundwater, seeps, and sediments were contaminated with volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals. The data did not show any significant off-site impact. A Record of Decision (ROD) was issued in 1992 requiring the landfill to be consolidated and closed. A second ROD was issued in 1994 which stipulated the removal of the northern portion of the site (located immediately south of Interstate 90) from the site description. The ROD also stated that there will be no action in regard to off-site groundwater.

The final remedial design for the site was completed in 2001. A Consent Order between NYSDEC and potentially responsible parties (PRPs) for closure of the site was signed in 2001 and included remedial action which commenced in 2001. Responsibility for implementing the remedial action was divided between a "steering committee" of industrial PRPs and the Town of Cheektowaga (Town). The steering committee responsibilities lay generally with the capital construction activities of the remedial construction. The remedial construction included consolidation of waste material, capping of the waste disposal and consolidation areas, and encircling the landfill areas with a groundwater collection system to prevent off-site migration. The Town, which was named as a PRP for disposal of municipal waste at the Pfohl Brothers Landfill when it was operating, was responsible for performing the operation and maintenance (O&M) activities of the groundwater collection system, pursuant to a settlement agreement between the Town and the steering committee.

1.2 Operation and Maintenance Activities

While remedial construction was substantially complete by late 2002, the final O&M Plan which was issued as a draft in 2002, was not approved by the NYSDEC until March 10, 2006. Nevertheless, the Town and its consultant (URS Corporation – New York [URS], now AECOM USA, Inc. [AECOM]) had assumed most of the operational responsibilities since 2002 and had assumed all of the O&M activities described in the O&M Plan in 2004. This includes a variety of general maintenance activities as outlined in Section 2, and sampling and other monitoring activities as outlined in Section 3.

This report is the 2024 Annual Report, as required in Section 3.6 of the O&M Plan.

2. General Maintenance Activities

Since completion of remedial construction activities in 2002, personnel from the Town's Engineering Department have performed general activities to ensure the physical operation of the landfill as intended by the design. The general maintenance activities performed by the Town from January through December 2024 included the following actions:

- Recorded the amount of groundwater discharged through the collection system daily. The flow rate displayed by each wet well pump at the time of daily inspection and the total cumulative volume of flow was recorded for each wet well (WW-01 to WW-06) on daily inspection sheets. A few examples of the daily inspection sheet for this reporting period are attached in Appendix A.
- The total cumulative effluent flow rates and volumes are summarized on a monthly basis. The monthly totals for the period, including graphs showing daily total discharge (in gallons) as a function of calendar day, are presented in Appendix B. Monthly flow totals are generally consistent with previous years.
- Shut down the wet well pumps during wet weather flow conditions as necessary at various times throughout the year. Such actions were only taken upon request of the Buffalo Sewer Authority (BSA) during heavy storm events in order to reduce the hydraulic load on the downstream BSA treatment system during such events. Shutdown events are recorded and included with the monthly flow data in Appendix B, as previously requested by NYSDEC. The time the pumps are shut down is noted as "inhibit", followed by an "enable" when they are turned back on. Shutdown events of this nature occurred on 42 occasions in 2024.
- Cleaned/replaced check valves as necessary (e.g., when wells exhibit negative flow readings) at all six (6) wet wells and replaced surge suppressors and fuses as needed for pump station instrumentation equipment.
- Inspected wet wells for excessive corrosion to critical equipment.
- Cleaned upper-level equipment and applied corrosion inhibitor fluid.
- Performed bimonthly site/security checks, data retrieval, and analysis.
- The following Control Building activities were completed:
 - Performed annual flow totals data collection and reset totalizer equipment,
 - Surge suppressor reset after numerous power outages,
 - Cleaned control room electronic components cabinets, and
 - Replaced the air filter in-kind.
- Contractor mowed the entire cap and trimmed along the perimeter chain-link fence.
- Monthly roadside (litter) debris and trash removal along Aero Drive.
- Plowed snow to access the Control Building when necessary.

There is a faulty level signal from wet well WW-03, such that the well has been bypassed since mid-2013 and run occasionally on manual mode to "exercise" the equipment. The remaining wet wells have been adequately pumping the levels down to their set points. The repair of the level signal at WW-03, which would require the entire communication run from that well to the control building to be excavated and replaced, is cost prohibitive and is not warranted at this time.

No additional repairs/maintenance issues need to be addressed at this time.

3. Monitoring Activities

The Town has retained AECOM to perform monitoring activities as outlined in Section 3.1 of the O&M Plan. Since January 2004, groundwater hydraulic monitoring (Section 3.1.1.2 of the O&M Plan) and effluent monitoring (Section 3.1.4 of the O&M Plan) have been performed on a quarterly basis; and, groundwater quality monitoring (Section 3.1.1.3 of the O&M Plan) has been performed on a semi-annual basis, until 2023, when it was approved to be changed to an annual basis.

A summary of the monitoring activities completed for the 2024 reporting period is presented in the following subsections. Quarterly activities were conducted in March, June, September and December 2024, and annual activities were conducted in November 2024. There are 19 groundwater monitoring wells, ten manhole monitoring points, two staff gauge points and six wet wells that are part of the monitoring activities. These sampling locations are shown on Figure 3-1.

3.1 Groundwater Hydraulic Monitoring

Groundwater and surface water elevations were monitored on a quarterly basis and during the annual groundwater quality monitoring event at all locations listed in Table 3.1 of the O&M Plan. The hydraulic monitoring data tables showing groundwater elevations are presented in Appendix C. Table C-1 lists the measured elevations and Table C-2 provides a comparison of the measured levels in the groundwater monitoring wells to the corresponding staff gauges, manholes and wet wells.

The data presented in Table C-2 indicate that the groundwater levels outside the collection system (in the groundwater monitoring wells and staff gauges) were higher than the levels measured in the corresponding wet wells or manholes during every monitoring event, with one exception. The water elevation in GW-34S, was slightly lower than the elevation of its corresponding point inside the collection system (WW-6) during the November 20, 2024 measuring event. This demonstrates that the collection system is largely operating as designed since it is creating a groundwater depression inside the collection system. A groundwater contour map was generated for the November 2024 event and is presented as Figure 3-2. Since the design of the landfill consists of an impermeable very flexible polyethylene (VFPE) geomembrane liner keyed into clay surrounding the entire landfill, separate contours were generated for the monitoring points within the liner system (i.e., wet wells and manholes) and the monitoring points outside the liner system (i.e., monitoring wells and staff gauges).

3.2 Groundwater Quality Monitoring

Groundwater sampling was conducted during the annual monitoring event between November 20 and November 22, 2024, at all overburden and bedrock wells listed in Table 3.2 of the O&M Plan (as listed in Table 3-1 attached to this report). Figure 3-1 shows the well locations.

All wells were purged and sampled for VOCs, SVOCs and metals using dedicated/ disposable equipment. Field water quality parameters (i.e., pH, specific conductivity, temperature, dissolved oxygen, oxidation reduction potential, and turbidity) were measured during the purging process. Low flow sampling techniques were used at all wells, with the exception of wells with low recharge rates which used passive diffusion bags (PDBs).

PDBs were placed in three monitoring wells with low recharge rates (GW-04S, GW-07S, and GW-07D) on September 23, 2024. The PDBs were removed from the wells during the November 2024 sampling event, and the water was poured into the appropriate sample containers for laboratory analysis of VOCs. Following removal of the PDBs, the three wells were purged dry. Samples for SVOCs and metals were collected after water levels recovered (the next day for monitoring wells GW-07S and GW-07D and later the same day for monitoring well GW-04S). In addition, during this event, a filtered metals sample was collected from GW-07D.

Purge logs with water quality measurements and sample collection summary sheets are provided in Appendix D. Following collection, the samples were packed with ice in coolers and transported under chain-of-custody control to Eurofins Buffalo, an analytical laboratory in Amherst, New York.

The groundwater samples were analyzed for the VOCs, SVOCs, and metals listed in Table 3.2 of the O&M Plan, as revised in the August 1, 2024 Errata Sheet (included as Table 3-1 in this report).

3.2.1 Laboratory Report

The groundwater analytical data package was prepared by Eurofins Buffalo in accordance with NYSDEC Category A deliverable requirements. A limited data review was performed by an AECOM chemist in accordance with the following United States Environmental Protection Agency (USEPA) guidelines:

- Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SW-846 Method 8260B & 8260C, SOP HW-24, Rev. 4, October 2014;
- Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SW-846 Method 8270D, SOP HW-22, Rev. 5, December 2010;
- ICP-AES Data Validation, SOP HW-3a, Rev. 1, September 2016; and
- Mercury and Cyanide Data Validation, SOP HW-3c, Rev. 1, September 2016.

Qualifications applied to the data include "J" (estimated concentration) and "U" (not detected).

AECOM prepared a Data Applicability Report (DAR) following the guidelines provided in NYSDEC Division of Environmental Remediation (DER-10) Technical Guidance for Site Investigation and Remediation, Appendix 2B, dated May 2010. The DAR dated December 2024 is submitted separately from this report. AECOM also uploaded the validated data onto the NYSDEC EQUIS database on February 24, 2025.

3.2.2 Results

Table 3-2 of this report presents the groundwater sample results compared to the NYSDEC Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations Class GA water quality standards.

No VOCs were detected at concentrations above the Class GA water quality standards at any sampled location.

One SVOC, bis(2-ethylhexyl)phthalate, was detected at concentrations above its respective Class GA water quality standard. Bis(2-ethylhexyl)phthalate was present in well GW-07D at a concentration of 84 micrograms per liter (μ g/L), above the water quality standard of 5 μ g/L. However, this anomalously high result is likely due to the replacement of the polyethylene lined stainless steel leader on the sampling bailer during the November 2022 sampling event, since bis(2-ethylhexyl)phthalate is a manufactured chemical that is commonly added to plastics to make them flexible. The result was an order of magnitude lower than the previous sampling event. Prior to the next sampling event, the polyethylene lined stainless steel leader at GW-07D will be further rinsed and wiped clean to prevent further unintended cross-contamination and potential exceedances for bis(2-ethylhexyl)phthalate.

The metals iron, magnesium, manganese, and/or sodium exceeded their Class GA water quality standards in most site wells, but they are naturally occurring elements and not expected to be sourced from the landfill. The metal chromium was detected in three wells (GW-01D, GW-07S, and GW-07D) at concentrations above its Class GA water quality standard of 0.05 milligrams per liter (mg/L). Nickel was also present at a concentration exceeding its Class GA water quality standard in GW-07S. The sample from well GW-07D also had concentrations lead above its respective Class GA water quality standard.

Monitoring well GW-07D has routinely exhibited chromium, lead, and nickel exceedances of the applicable water quality standards. To evaluate if this is related to sample turbidity or dissolved groundwater flow, both filtered and unfiltered samples for metals analysis were collected from this well during this sampling event. The filtered results are shown on Table 3-3 and indicate a significant reduction in concentrations with filtering. Only sodium was still present as dissolved metals at concentrations exceeding its Class GA water quality standard.

3.2.3 Comparison to Historical Results

3.2.3.1 Organics

The 2024 organics results are consistent with historical results; there have been very few and infrequent detections of most VOCs/SVOCs. 1,4-Dichlorobenzene has frequently been detected at low levels in GW-03D, with estimated concentrations ranging from 2.4 to 4.2 µg/L over the last several years. The bis(2-ethylhexyl)phthalate result in GW-07D was anomalously high in 2024 and was likely due to the replacement of the polyethylene lined stainless steel leader on the stainless steel sampling bailer during the November 2022 event.

3.2.3.2 Metals

No significant changes in metals concentrations were observed during 2024 when compared to previous analytical results. The concentrations of iron, magnesium, manganese, and sodium in most site wells were similar to the concentrations found during previous sampling events.

Sodium concentrations were generally elevated in bedrock wells (GW-01D, GW-03D, GW-08D, and GW-26D) and shallow wells adjacent to roads (GW-01S). The sodium concentrations were also elevated in wells GW-03S and GW-08SR. The higher sodium concentrations in the bedrock wells may be attributed to the bedrock composition, and the elevated concentrations in the shallow wells may be the result of seasonal road de-icing activities.

3.2.4 Trend Analysis

A trend analysis of groundwater parameters that historically have exceeded Class GA water quality standards was performed and is presented graphically in Figures E-1 through E-19 of Appendix E.

A review of the trend analysis indicated that no significant changes or trends in concentrations of any of the parameters exceeding water standards have occurred over the sampling events in recent years. Various metal parameters exceeded the Class GA water quality standards historically, however, only the parameters that have recently exceeded are discussed below.

3.2.4.1 Organics

The Mann-Kendall Nonparameteric Test for Trend was used to determine if there was a trend over the last 20 events for the following parameters:

- 1,4-Dichlorobenzene in GW-03D (on Figure E-3), and
- Bis(2-ethylhexyl)phthalate in GW-07D (on Figure E-7).

The test indicated there was an upward trend for both parameters at each respective well.

As previously discussed, the result for bis(2-ethylhexyl)phthalate in GW-07D was anomalously high during the last several events since changing out the polyethylene lined stainless steel leader at this well, however, the concentration has been dropping an order of magnitude each sampling event.

3.2.4.2 Metals

The Mann-Kendall Nonparameteric Test for Trend was used to determine the trends over the last 20 events for various metal parameters, as summarized in the following table (note, "--" indicates no discernable trend, "xx" indicates the parameter has never been above criteria at that location, and "*" indicates that there is seasonal variability observed):

Linura	Monitoring Moll	Decemptore Doutingly	 Eveneding 		Ctondord	and Trand
ridure		Parameters Routinen	/ Exceeding	a Groundwater	Standards	s and i rend

		Iron	Magnesium	Manganese	Sodium
E-1	GW-01D		Upward	хх	Upward
E-2	GW-01S		Upward	Downward	Upward
E-3	GW-03D	Downward	хх	Downward	
E-4	GW-03S		Downward		Upward
E-5	GW-04D		Upward		Upward
E-6	GW-04S	Downward	Upward	Downward	

Figure Monitoring Well Parameters Routinely Exceeding Groundwater Standards and Trend

		Iron	Magnesium	Manganese	Sodium			
E-7	GW-07D	Upward	Upward	Upward	Upward			
E-8	GW-07S		Upward		Upward			
E-9	GW-08D		xx	Downward				
E-10	GW-08SR	Downward		Downward				
E-11	GW-26D	Downward	XX	Downward	Downward			
E-12	GW-28S			Downward	Downward			
E-13	GW-29S	Downward	Downward	Downward				
E-14	GW-30S	*	Downward*	*	*			
E-15	GW-31S	Upward		Downward	XX			
E-16	GW-32S	Downward	Downward		Downward*			
E-17	GW-33S		Downward		Downward			
E-18	GW-34S	Downward	Downward	*				
E-19	GW-35S			Upward				

Similarly, the Mann-Kendall Nonparameteric Test for Trend was used to determine if there was a trend over the last 20 events for chromium and lead in GW-07D (on Figure E-7). The test indicated there is an upward trend for both metals over this period.

3.3 Groundwater Discharge Monitoring

Four quarterly discharge sampling events were completed in 2024, in March, June, September, and December. The sampling was performed in accordance with the requirements of Pollutant Discharge Permit No. 22-07-CH016, authorized by the BSA and the Town of Cheektowaga on July 1, 2022. The permit requires quarterly sampling and analysis of select metals (i.e., barium, cadmium, chromium, copper, lead, nickel, and zinc) and total suspended solids (TSS), as well as measurement of pH and flow. A copy of the permit, which shows the monitoring parameters and associated discharge limits, is included as Appendix F.

During the discharge sampling events in March 2024, June 2024, September 2024, and December 2024, each regulated parameter was below the limits set by the permit. On May 21, 2024, AECOM was informed by Eurofins Laboratory-Buffalo that there was a lapse in their New York State Department of Health (NYSDOH) National Environmental Laboratory Accreditation Program (NELAP) Certification for the analysis of metals by Method 200.7. This lapse occurred while the quarterly effluent samples for the March 2024 were analyzed and reported. Inasmuch as the lapse was administrative in nature and the results were in line with historical results, there is no reason to suspect the accuracy of the results. Notification of the laboratory oversight was made to the BSA and NYSDEC. Copies of the data summary tables that were included with the quarterly monitoring reports submitted to the BSA are included as Appendix G.

Once per Permit cycle (the initial event), the BSA requires analysis for total mercury, USEPA Method 608, 624, and 625 parameters. The next time these will be sampled is expected to be June 2025.

3.4 Monitoring Well Inspections

During the November 2024 groundwater sampling event, well inspections were performed on all overburden and bedrock monitoring wells.

All wells appeared to be in good condition, with the exception of minor damage to the risers on monitoring wells GW-07D, GW-01S, and GW-01D, which were previously noted in the 2023 Annual Report. These wells are still functional and do not require immediate repair. The monitoring well inspection logs are included as Appendix H.

4. Summary and Recommendations

General Maintenance: The Town will continue to maintain mechanical equipment at the Site on an as-needed basis, and will operate the groundwater collection and discharge system as designed. It is recommended that the Town continue regular inspections, mow the cap at least once per year, and plow snow to access the Control Building, as necessary.

Groundwater Hydraulic Monitoring: Hydraulic monitoring has been performed on a quarterly basis in conjunction with the discharge monitoring. Water level measurement data demonstrates that the collection trench water levels are maintained at lower elevations than the monitoring points outside the landfill system, as designed. Continued quarterly hydraulic monitoring is recommended. The next rounds of monitoring will be conducted by AECOM in March, June, September and December 2025.

Groundwater Quality Monitoring: Groundwater sample results indicate that only low levels of SVOCs and metals are present at select monitoring wells. Similar concentrations of most parameters were found during previous sampling events. The bis(2-ethylhexyl)phthalate result in GW-07D is anomalously high and is likely due to the replacement of the polyethylene lined stainless steel leader on the stainless steel sampling bailer during the November 2022 event. Prior to the next sampling event, the stainless steel leader at GW-07D will be further rinsed and wiped clean to prevent further exceedances for bis(2-ethylhexyl)phthalate. In addition, monitoring well GW-07D has routinely exhibited chromium, lead, and nickel exceedances of the applicable water quality standards. A filtered sample collected during this event show that these exceedances are likely due to sample turbidity and not dissolved groundwater flow. Both filtered and unfiltered samples for metals analysis will be collected from this well again during the next sampling event.

Continued annual groundwater quality monitoring, alternating between May and November, is recommended. AECOM will complete the next round of groundwater sampling in May 2025.

Groundwater Discharge Monitoring: Groundwater discharges remain within permit limits. Continued quarterly discharge monitoring is recommended. The next rounds of monitoring will be conducted by AECOM in March, June, September and December 2025.



TABLES

TABLE 3-1

ERRATA SHEET for

Operation and Maintenance Plan Pfohl Brothers Landfill Site, Cheektowaga, New York NYSDEC Site Number: 915043

Issued on August 1, 2024

TABLE 3.2

GROUNDWATER SAMPLING SUMMARY OPERATION AND MAINTENANCE PLAN PFOHL BROTHERS LANDFILL SITE, CHEEKTOWAGA, NEW YORK

LOCATIONS

GW-1D/1S GW-3D/3S GW-4D/4S GW-7D/7S GW-8D/8S(R) GW-26D/35S GW-28S GW-29S GW-29S GW-29S GW-30S GW-31S GW-31S GW-32S GW-33S GW-34S

FREQUENCY

annually for overburden and bedrock groundwater

PARAMETERS

Field	рН
	conductivity
	temperature
	turbidity
VOCs	Acetone
	Benzene
	1,2-Dichloroethene (total)
	1,1,2-Trichloroethane
	Vinyl chloride
SVOCs	Phenol
	1,3-Dichlorobenzene
	1,4-Dichlorobenzene
	bis(2-Ethylhexyl)phthalate

TABLE 3-1

ERRATA SHEET for

Operation and Maintenance Plan Pfohl Brothers Landfill Site, Cheektowaga, New York NYSDEC Site Number: 915043

Issued on August 1, 2024

TABLE 3.2 (continued)

GROUNDWATER SAMPLING SUMMARY OPERATION AND MAINTENANCE PLAN PFOHL BROTHERS LANDFILL SITE, CHEEKTOWAGA, NEW YORK

PARAMETERS (cont'd)

Metals	
--------	--

Arsenic Barium Cadmium Chromium Copper Iron Lead Magnesium Manganese Mercury Nickel Silver Sodium Zinc

Antimony

Location ID Sample ID Matrix Depth Interval (ft)			GW-01D	GW-01S	GW-03D	GW-03D	GW-04D
			GW-01D-241120	GW-01S-241120	FD-11212024	GW-03D-241121	GW-04D-241120
			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
			-	-	-	-	-
Date Sampled			11/20/24	11/20/24	11/21/24	11/21/24	11/20/24
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Semivolatile Organic Compounds							
1,3-Dichlorobenzene	UG/L	3			2.0 J	2.0 J	
1,4-Dichlorobenzene	UG/L	3			2.9 J	2.9 J	
bis(2-Ethylhexyl)phthalate	UG/L	5	2.7 J				
Metals							
Arsenic	MG/L	0.025					
Barium	MG/L	1	0.10	0.19	0.076	0.075	0.11
Cadmium	MG/L	0.005					
Chromium	MG/L	0.05	0.18	0.0015 J	0.0013 J	0.0026 J	0.0035 J
Copper	MG/L	0.2	0.0052 J				
Iron	MG/L	0.3	0.96	8.5	0.96		0.10
Lead	MG/L	0.025					
Magnesium	MG/L	35	40.2	26.6	13.0	12.8	84.8
Manganese	MG/L	0.3	0.022	0.99	0.15	0.14	0.025
Nickel	MG/L	0.1	0.020	0.0014 J	0.0040 J	0.0043 J	0.0029 J
Sodium	MG/L	20		161			
Zinc	MG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda). Class GA. * - PCB Criteria based on sum of the aroclors.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

J - The analyte was positively identified, the quantitation is an estimation. Empty cell - Not Detected. NA - Not Analyzed.

NA - Not Analyzeu.

Location ID			GW-04S	GW-04S	GW-07D	GW-07D	GW-07S
Sample ID			GW-04S-241120	GW-04S-241120-PDB	GW-07D-241120	GW-07D-241121	GW-07S-241120
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/20/24	11/20/24	11/20/24	11/21/24	11/20/24
Parameter	Units	Criteria*					
Semivolatile Organic Compounds							
1,3-Dichlorobenzene	UG/L	3		NA	NA		NA
1,4-Dichlorobenzene	UG/L	3		NA	NA		NA
bis(2-Ethylhexyl)phthalate	UG/L	5		NA	NA	84 J	NA
Metals							
Arsenic	MG/L	0.025		NA	NA		NA
Barium	MG/L	1	0.16	NA	NA	0.098	NA
Cadmium	MG/L	0.005		NA	NA		NA
Chromium	MG/L	0.05	0.0045	NA	NA	0.055	NA
Copper	MG/L	0.2	0.0030 J	NA	NA	0.010	NA
Iron	MG/L	0.3		NA	NA	5.8	NA
Lead	MG/L	0.025		NA	NA	0.073	NA
Magnesium	MG/L	35	29.8	NA	NA	37.9	NA
Manganese	MG/L	0.3	0.16	NA	NA	0.063	NA
Nickel	MG/L	0.1	0.0067 J	NA	NA	0.036	NA
Sodium	MG/L	20	30.7	NA	NA	89.5	NA
Zinc	MG/L	2	0.0099 J	NA	NA	0.042	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda). Class GA. * - PCB Criteria based on sum of the aroclors.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

J - The analyte was positively identified, the quantitation is an estimation. Empty cell - Not Detected. NA - Not Analyzed.

Location ID Sample ID Matrix Depth Interval (ft)			GW-07S	GW-08D	GW-08SR	GW-26D	GW-28S
			GW-07S-241121	GW-08D-241121	GW-08SR-241121	GW-26D-241121	GW-28S-241121
			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
			-	-	-	-	-
Date Sampled			11/21/24	11/21/24	11/21/24	11/21/24	11/21/24
Parameter	Units	Criteria*					
Semivolatile Organic Compounds							
1,3-Dichlorobenzene	UG/L	3					
1,4-Dichlorobenzene	UG/L	3					
bis(2-Ethylhexyl)phthalate	UG/L	5					
Metals							
Arsenic	MG/L	0.025			0.012		
Barium	MG/L	1	0.35	0.052	0.24	0.10	0.078
Cadmium	MG/L	0.005					
Chromium	MG/L	0.05	0.092	0.028	0.0026 J		
Copper	MG/L	0.2	0.0044 J	0.0026 J	0.0032 J		0.010
Iron	MG/L	0.3	0.75	0.80	21.8		2.9
Lead	MG/L	0.025			0.0032 J		
Magnesium	MG/L	35	45.9	10	46.4	15.7	28.2
Manganese	MG/L	0.3	0.083	0.034		0.26	0.37
Nickel	MG/L	0.1	0.15	0.014	0.0021 J	0.0019 J	0.0024 J
Sodium	MG/L	20	58.3				8.3
Zinc	MG/L	2	0.0068 J				

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda). Class GA. * - PCB Criteria based on sum of the aroclors.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

J - The analyte was positively identified, the quantitation is an estimation. Empty cell - Not Detected. NA - Not Analyzed.

NA - Not Analyzeu.

Location ID			GW-29S	GW-30S	GW-31S	GW-32S	GW-33S
Sample ID			GW-29S-241122	GW-30S-241122	GW-31S-241122	GW-32S-241122	GW-33S-241122
Matrix Depth Interval (ft)			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
			-	-	-	-	-
Date Sampled			11/22/24	11/22/24	11/22/24	11/22/24	11/22/24
Parameter	Units	Criteria*					
Semivolatile Organic Compounds							
1,3-Dichlorobenzene	UG/L	3					
1,4-Dichlorobenzene	UG/L	3					
bis(2-Ethylhexyl)phthalate	UG/L	5					
Metals							
Arsenic	MG/L	0.025	0.0096 J				
Barium	MG/L	1	0.21	0.29	0.17	0.055	0.077
Cadmium	MG/L	0.005					
Chromium	MG/L	0.05					0.0052
Copper	MG/L	0.2		0.0017 J	0.0018 J		
Iron	MG/L	0.3	9.1	14.4		0.051	0.064
Lead	MG/L	0.025		0.0031 J			
Magnesium	MG/L	35	59.8	34.9	31.4	26.1	31.2
Manganese	MG/L	0.3	0.54	2.2	0.30	0.10	0.0053
Nickel	MG/L	0.1			0.0074 J	0.0024 J	0.0016 J
Sodium	MG/L	20	11.2	532	3.8	4.5	3.5
Zinc	MG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda). Class GA. * - PCB Criteria based on sum of the aroclors.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

J - The analyte was positively identified, the quantitation is an estimation. Empty cell - Not Detected. NA - Not Analyzed.

INA - INULAHAIYZEU.

Location ID	GW-34S	GW-35S		
Sample ID	GW-34S-241121	GW-35S-241121		
Matrix	Groundwater	Groundwater		
Depth Interval (f	-	-		
Date Sampled	11/21/24	11/21/24		
Parameter				
Semivolatile Organic Compounds				
1,3-Dichlorobenzene	UG/L	3		
1,4-Dichlorobenzene	UG/L	3		
bis(2-Ethylhexyl)phthalate	UG/L	5		
Metals				
Arsenic	MG/L	0.025		
Barium	MG/L	1	0.072	0.084
Cadmium	MG/L	0.005	0.0028	
Chromium	MG/L	0.05	0.0028 J	
Copper	MG/L	0.2	0.0017 J	
Iron	MG/L	0.3	0.52	0.063
Lead	MG/L	0.025		
Magnesium	MG/L	35	66.4	28.5
Manganese	MG/L	0.3	0.18	0.37
Nickel	MG/L	0.1	0.0095 J	0.0041 J
Sodium	MG/L	20	53.1	4.1
Zinc	MG/L	2		

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 and 6/2004 Addenda). Class GA. * - PCB Criteria based on sum of the aroclors.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

J - The analyte was positively identified, the quantitation is an estimation. Empty cell - Not Detected. NA - Not Analyzed.
TABLE 3-3

GROUNDWATER SAMPLE ANALYTICAL RESULTS - DISSOLVED METALS ONLY PFOHL BROTHERS LANDFILL SITE NOVEMBER 2024

Location ID	Location ID				
Sample ID	GW-07D-241121				
Lab Sample ID	480-225675-8				
Matrix		Groundwater			
Depth Interval (ft)		-			
Date Sampled		11/21/24			
Parameter	Units				
Filtered Metals					
Antimony	MG/L	0.0068 U			
Arsenic	MG/L	0.010 U			
Barium	MG/L	0.075			
Cadmium	MG/L	0.00050 U			
Chromium	MG/L	0.0016 J			
Copper	MG/L	0.0016 U			
Iron	MG/L	0.021 J			
Lead	MG/L	0.0032 J			
Magnesium	MG/L	32.6			
Manganese	MG/L	0.020			
Mercury	MG/L	4.20E-05 U			
Nickel	MG/L	0.012			
Silver	MG/L	0.0017 U			
Sodium	MG/L	79.6			
Zinc	MG/L	0.017			

Flags assigned during chemistry validation are shown.

J - The analyte was positively identified, the quantitation is an estimation. Empty cell - Not Detected. NA - Not Analyzed.

FIGURES



-:\DCS\Projects\11172700.00000\GIS\ARCMAP\Site Location.mxd 3/25/2025





Source: ESRI World Imagery

che Paramonene i Roll-Annone Ar Anto-Role Ani **Uransit** Road GW-01S, 690.90 GW-01D, 692.35 GW-28S, 689.92 GW-29S, 689.27 684 MH-15, 683.91 689 MH-16, 683.05 GW-30S, 688.24 Pasquelo Driva TIT 39 GW-07D, 666.88 GW-07S, 692.14 PFOHL BROTHERS LANDFILL **GROUNDWATER CONTOURS** (NOVEMBER 20, 2024)

300 Feet

ΑΞϹΟΜ

FIGURE 3-2

Appendix A Example Daily Inspection Sheets

D 11 1				
Dally Lo	ogsneet		I own of Cheektowa	aga
ate	2/15/24		Weather conditions	CIDY/LT. SNO
Time	2:10 pm		Read by:	MM
	Level of Water	Flow	Flow Totals	Pump Run Time
	from bottom (ft.) $Q Q A$	gallons / minute	gallons	Hrs.
	4.7	0.0	-2750	224-
ννν-2 \Λ/\Λ/_1	4.3	0.0	59171	2217
WW-6	7.3	<u> </u>	7590609	23994
WW-4	6.3	0.0	704276	449
WW-5	5,8	24.9	1936520	3285
Flow Tota	alizer at Meter chamber	-	5571810 GAO	@ 24.5gpm
	Outside temp T = 36 Current A = 7.8		Set point SP = 40	
Surge Sup	opressor events	274	_	
Motor Con	trol Center Volts 485 Amps //	volts amps	Which WW was running 1 2 3 4⁄5 6	?
Motor Con Filter	trol Center <u>Volts</u> 485 Amps // Checked	volts amps Changed	Which WW was running 1 2 3 4 5 6	?
Motor Con Filter	Amps // Checked	volts amps Changed s	Which WW was running 1 2 3 4 5 6	?
Motor Con	Amps // Checked	volts amps Changed Is	Which WW was running 1 2 3 4 5 6	?
Motor Con	Amps // Checked	volts amps Changed Is	Which WW was running 1 2 3 4 5 6	?
Motor Con	Amps // Checked	volts amps Changed Is	Which WW was running 1 2 3 4 5 6	?
Motor Con	Amps // Checked	volts amps Changed Is	Which WW was running 1 2 3 4 5 6	?
Motor Con	Amps // Checked	volts amps Changed Is	Which WW was running 1 2 3 4 5 6	?
Motor Con	Amps // Checked	volts amps Changed Is	Which WW was running 1 2 3 4 5 6	?
Motor Con	Amps // Checked	volts amps Changed is	Which WW was running 1 2 3 4 5 6	?
Motor Con	Amps // Checked	volts amps Changed is	Which WW was running 1 2 3 4 5 6	?

Daily L	ogsheet	Pfohl Brothers	Landfill Site Town of Cheektov	vaga
(ıte	6/20/24		Weather conditions	78°F CLOUDY
Time	1015	1	Read by:	RM(AECOM)
	Level of Wate from bottom (er Flow ft.) gallons / minute	Flow Totals gallons	Pump Run Time Hrs.
VVV-3 \/\/\/_2	<u> </u>	0	-1196	2
W/W-1	42	0	- 180	2290
WW-6	6.8	<u> </u>	402.5675	24372
WW-4	5.6	16.0	1957840	1479
WW-5	5.7	0	2395415	3925
Flow Tot	alizer at Meter cha	mber / 6. l	918041	5
Heat Trac	Ce Outside temp T = Current A = 6	BS C	Set point SP = 40°	Ē
Surge Su	ppressor events	308		
Motor Co	ntrol Center Volts 48 Amps 7	<pre> volts amps </pre>	Which WW was runnin 1 2 3 4 5 6	g?
Filter	Checked	Changed		
Comment	COM ONSI-	A/C IN BUILT	MC TURNE MALT EPFLL	52 HEALON OFF
(

Daily L	ogsheet	Pfohl Brothers	Landfill Site Town of Cheektow	/aga
(ate Time	1023ª	24	Weather conditions Read by:	Ally Cloupy 33
WW-3	Level of Water from bottom (ft. タタ へ	Flow) gallons / minute	Flow Totals gallons	Pump Run Time Hrs.
WW-2	4.6	0.0	19	2711
WW-1	4.7	0.0		0702
WW-6	7.4	0.0	381743	20070
WW-4	7.4	0.0	215066	1915
WW-5	J.Z	l.D	501945	4705
Flow To	talizer at Meter chan	nber		1010
	Outside temp T = 7 Current A = $0, 0$	1.°F	Set point SP = 40°F	
Surge Su	ppressor events	317	- , .	
Motor Co	ntrol Center Volts 485	volts	Which WW was running	g?
	Amps 5.0	amps	123456	
Filter	Checked	Changed		
Comment	s and/or Current Cond	itions		
		· · · · · · · · · · · · · · · · · · ·		
				
<u> </u>				
				·····
				······
(
				,

Appendix B Monthly Flow Summaries (January 2024 – December 2024)

1/31/202	24	4,099,660	0	
Jan-24	Time; 11:58pm unless otherwise stated	· Total Reading (Gallons)	Daily Total Discharge (Gallons)	Notes
1		4,134,663	35,003	
2		4,175,580	40,916	
3		4,282,127	106,547	
4		4,302,119	19,991	
5		4,306,776	4,657	
6		4,324,614	17,837	· · · · · · · · · · · · · · · · · · ·
7		4,362,302	37,688	
8		4,422,256	59,954	
9		4,441,171	18,915	12:04 Inhibit
10		4,463,563	22,391	8:58 Enable
11		4,468,854	5,291	15:57 Inhibit
12		4,573,716	104,861	4:28 Enable
13		4,595,120	21,404	
14		4,606,231	11,111	
15		4,617,885	11,654	
16		4,680,371	62,485	
17		4,718,283	37,912	
18		4,735,002	16,719	
19		4,747,943	12,941	
20		4,748,521	577	
21		4,837,184	88,663	
22		4,861,918	24,734	
23		4,880,072	18,153	22:20 Inhibited
24		4,890,802	10,730	7:03 Enabled / 13:56 Inhibited
25		4,890,802	0	
26		4,890,802	0	
27		4,976,916	86,113	7:41 Enabled
28		5,056,232	79,316	14:49 Inhibited
29		5,135,665	79,433	7:02 Enabled
30		5,175,238	39,573	•
31		5,176,260	1,022	
		1,076,600	1,076,591	



1/31/2023	Γ	5,176,260	0	
Feb-24	Time; 11:58pm unless otherwise stated	Total Reading (Gallons)	Daily Total Discharge (Gallons)	Notes
1		5,206,052	29,791	
2		5,212,443	6,391	
. 3		5,312,138	99,695	
4		5,322,073	9,935	
5		5,339,024	16,951	
6		5,351,098	12,073	
7		5,373,293	22,195	
8		5,383,379	10,086	
9		5,410,640	27,261	
10		5,494,145	83,504	
		5,506,913	12,768	
12		5,525,020	18,106	
13	- -	5,537,931	12,911	
14		5,551,205	13,274	
15		5,576,191	24,986	
16		5,578,522	2,331	
17		5,595,464	16,942	
18		5,607,956	12,492	
19		5,615,835	7,878	
20		5,712,507	96,672	
21		5,722,215	9,708	
22		5,738,500	16,285	
23		5,748,778	10,278	11:38 Inhibit / 11:39 Enable
24		5,748,778	0	
25		5,749,644	866	
26		5,786,175	36,531	
27		5,802,490	16,315	23:30 Inhibit
28		5,836,191	33,700	15:08 Enable
29		5,932,193	96,002	
· .				
		755,933	755,927	

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2/29/2024	[5,932,193	0	
Mar-24	Time; 11:58pm unless otherwise stated	Total Reading (Gallons)	Daily Total Discharge (Gallons)	Notes
1		5,940,284	8,091	
2		5,959,943	19,659	
3		5,978,135	18,192	
4		5,979,297	1,161	
5		6,005,782	26,485	
6		6,045,391	39,609	-
7		6,112,772	67,381	
· 8		6,123,606	10,834	
9		6,123,606	0	
10		6,124,449	843	
11		6,186,075	61,626	
12		6,257,769	71,694	
13		6,267,639	9,869	
14		6,280,133	12,494	
. 15		6,280,802	668	
16		6,369,183	88,381	
17		6,411,303	42,120	
18		6,417,957	6,654	
19		6,440,989	23,031	
20		6,452,911	11,922	
21		6,533,522	80,611	
22		6,554,473	20,950	
23		6,563,530	9,057	
24		6,574,798	11,268	
25		6,640,802	66,003	
26		6,640,867	65	
27		6,675,084	34,217	
28		6,726,792	51,708	
29		6,780,780	53,987	
30		6,803,550	22,770	
31		6,809,271	5,721	
· ·		877,078	877,071	



3/31/2024		6,809,271	0	
Apr-24	Time; 11:58pm unless otherwise stated	Total Reading (Gallons)	Daily Total Discharge (Gallons)	Notes
1		6.829.043	19.771	
2		6.839 461	10,418	
3	ĺ	6,857,979	18,527	13:53 Inhibited
4		6,926,572	68,593	10:08 Enabled
5		6,973,833	47,261	
6		6,999,309	25,476	
7		7,005,367	6.058	
8		7,027,206	21,838	
9		7,035,313	8,107	
10		7,035,313	0	22:56 Inhibited
11		7,060,426	25,113	13:08 Enabled/19:42 Inhibited
12		7,060,426	0	
13		7,126,892	66,466	13:52 Enabled
14		7,346,874	153,516	
15		7,336,223	55,815	
16		7,348,859	12,636	
17		7,348,859	0	
18		7,358,064	9,204	
19		7,422,237	64,173	15:00 Power Failed/ 15:05 Power Restored
20		7,422,237	0	
21		7,457,794	35,557	
22	-	7,495,234	37,440	
23		7,532,674	37,440	
24		7,569,437	36,763	
25		7,678,508	109,071	
26		7,713,068	34,560	
27		7,747,628	34,560	
28		7,757,708	10,080	
29		7,757,708	0	
		7,757,708	0	
L		948,437	948,443	



4/30/2	2024	7,757,708	n	
May-24	Time; 11:58pm unless otherwise stated	Total Reading (Gallons)	Daily Total Discharge (Gallons)	Notes
1		7,757,708	0	
2		7,757,708	0	
3		7,787,639	29,931	an a
4		7,817,636	29,997	22:41 Site Inhibited
5		7,831,146	13,510	13:43 Site Enabled
6		7,862,826	31,680	
7		7,894,506	31,680	
8		7,935,331	40,824	2:54 Site Inhibited/ 7:24 Site Enabled
9		8,068,450	133,119	
10		8,086,232	17,782	
11		8,086,232	0	
12		8,086,232	. 0	
13		8,086,232	0	
14		8,086,232	0	
15		8,086,232	0	
16		8,106,403	20,170	
17		8,131,527	25,124	19:00 Site Inhibited
18		8,151,424	19,897	7:29 Site Enabled/ 10:35 Power Failed, 11:25 Power Restored, 12:29 Power Failed, 13:10 Power Restored
19		8,183,104	31,680	
20		8,214,784	31,680	
21		8,246,464	31,680	
22		8,286,495	40,031	•
23		8,332,235	45,740	
24		8,414,987	82,751	
25		8,436,900	21,913	
26		8,436,900	0	
27		8,436,900	0	
28		8,436,900	0	19:59 Site Inhibited
29		8,436,900	0	
		8,440,874	3,974	20:39 Site Enabled
31		8,469,674	28,800	
		711,966	711,963	



5/31/2024		8,469,674	0	
Jun-24	Time; 11:58pm unless otherwise stated	Total Reading (Gallons)	Daily Total Discharge (Gallons)	Notes
1		8,498,474	28.800	
2		8,527,274	28,800	
3		8,556,074	28,800	
4		8,584,874	28,800	
5		8,612,389	27,515	Site inhibited 22:53
6		8,656,180	43,791	Site enabled 15:19
7		8,764,193	108,013	
		8,792,993	28,800	
9		8,810,045	17,052	Site inhibited 2:00/ Site enabled 11:47
10		8,838,845	28,800	
11		8,865,535	26,690	
12		8,888,575	23,040	
13		8,911,615	23,040	
14		8,934,655	23,040	
15		9,032,041	97,386	
16		9,084,848	52,807	
17		9,107,888	23,040	
18		9,137,925	30,037	Site inhibited 10:13/ Site enabled 14:36
19		9,166,335	28,410	
20		9,183,851	17,516	
21		9,183,851	0	
22		9,183,851	0	
23		9,183,851	0	
24		9,183,851	0	
25		9,183,851	0	
26		9,196,878	13,027	
27		9,237,198	40,320	
28		9,277,518	40,320	
29		9,281,627	4,109	Site Inhibited 6:26
30		9,372,296	90,669	Site Enabled 1:35
31				
		902,622	902,622	



JUNE 2024

6/30/2024		9,372,296	0	
Jul-24	Time; 11:58pm unless otherwise stated	Total Reading (Gallons)	Daily Total Discharge (Gallons)	Notes
. 1		50	50	Annual Reset
2		50	0	
3		50	0	
4		14,654	14,604	
5		64,379	49,725	
6		111,885	47,505	
		127,128	15,242	
8		127,128	0	
9		127,128	0	
10		151,596	24,468	
11		167,887	16,290	
12		167,887	0	
13		167,887	0	· · · · ·
14		167,887	. 0	
15		171,148	3,261	14:55 power failed, 15:00 power restored 15:27 Site inhibited
16		252,060	80,911	9:04 Site enabled
17		368,094	116,034	
18		407,429	39,334	
19		415,700	8,271	
20		415,700	0	
21		415,700	0	
22		415,700	0	21:25 Site inhibited
23		415,700	0	9:45 Site enabled
24		430,839	15,139	
25		459,406	28,566	
26		487,816	28,409	
27		517,681	29,865	
28		569,281	51,599	
29		603,649	34,367	
30		606,862	3,213	
31		606,862	0	
		606,862	606,853	



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JULY 2024

7/31/	/2024	606,862	(ק. ק. ארי
Aug-24	Time; 11:58pm unless otherwise stated	, Total Reading (Gallons)	Daily Total Discharge (Gallons)	Notes
1		606 862		
2		607 182	0	
3		645 182		5:39 Site Inhibited 19:07 Site Enabled
4		667,880	38,000	
5		667,880	22,697	
6		667,880	0	16:35 Site Inhibited
7		667,880	0	·
8		699,836	0	
9		751 743		15:50 Site Enabled
10		751 743	51,907	12:52 Site Inhibited
11		824 303	0	
12		885 176	72,649	11:02 Site Enabled
13		022,270	60,783	
14		922,279	37,103	
15		925,538	3,259	
16		925,538	0	
17		925,536	0	22:09 Site Inhibited
18		946 206	0	
19			20,857	10:19 Site Enabled
20		1 005 004	22,152	00:55 Site Inhibited 10:37 Site Enabled
21		1,005,824	37,275	
22		1,012,555	6,731	
23		1,012,555	0	
24		1,012,555	0	
25		1,012,555	0	
		1,012,555	0	
		1,012,555	0	15:39 Site Inhibited 15:41 Site Enabled
28		1,027,508	15,013	
		1,055,108	27,539	·
30		1,082,125	27,017	
31		1,108,332	26,207	
		1,118,891	10,558	9:13 Site Inhibited
		512,029	512,022	

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AUGUST 2024

		1,118,891	0	
Sep-24		Total Reading (Gallons)	Daily Total Discharge (Gallons)	Notes
1		1,137,732	18,841	14:19 Site Enabled
2		1,186,344	48,611	
3		1,289,022	102,677	
4		1,324,990	35,968	
5		1,324,990	0	
6		1,324,990	0	16:15 Site Inhibited
7		1,324,990	0	
8		1,324,990	0	
9		1,324,990	0	
10		1,340,823	15,833	13:17 Site Enabled
11		1,377,694	36,870	
12 .		1,414,659	36,964	
13		1,443,741	29,082	
14		1,443,741	0	
15		1,443,741	0	
16		1,443,741	0	
17		1,443,741	0	
18		1,443,741	0	
19		1,443,741	0	
20		1,529,894	86,153	
21		1,593,158	63,264	
22		1,617,792	24,634	
23		1,641,429	23,636	AECOM onsite for quarterly sampling
24		1,665,578	24,149	AECOM onsite for quarterly sampling
25		1,684,972	19,393	20:48 Site Inhibited
26		1,709,536	24,564	9:53 Site Enabled; 15:51 Site Inhibited 15:53 Site Enabled
27		1,757,373	47,837	
28		1,779,906	22,532	
29		1,782,363	2,456	
30	ļ	1,782,363	0	
31				
		663,472	663,464	

SEPTEMBER 2024



0/30/2024				
9/30/2024	Timo:	1,782,363		0
Oct-24		Total Reading (Gallons)	Daily Total Discharge (Gallons)	Notes
1		1,782,363	. (21:30 Sito Inhibitod
2		1,782,363		8:40 Site Enchlad
3		1,782,363		
4		1,782,363)
5		1,782,363	C	· · · · · · · · · · · · · · · · · · ·
6		1,782,363	0	
7		1,795,073	12.710	
8		1,817,394	22.320	
9		1,839,150	21.756	
10		1,872,306	33,156	
11		1,919,617	47.310	
12		1,960,819	41.201	23:08- Site Inhibited
13		1,960,819	0	20.00-010 mmbled
14		2,018,705	57,886	12:08- Site Enchlod
15		2,096,163	77.458	
16		2,115,540	19.376	
17		2,134,186	18,646	11:27- Power Failure: 11:32- Power Bostered
18		2,152,906	18,720	
19		2,171,626	18,720	
20		2,190,346	18,720	
21		2,209,066	18,720	
22		2,227,786	18,720	
23		2,246,506	18,720	
24		2,265,226	18,720	
25		2,283,946	18,720	
26		2,302,180	18,233	
27		2,319,460	17,280	
28		2,336,740	17,280	
29		2,351,777	15,037	13:16- Site Inhibited: 15:48- Site Enabled
30		2,367,617	15,840	
31		2,398,710	31,092	
		616,347	616.341	





OCTOBER

10/31/2024	2.398.710	0	1	
Nov-24		Total Reading (Gallons)	Daily Total Discharge (Gallons)	Notes
1		2,442,480	43,770	
2		2,476,101	33.620	
3		2,498,714	22.613	
4		2,604,925	106,210	
5		2,620,765	15,840	
6		2,628,008	7,243	
77		2,628,008	0	
8		2,628,008	0	
9		2,628,008	0	
10		2,628,008	0	
11		2,628,008	0	
12		2,628,008	0	
13		2,628,008	0	
14		2,629,692	1,684	
15		2,660,244	30,551	
16		2,703,313	43,069	
17		2,733,544	30,230	
18		2,748,800	15,256	
19		2,764,640	15,840	
20		2,777,930	13,290	21:21- Site Inhibited
21		2,777,930	0	10:31- Site Enabled
22		2,816,565	38,634	15:56- Site Inhibited
23		2,871,841	55,276	10:24- Site Enabled
24		2,913,446	41,605	
25		2,913,446	0	21:55- Site Inhibited
26		2,913,446	0	9:43- Site Enabled
27		2,913,446	0	
28		2,964,235	50,788	
29		3,054,605	90.370	
30		3,097,103	42.498	
31				
		698,393	698,387	



11/30/2024		3,097,103	0			
Dec-24		Total Reading (Gallons)	Daily Total Discharge (Gallons)	Notes		
1		3,117,118	20.015			
2		3,131,518	14,400			
3		3,144,823	13,304	· · · · · · · · · · · · · · · · · · ·		
4		3,157,783	. 12,960			
5		3,170,106	12,323			
6		3,181,626	11,520			
7		3,273,274	91,648			
8		3,277,356	4,082	8:28-Site Inhibited		
9		3,295,029	17,672	15:39- Site Enabled		
10		3,375,830	80,800	21:48- Site Inhibited		
11		3,383,089	7,259	8:50- Site Enabled		
12		3,443,842	60,752			
13		3,488,456	44,614			
14		3,503,884	15,427			
15		3,539,549	35,665	22:07- Site Inhibited		
16		3,623,365	83,816	07:16- Site Enabled; 22:48- Site Inhibited		
17		3,682,650	59,284	7:58- Site Enabled		
18		3,720,798	38,148			
19		3,780,263	59,464			
20		3,815,525	35,262			
21		3,815,525	0			
22		3,815,525	0			
23	-	3,887,436	71,911			
24		3,887,755	318			
25		3,920,791	33,036			
26		3,972,729	51,938			
27		4,061,175	88,446			
28		4,094,092	32,916			
29		4,126,077	31,985	9:56- Site Inhibited		
30		4,183,285	57,208	6:58-Site Enabled; 10:57-Site Inhibited; 16:41-Site Enabled		
31		4,272,269	88,983			
		1,175,166	1,175,156	· · · · · · · · · · · · · · · · · · ·		



DECEMBER 2024

Appendix C Hydraulic Monitoring Tables

TABLE C-1 PFOHL BROTHERS LANDFILL SITE GROUNDWATER ELEVATIONS JANUARY - DECEMBER 2024

Location ID Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
GW-01D	1073088.634	1117968.213	694.41	NM	696.12	D	1						
MNV	V							3/13/2024 1320	2.91	693.21	0.00	693.21	
MNV	V							6/20/2024 1251	3.31	692.81	0.00	692.81	
MNV	V							9/23/2024 1401	3.92	692.20	0.00	692.20	
MNV	V							11/20/2024 1226	3.77	692.35	0.00	692.35	
MNV	V							12/3/2024 1423	3.35	692.77	0.00	692.77	
GW-01S	1073087.779	1117961.500	694.53	NM	696.19	S	1						
MNV	v							3/13/2024 1317	4.01	692.18	0.00	692.18	
MNV	V							6/20/2024 1250	4.03	692.16	0.00	692.16	
MNV	V							9/23/2024 1400	5.37	690.82	0.00	690.82	
MNV	V							11/20/2024 1240	5.29	690.90	0.00	690.90	
MNV	V							12/3/2024 1421	4.39	691.80	0.00	691.80	
GW-03D	1073819.106	1114602.426	692.35	NM	693.88	D	1						
MNV	V							3/13/2024 1154	1.72	692.16	0.00	692.16	
MNV	V							6/20/2024 1136	1.65	692.23	0.00	692.23	
MNV	v							9/23/2024 1219	2.08	691.80	0.00	691.80	
MNV	V							11/20/2024 0902	2.18	691.70	0.00	691.70	
MNV	V							12/3/2024 1314	2.02	691.86	0.00	691.86	
GW-03S	1073812.622	1114605.762	692.61	NM	693.80	S	1						
MNV	v							3/13/2024 1153	2.18	691.62	0.00	691.62	
MNV	V							6/20/2024 1137	4.33	689.47	0.00	689.47	
MNV	V							9/23/2024 1218	11.90	681.90	0.00	681.90	
MNV	V							11/20/2024 0902	NM	-	NM	-	Dry at 13.56'
MNV	V							12/3/2024 1315	NM	-	NM	-	Dry at 13.56'

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Type: MH

MNW

SG

Manhole Monitoring Point Monitoring Well Staff Gauge
Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
GW-04D	1072289.432	1114685.625	690.89	NM	692.75	D	1						
MNW	,							3/13/2024 1330	11.98	680.77	0.00	680.77	
MNW	1							6/20/2024 1301	12.70	680.05	0.00	680.05	
MNW	1							9/23/2024 1414	12.47	680.28	0.00	680.28	
MNW	1							11/20/2024 1507	12.51	680.24	0.00	680.24	
MNW	1							12/3/2024 1430	13.11	679.64	0.00	679.64	
GW-04S	1072284.456	1114685.127	690.76	NM	692.72	S	1						
MNW	r							3/13/2024 1329	4.16	688.56	0.00	688.56	
MNW	1							6/20/2024 1300	4.53	688.19	0.00	688.19	
MNW	,							9/23/2024 1413	6.21	686.51	0.00	686.51	
MNW	1							11/20/2024 1448	6.19	686.53	0.00	686.53	
MNW	1							12/3/2024 1429	5.43	687.29	0.00	687.29	
GW-07D	1071242.458	1117669.925	697.15	NM	699.94	D	1						
MNW	r							3/13/2024 1311	39.86	660.08	0.00	660.08	
MNW								6/20/2024 1243	36.63	663.31	0.00	663.31	
MNW	1							9/23/2024 1337	34.28	665.66	0.00	665.66	
MNW	1							11/20/2024 0959	33.06	666.88	0.00	666.88	
MNW								12/3/2024 1413	57.82	642.12	0.00	642.12	
GW-07S	1071238.157	1117666.265	697.47	NM	699.51	S	1						
MNW	r							3/13/2024 1310	4.85	694.66	0.00	694.66	
MNW	1							6/20/2024 1242	5.41	694.10	0.00	694.10	
MNW								9/23/2024 1339	7.17	692.34	0.00	692.34	
MNW	1							11/20/2024 1000	7.37	692.14	0.00	692.14	
MNW	1							12/3/2024 1412	6.70	692.81	0.00	692.81	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Monitoring Well

Type:

MH

SG

MNW

Manhole Monitoring Point

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
GW-08D	1073713.617	1116795.328	695.28	NM	697.79	D	1						
MNV	/							3/13/2024 1207	5.67	692.12	0.00	692.12	
MNV	/							6/20/2024 1146	5.63	692.16	0.00	692.16	
MNV	/							9/23/2024 1233	6.10	691.69	0.00	691.69	
MNV	/							11/20/2024 0913	6.20	691.59	0.00	691.59	
MNV	/							12/3/2024 1325	6.01	691.78	0.00	691.78	
GW-08SR	1073714.172	1116786.343	695.08	NM	697.50	S	1						
MNV	/							3/13/2024 1208	5.13	692.37	0.00	692.37	
MNV	/							6/20/2024 1145	5.10	692.40	0.00	692.40	
MNV	/							9/23/2024 1232	5.84	691.66	0.00	691.66	
MNV	/							11/20/2024 0914	5.28	692.22	0.00	692.22	
MNV	/							12/3/2024 1324	5.19	692.31	0.00	692.31	
GW-26D	1071698.573	1115997.470	696.01	NM	698.50	D	1						
MNV	/							3/13/2024 1250	6.54	691.96	0.00	691.96	
MNV	/							6/20/2024 1231	6.48	692.02	0.00	692.02	
MNV	/							9/23/2024 1319	6.92	691.58	0.00	691.58	
MNV	/							11/20/2024 0945	7.02	691.48	0.00	691.48	
MNV	/							12/3/2024 1358	6.85	691.65	0.00	691.65	
GW-28S	1073129.479	1117648.927	698.60	NM	700.95	S	1						
MNV	/							3/13/2024 1216	8.86	692.09	0.00	692.09	
MNV	/							6/20/2024 1156	9.79	691.16	0.00	691.16	
MNV	/							9/23/2024 1240	10.70	690.25	0.00	690.25	
MNV	/							11/20/2024 0919	11.03	689.92	0.00	689.92	
MNV	/							12/3/2024 1329	10.43	690.52	0.00	690.52	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

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Monitoring Well Staff Gauge

Manhole Monitoring Point

L:\DCS\Projects\11172700.00000\GIS\dB\Program\EDMS.mde/Groundwater Level

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Type: MH MNW

SG

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
GW-29S	1072552.638	1117761.993	697.50	NM	699.63	S	1						
MNW	1							3/13/2024 1234	7.97	691.66	0.00	691.66	
MNW	1							6/20/2024 1209	8.78	690.85	0.00	690.85	
MNW	/							9/23/2024 1300	9.96	689.67	0.00	689.67	
MNW	/							11/20/2024 0931	10.36	689.27	0.00	689.27	
MNW	/							12/3/2024 1342	9.70	689.93	0.00	689.93	
GW-30S	1072096.109	1117743.563	693.67	NM	696.58	S	1						
MNW	/							3/13/2024 1236	7.65	688.93	0.00	688.93	
MNW	1							6/20/2024 1215	7.73	688.85	0.00	688.85	
MNW	/							9/23/2024 1305	8.16	688.42	0.00	688.42	
MNW	/							11/20/2024 0934	8.34	688.24	0.00	688.24	
MNW	/							12/3/2024 1347	8.10	688.48	0.00	688.48	
GW-31S	1071786.280	1117191.441	695.84	NM	698.62	S	1						
MNW	1							3/13/2024 1242	2.71	695.91	0.00	695.91	
MNW	/							6/20/2024 1219	4.21	694.41	0.00	694.41	
MNV	/							9/23/2024 1309	7.46	691.16	0.00	691.16	
MNW	/							11/20/2024 0940	7.98	690.64	0.00	690.64	
MNW	/							12/3/2024 1351	7.06	691.56	0.00	691.56	
GW-32S	1071613.793	1116364.200	696.19	NM	698.37	S	1						
MNW	/							3/13/2024 1245	2.70	695.67	0.00	695.67	
MNW	/							6/20/2024 1225	4.27	694.10	0.00	694.10	
MNW	1							9/23/2024 1316	6.45	691.92	0.00	691.92	
MNW	1							11/20/2024 0943	6.85	691.52	0.00	691.52	
MNW	1							12/3/2024 1355	5.83	692.54	0.00	692.54	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Type: MH MNW

SG

Manhole Monitoring Point Monitoring Well Staff Gauge

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
GW-33S	1072165.625	1115561.866	695.94	NM	698.24	S	1						
MNW								3/13/2024 1253	4.05	694.19	0.00	694.19	
MNW								6/20/2024 1236	4.97	693.27	0.00	693.27	
MNW								9/23/2024 1325	6.64	691.60	0.00	691.60	
MNW								11/20/2024 0949	5.36	692.88	0.00	692.88	
MNW								12/3/2024 1401	4.61	693.63	0.00	693.63	
GW-34S	1072979.205	1114730.200	692.51	NM	694.77	S	1						
MNW								3/13/2024 1143	2.82	691.95	0.00	691.95	
MNW								6/20/2024 1128	3.04	691.73	0.00	691.73	
MNW								9/23/2024 1209	6.16	688.61	0.00	688.61	
MNW								11/20/2024 0843	5.66	689.11	0.00	689.11	
MNW								12/3/2024 1308	4.40	690.37	0.00	690.37	
GW-35S	1071701.925	1115985.585	696.19	NM	697.39	S	1						
MNW								3/13/2024 1249	3.54	693.85	0.00	693.85	
MNW								6/20/2024 1232	4.72	692.67	0.00	692.67	
MNW								9/23/2024 1320	6.25	691.14	0.00	691.14	
MNW								11/20/2024 0946	6.37	691.02	0.00	691.02	
MNW								12/3/2024 1357	5.77	691.62	0.00	691.62	
MH-01	1073806.665	1114810.501	698.62	NM	698.62	NA	1						
MH								3/13/2024 1150	10.52	688.10	0.00	688.10	
MH								6/20/2024 1132	10.21	688.41	0.00	688.41	
MH								9/23/2024 1214	10.68	687.94	0.00	687.94	
MH								11/20/2024 0858	9.96	688.66	0.00	688.66	
MH								12/3/2024 1311	10.22	688.40	0.00	688.40	

NM - No Measurement

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Type: MH MNW

SG

Manhole Monitoring Point Monitoring Well Staff Gauge

Location ID Type	/ Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MH-03	1073736.789	1115259.334	699.40	NM	699.40	NA	1						
м	-							3/13/2024 1158	11.26	688.14	0.00	688.14	
М	4							6/20/2024 1141	11.06	688.34	0.00	688.34	
М	4							9/23/2024 1226	11.27	688.13	0.00	688.13	
М	-							11/20/2024 0906	10.81	688.59	0.00	688.59	
М	-							12/3/2024 1320	11.09	688.31	0.00	688.31	
MH-07	1073838.229	1116243.757	696.82	NM	696.82	NA	1						
м	-							3/13/2024 1203	9.47	687.35	0.00	687.35	
М	4							6/20/2024 1144	9.28	687.54	0.00	687.54	
M	-							9/23/2024 1228	9.49	687.33	0.00	687.33	
М	H							11/20/2024 0908	9.02	687.80	0.00	687.80	
М	-							12/3/2024 1322	9.29	687.53	0.00	687.53	
MH-10	1073540.729	1117381.524	703.01	NM	703.01	NA	1						
М	-							3/13/2024 1212	14.54	688.47	0.00	688.47	
М	-							6/20/2024 1152	14.52	688.49	0.00	688.49	
М	-							9/23/2024 1238	14.56	688.45	0.00	688.45	
М	-							11/20/2024 0917	14.53	688.48	0.00	688.48	
М	-							12/3/2024 1327	14.52	688.49	0.00	688.49	
MH-15	1072531.567	1117761.125	699.02	NM	699.02	NA	1						
М	-							3/13/2024 1233	14.94	684.08	0.00	684.08	
М	-							6/20/2024 1210	14.87	684.15	0.00	684.15	
М	-							9/23/2024 1259	14.19	684.83	0.00	684.83	
М	-							11/20/2024 0928	15.11	683.91	0.00	683.91	
М	-							12/3/2024 1341	14.93	684.09	0.00	684.09	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Monitoring Well

Staff Gauge

Type:

MH

SG

MNW

Manhole Monitoring Point

Location ID Type	/ Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MH-16	1072133.714	1117748.238	698.57	NM	698.57	NA	1						
M	н							3/13/2024 1235	14.48	684.09	0.00	684.09	
M	Н							6/20/2024 1214	15.60	682.97	0.00	682.97	
M	Н							9/23/2024 1304	13.75	684.82	0.00	684.82	
M	Н							11/20/2024 0932	15.52	683.05	0.00	683.05	
M	Н							12/3/2024 1346	15.01	683.56	0.00	683.56	
MH-17	1071813.137	1117180.019	702.16	NM	702.16	NA	1						
M	н							3/13/2024 1241	18.14	684.02	0.00	684.02	
M	Н							6/20/2024 1218	18.37	683.79	0.00	683.79	
M	н							9/23/2024 1308	17.32	684.84	0.00	684.84	
M	Н							11/20/2024 0936	18.36	683.80	0.00	683.80	
M	Н							12/3/2024 1350	18.34	683.82	0.00	683.82	
MH-20	1071756.395	1115997.024	706.20	NM	706.20	NA	1						
M	н							3/13/2024 1247	19.76	686.44	0.00	686.44	
M	Н							6/20/2024 1230	19.70	686.50	0.00	686.50	
M	Н							9/23/2024 1318	19.71	686.49	0.00	686.49	
M	Н							11/20/2024 0944	19.72	686.48	0.00	686.48	
M	Н							12/3/2024 1356	19.75	686.45	0.00	686.45	
MH-22	1072158.023	1115589.309	698.05	NM	698.05	NA	1						
M	н							3/13/2024 1252	8.99	689.06	0.00	689.06	
M	н							6/20/2024 1235	9.02	689.03	0.00	689.03	
M	Н							9/23/2024 1324	8.99	689.06	0.00	689.06	
M	Н							11/20/2024 0948	9.07	688.98	0.00	688.98	
M	Н							12/3/2024 1400	9.15	688.90	0.00	688.90	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.



SG

Manhole Monitoring Point Monitoring Well Staff Gauge

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MH-25	1072483.928	1114820.313	698.17	NM	698.17	NA	1						
MH	ł							3/13/2024 1137	10.16	688.01	0.00	688.01	
MH	1							6/20/2024 1125	9.80	688.37	0.00	688.37	
MH	ł							9/23/2024 1205	10.30	687.87	0.00	687.87	
MH	1							11/20/2024 0837	9.55	688.62	0.00	688.62	
MH	1							12/3/2024 1301	9.82	688.35	0.00	688.35	
SG-01	1073882.887	1114813.101	NM	NM	690.00	NA	1						
so	6							3/13/2024 1152	-0.77	690.77	0.00	690.77	
SC	6							6/20/2024 1134	NM	-	NM	-	Dry at -0.80'
SC	6							9/23/2024 1216	NM	-	NM	-	Dry at -0.80'
SC	6							11/20/2024 0859	NM	-	NM	-	Dry at -0.80'
SC	à							12/3/2024 1312	NM	-	NM	-	Dry at -0.80'
SG-02	1073738.27	1116805.85	NM	NM	690.00	NA	1						
so	6							3/13/2024 1209	-3.36	693.36	0.00	693.36	
SC	6							6/20/2024 1148	-3.44	693.44	0.00	693.44	
SC)							9/23/2024 1236	NM	-	NM	-	Dry at -3.30'
SC)							11/20/2024 0911	-3.32	693.32	0.00	693.32	
SC	6							12/3/2024 1326	-3.34	693.34	0.00	693.34	
WW-01	1073676.903	1115710.476	NM	NM	684.02	NA	1						
MH	1							3/13/2024 1100	-4.00	688.02	0.00	688.02	
MH	ł							6/20/2024 1000	-4.20	688.22	0.00	688.22	
MH	ł							9/23/2024 1130	-4.00	688.02	0.00	688.02	
MH	1							11/20/2024 0730	-4.40	688.42	0.00	688.42	
MH	1							12/3/2024 1230	-4.10	688.12	0.00	688.12	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

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Manhole Monitoring Point

Monitoring Well

Staff Gauge

Type:

MH

SG

MNW

Filter = (Year([tblGWD].[LOGDATE])=(Year(Date())-1))

Location ID Type	/ Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
WW-02	1073684.724	1116792.311	NM	NM	684.18	NA	1						
M	н							3/13/2024 1100	-4.60	688.78	0.00	688.78	
M	Н							6/20/2024 1000	-4.60	688.78	0.00	688.78	
M	н							9/23/2024 1130	-4.60	688.78	0.00	688.78	
M	Н							11/20/2024 0730	-4.60	688.78	0.00	688.78	
M	Н							12/3/2024 1230	-4.60	688.78	0.00	688.78	
WW-03	1073140.339	1117618.499	NM	NM	683.80	NA	1						
Μ	н							3/13/2024 1217	-4.75	688.55	0.00	688.55	
M	Н							6/20/2024 1158	-4.72	688.52	0.00	688.52	
M	н							9/23/2024 1245	-4.61	688.41	0.00	688.41	
M	Н							11/20/2024 0730	-4.70	688.50	0.00	688.50	
M	Н							12/3/2024 1330	-4.72	688.52	0.00	688.52	
WW-04	1072057.563	1117610.508	NM	NM	676.62	NA	1						
M	н							3/13/2024 1100	-6.80	683.42	0.00	683.42	
M	Н							6/20/2024 1000	-5.60	682.22	0.00	682.22	
M	Н							9/23/2024 1130	-7.60	684.22	0.00	684.22	
M	Н							11/20/2024 0730	-5.60	682.22	0.00	682.22	
M	Н							12/3/2024 1230	-6.10	682.72	0.00	682.72	
WW-05	1071661.368	1116370.876	NM	NM	676.14	NA	1						
M	н							3/13/2024 1100	-6.20	682.34	0.00	682.34	
M	н							6/20/2024 1000	-5.70	681.84	0.00	681.84	
M	Н							9/23/2024 1130	-7.60	683.74	0.00	683.74	
M	Н							11/20/2024 0730	-5.90	682.04	0.00	682.04	
M	Н							12/3/2024 1230	-6.10	682.24	0.00	682.24	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Type: MH MNW

SG

Manhole Monitoring Point Monitoring Well Staff Gauge

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
WW-06	1072988.420	1114811.518	NM	NM	681.89	NA	1						
MH								3/13/2024 1100	-6.80	688.69	0.00	688.69	
MH								6/20/2024 1000	-6.80	688.69	0.00	688.69	
MH								9/23/2024 1130	-6.40	688.29	0.00	688.29	
MH								11/20/2024 0730	-7.30	689.19	0.00	689.19	
MH								12/3/2024 1230	-7.10	688.99	0.00	688.99	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

 Type:

 MH
 Manhole Monitoring Point

 MNW
 Monitoring Well

 SG
 Staff Gauge

TABLE C-2 PFOHL BROTHERS LANDFILL SITE OVERBURDEN HYDRAULIC GRADIENT

WELL PAIR:	WW-1	*	Level	WW-2	GW-8SR	Level	WW-2	SG-02	Level
	Water Level	Water Level	Difference	Water Level	Water Level	Difference	Water Level	Water Level	Difference
DATE	(ft amsl)	(ft amsl)	(ft)	(ft amsl)	(ft amsl)	(ft)	(ft amsl)	(ft amsl)	(ft)
3/13/2024	688.02			688.78	692.37	3.59	688.78	693.36	4.58
6/20/2024	688.22			688.78	692.40	3.62	688.78	693.44	4.66
9/23/2024	688.02			688.78	691.66	2.88	688.78	DRY	NA
11/20/2024	688.42			688.78	692.22	3.44	688.78	693.32	4.54
12/3/2024	688.12			688.78	692.31	3.53	688.78	693.34	4.56
							_		
WELL PAIR:	WW-3	GW-28S	Level	WW-4	*	Level			
	Water Level	Water Level	Difference	Water Level	Water Level	Difference			
DATE	(ft amsl)	(ft amsl)	(ft)	(ft amsl)	(ft amsl)	(ft)			
3/13/2024	688.55	692.09	3.54	683.42					
6/20/2024	688.52	691.16	2.64	682.22					
9/23/2024	688.41	690.25	1.84	684.22					
11/20/2024	688.50	689.92	1.42	682.22					
12/3/2024	688.52	690.52	2.00	682.72					
							_		
WELL PAIR:	WW-5	GW-32S	Level	WW-6	GW-34S	Level			
	Water Level	Water Level	Difference	Water Level	Water Level	Difference			
DATE	(ft amsl)	(ft amsl)	(ft)	(ft amsl)	(ft amsl)	(ft)			
3/13/2024	682.34	695.67	13.33	688.69	691.95	3.26			
6/20/2024	681.84	694.10	12.26	688.69	691.73	3.04			
9/23/2024	683.74	691.92	8.18	688.29	688.61	0.32			
11/20/2024	682.04	691.52	9.48	689.19	689.11	-0.08			
12/3/2024	682.24	692.54	10.30	688.99	690.37	1.38			
	-						•		
WELL PAIR:	MH-1	SG-1	Level	MH-15	GW-29S	Level			
	Water Level	Water Level	Difference	Water Level	Water Level	Difference			
DATE	(ft amsl)	(ft amsl)	(ft)	(ft amsl)	(ft amsl)	(ft)			
3/13/2024	688.10	690.77	2.67	684.08	691.66	7.58			
6/20/2024	688.41	DRY	NA	684.15	690.85	6.70			
9/23/2024	687.94	DRY	NA	684.83	689.67	4.84			
11/20/2024	688.66	DRY	NA	683.91	689.27	5.36			
12/3/2024	688.40	DRY	NA	684.09	689.93	5.84			
							-		
WELL PAIR:	MH-16	GW-30S	Level	MH-17	GW-31S	Level			
	Water Level	Water Level	Difference	Water Level	Water Level	Difference			
DATE	(ft amsl)	(ft amsl)	(ft)	(ft amsl)	(ft amsl)	(ft)			
3/13/2024	684.09	688.93	4.84	684.02	695.91	11.89			
6/20/2024	682.97	688.85	5.88	683.79	694.41	10.62			
9/23/2024	684.82	688.42	3.60	684.84	691.16	6.32			
11/20/2024	683.05	688.24	5.19	683.80	690.64	6.84			
12/3/2024	683.56	688.48	4.92	683.82	691.56	7.74			
	-								
WELL PAIR:	MH-20	GW-35S	Level	MH-22	GW-33S	Level			
	Water Level	Water Level	Difference	Water Level	Water Level	Difference			
DATE	(ft amsl)	(ft amsl)	(ft)	(ft amsl)	(ft amsl)	(ft)			
3/13/2024	686.44	693.85	7.41	689.06	694.19	5.13			
6/20/2024	686 50	692.67	6.17	689.03	693.27	4.24			
	000.00	002.01	•						
9/23/2024	686.49	691.14	4.65	689.06	691.60	2.54			
9/23/2024 11/20/2024	686.49 686.48	691.14 691.02	4.65 4.54	689.06 688.98	691.60 692.88	2.54 3.90			

Notes:

* = No corresponding monitoring well. NA = Not applicable

Appendix D Groundwater Purge and Sample Collection Logs

Site:	Pfohl Brothers Landfill		Event: November 2024 Annual Sampling
Sample Inform	nation		
Sample ID:	GW-01D-241120	Date:	11/20/2024 1:40:00 PM
Well ID:	GW-01D	Location Type:	MONITORING WELL
Duplicate ID:		Sampler:	HorrocksC
Equipment:	Field parameter: AquaTroll # 808878 WL/int m	neter: Solinst 101 # 29962	
Analysis:	VOCs, SVOCs, Metals		
Comments:			
Water Level			
Date:	11/20/2024 12:26:00 PM	Measured Well Depth:	39.65
Screen Interval:	-	Total Depth:	
Is Well Dry?	No	Depth to DNAPL:	NE
Depth to Water:	3.77	Depth to LNAPL:	NE

Project #: 60411174

Notes:

Client:

NYSDEC

Purge Information			
Begin Date and Time:	11/20/2024 12:34:00 PM	End Date and Time:	11/20/2024 1:40:00 PM
Purge Method:	Low flow (pump : Peristaltic)	Sample Method:	Low flow
Notes:			

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)	
12:35 PM	0.00	640	13.88	7.23	1391.95	6.58	-73.7	31.99	3.81	Clear	None	
12:40 PM	0.85	640	12.19	7.17	1427.99	0.12	-104.6	22.67	3.81	Clear	None	
12:45 PM	1.70	640	12.25	7.15	1459.76	0.08	-115.7	30.88	3.81	Clear	None	
12:50 PM	2.55	640	12.20	7.14	1407.72	0.05	-121.8	60.33	3.81	Clear	None	
12:55 PM	3.40	640	12.28	7.13	1409.22	0.04	-129.5	90.03	3.81	Clear	None	
1:00 PM	4.25	640	12.28	7.12	1413.36	0.03	-135.8	93.80	3.81	Clear	None	
1:05 PM	5.10	640	12.31	7.12	1405.49	0.03	-140.4	137.75	3.81	Clear	None	
1:10 PM	5.95	640	12.36	7.15	1398.24	0.02	-148.3	136.62	3.81	Clear	None	
1:15 PM	6.80	640	12.34	7.17	1396.08	0.02	-153.6	125.11	3.81	Clear	None	
1:20 PM	7.65	640	12.36	7.19	1435.05	0.01	-160.5	22.77	3.81	Clear	None	
1:25 PM	8.50	640	12.34	7.19	1424.24	0.02	-166.0	21.65	3.81	Clear	None	
1:30 PM	9.35	640	12.38	7.17	1430.58	0.02	-175.9	25.89	3.81	Clear	None	
1:35 PM	10.20	640	12.40	7.13	1432.19	0.01	-179.4	25.85	3.81	Clear	None	
1:40 PM	11.05	640	12.36	7.12	1434.86	0.01	-184.3	33.61		Clear	None	

Client: NYSDEC Site: Pfohl Brothers Landfill

Sample Information						
Sample ID:	GW-01S-241120	Date:	11/20/2024 2:30:00 PM			
Well ID:	GW-01S	Location Type:	MONITORING WELL			
Duplicate ID:		Sampler:	HorrocksC			
Equipment:	Field parameter: AquaTroll # 808878 WL/int m	neter: Solinst 101 # 29962				
Analysis:	VOCs, SVOCs, Metals					
Comments:						

Water Level							
Date:	11/20/2024 1:41:00 PM	Measured Well Depth:	14.94				
Screen Interval:	-	Total Depth:					
Is Well Dry?	No	Depth to DNAPL:	NE				
Depth to Water:	5.29	Depth to LNAPL:	NE				
Notes:							

Purge Information							
Begin Date and Time:	11/20/2024 1:44:00 PM	End Date and Time:	11/20/2024 2:30:00 PM				
Purge Method:	Low flow (pump : Peristaltic)	Sample Method:	Low flow				
Notes:							

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)	
1:45 PM	0.00	200	13.89	6.78	1602.91	3.20	-113.8	629.07	5.29	Cloudy	None	
1:50 PM	0.25	200	13.78	6.77	1600.00	0.27	-116.2	616.51	5.98	Cloudy	None	
1:55 PM	0.50	200	13.81	6.83	1498.32	0.23	-117.3	476.63	6.12	Cloudy	None	
2:00 PM	0.75	200	13.70	6.94	1319.01	0.91	-106.4	143.09	6.17	Slightly Cloudy	None	
2:05 PM	1.00	200	13.66	6.86	1335.74	0.76	-97.5	76.50	6.19	Clear	None	
2:10 PM	1.25	200	13.78	6.80	1358.69	0.52	-93.6	50.42	6.21	Clear	None	
2:15 PM	1.50	200	13.79	6.77	1376.02	0.38	-91.5	41.91	6.22	Clear	None	
2:20 PM	1.75	200	14.03	6.73	1391.33	0.16	-90.6	12.82	6.23	Clear	None	
2:25 PM	2.00	200	13.97	6.71	1400.99	0.16	-89.9	13.55	6.23	Clear	None	
2:30 PM	2.25	200	13.99	6.70	1407.65	0.15	-89.9	14.81	6.23	Clear	None	

Notes:

Client:	NYSDEC	Project #: 60411174					
Site:	Pfohl Brothers Landfill		Event: November 2024 Annual Sampling				
Sample Inform	nation						
Sample ID:	GW-03D-241121	Date:	11/21/2024 11:45:00 AM				
Well ID:	GW-03D	Location Type:	MONITORING WELL				
Duplicate ID:	FD-20241121	HorrocksC					
Equipment:	Field parameter: AquaTroll # 808878 WL/int meter: Solinst 101 # 29962						
Analysis:	VOCs, SVOCs, Metals						
Comments:							
Water Level							
Date:	11/21/2024 10:40:00 AM	Measured Well Depth:	35.70				
Screen Interval:	-	Total Depth:					
Is Well Dry?	No	Depth to DNAPL:	NE				
Depth to Water:	1.81	Depth to LNAPL:	NE				

 Purge Information

 Begin Date and Time:
 11/21/2024 10:45:00 AM

 Purge Method:
 Low flow (pump : Peristaltic)

 Sample Method:
 Low flow

 Notes:
 Low flow

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)	
10:15 AM	0.00	750	9.05	7.10	2029.97	0.37	-145.5	16.67	1.81	Clear	None	
10:45 AM	1.00	750	9.46	7.68	0.86	12.47	-37.3	160.35	1.81	Clear	None	
10:50 AM	2.00	750	9.64	7.10	1484.43	0.35	-141.8	11.32	1.81	Clear	None	
10:55 AM	3.00	750	9.72	7.09	1634.29	0.30	-142.5	25.48	1.81	Clear	None	
11:00 AM	4.00	750	9.73	7.09	1770.21	0.33	-143.7	33.93	1.81	Clear	None	
11:05 AM	5.00	750	9.64	7.10	1785.95	0.27	-144.6	14.07	1.81	Clear	None	
11:10 AM	6.00	750	9.54	7.10	1803.95	0.26	-144.4	14.37	1.81	Clear	None	
11:20 AM	7.00	750	9.16	7.10	1866.54	0.38	-145.3	20.31	1.81	Clear	None	
11:25 AM	8.00	750	9.32	7.11	1853.74	0.45	-145.4	32.99	1.81	Clear	None	
11:30 AM	9.00	750	9.31	7.11	1876.16	0.44	-145.7	55.27	1.81	Clear	None	
11:35 AM	10.00	750	8.81	7.10	2068.54	0.38	-145.9	66.67	1.81	Clear	None	
11:40 AM	11.00	750	9.18	7.10	1866.39	0.26	-147.0	16.83	1.81	Clear	None	
11:45 AM	12.00	750	9.57	7.10	1844.64	0.26	-148.7	28.10	1.81	Clear	None	

Client: NYSDEC Project #: 60411174 Site: Pfohl Brothers Landfill Event: November 2024 Annual Sampling **Sample Information** Sample ID: GW-04D-241120 Date: 11/20/2024 4:15:00 PM Well ID: **GW-04D** MONITORING WELL Location Type: Duplicate ID: Sampler: HorrocksC Equipment: Field parameter: AquaTroll # 808878 WL/int meter: Solinst 101 # 29962 Analysis: VOCs, SVOCs, Metals Comments: Water Level Date: 11/20/2024 3:05:00 PM Measured Well Depth: 45.57 Screen -Total Depth: Interval:

Notes:			
Purge Information			
Begin Date and Time:	11/20/2024 3:10:00 PM	End Date and Time:	11/20/2024 4:15:00 PM
Purge Method:	Low flow (pump : Peristaltic)	Sample Method:	Low flow

Depth to DNAPL:

Depth to LNAPL:

NE

NE

Notes:

Is Well Dry?

Depth to

Water:

No

12.51

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)	
3:15 PM	0.00	150	14.17	6.92	1923.14	2.34	-198.1	18.74	12.51	Clear	None	
3:20 PM	0.20	150	13.27	6.94	1949.77	0.22	-238.0	45.49	12.75	Clear	None	
3:25 PM	0.40	150	12.89	6.92	1931.52	0.16	-251.1	71.73	12.87	Clear	None	
3:30 PM	0.60	150	12.81	6.93	1935.64	0.16	-256.1	9.45	12.98	Clear	None	
3:35 PM	0.80	150	12.78	6.94	1937.60	0.14	-264.5	16.74	13.10	Clear	None	
3:40 PM	1.00	150	12.81	6.95	1938.17	0.13	-266.2	12.38	13.15	Clear	None	
3:45 PM	1.20	150	12.68	6.95	1922.81	0.13	-269.7	52.60	13.25	Clear	None	
3:50 PM	1.40	150	12.43	6.96	1892.48	0.12	-267.0	25.47	13.32	Clear	None	
3:55 PM	1.60	150	12.43	6.95	1922.01	0.11	-275.5	37.87	13.43	Clear	None	
4:00 PM	1.80	150	12.36	6.95	1926.40	0.11	-277.8	25.37	13.51	Clear	None	
4:05 PM	2.00	150	12.42	6.95	1920.80	0.11	-277.8	9.67	13.54	Clear	None	
4:10 PM	2.20	150	12.50	6.95	1949.24	0.11	-274.7	9.18	13.58	Clear	None	
4:15 PM	2.40	150	12.52	6.95	1957.47	0.11	-282.0	10.94	13.63	Clear	None	

Client: NYSDEC

Site: Pfohl Brothers Landfill

Sample Information							
Sample ID:	GW-04S-241120-PDB and GW-04S-241120	Date:	11/20/2024 2:50:00 PM				
Well ID:	GW-04S	Location Type:	MONITORING WELL				
Duplicate ID:		Sampler:	HorrocksC				
Equipment:	Field parameter: AquaTroll # 808878 WL/int m	neter: Solinst 101 # 29962					
Analysis:	VOCs, SVOCs, Metals						
Comments:							

Water Level							
Date:	11/20/2024 2:47:00 PM	Measured Well Depth:	16.23				
Screen Interval:	-	Total Depth:					
Is Well Dry?	No	Depth to DNAPL:	NE				
Depth to Water:	6.19	Depth to LNAPL:	NE				
Notes:							

Purge Information			
Begin Date and Time:	11/20/2024 2:58:00 PM	End Date and Time:	11/20/2024 4:30:00 PM
Purge Method:	Bailer	Sample Method:	PDB and Grab with Bailer
Notes:	Collect VOCs from PDB, purge well of	try with bailer and collect SVC	DCs and Metals after recovery (same day).

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)
2:58 PM	0.00		15.81	8.98	519.81	6.33	-49.8	10.30			
2:59 PM	1.00	0	15.71	9.02	522.10	6.43	-60.2	2.30		Clear	None
3:00 PM	1.50	0	16.52	8.78	0.07	9.35	-52.0	25.89		Clear	None
3:01 PM	2.00	0	16.61	8.69	0.43	8.99	-38.5	66.73		Clear	None
3:03 PM	2.50	0	13.60	8.50	522.54	8.18	-32.6	67.59		Clear	None
3:04 PM	3.00	0	13.71	8.39	519.11	9.04	-28.1	120.57		Clear	None
4:30 PM	3.00	0	13.33	7.88	577.97	6.04	-195.7	32.21	12.74	Clear	None

Client: NYSDEC

Site: Pfohl Brothers Landfill

Sample Inform	Sample Information									
Sample ID:	GW-07D-241120 and GW-07D-241121	Date:	11/20/2024 10:10:00 AM							
Well ID:	GW-07D	Location Type:	MONITORING WELL							
Duplicate ID:		Sampler:	HorrocksC							
Equipment:	Field parameter: AquaTroll # 808878 WL/int meter: Solinst 101 # 29962									
Analysis:	VOCs, SVOCs, Metals (dissolved [field filtered] and total)									
Comments:										

Water Level			
Date:	11/20/2024 10:04:00 AM	Measured Well Depth:	NM
Screen Interval:	-	Total Depth:	
Is Well Dry?	No	Depth to DNAPL:	NE
Depth to Water:	33.06	Depth to LNAPL:	NE
Notes:			

Purge Information			
Begin Date and Time:	11/20/2024 10:17:00 AM	End Date and Time:	11/21/2024 8:45:00 AM
Purge Method:	Bailer	Sample Method:	PDB and grab with Bailer
Notes:	Collect VOCs from PDB, purge well of	try with bailer and collect SVC	DCs and Metals after recovery (next day)

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)
10:16 AM	0.00		14.01	7.20	777.06	4.15	19.6	4.90	33.07		
10:26 AM	3.00		14.03	7.46	767.57	6.64	-13.0	6.20		Clear	No
10:34 AM	6.00		13.83	7.53	771.87	8.51	8.2	18.46		Clear	No
10:44 AM	9.00		13.88	7.59	773.42	8.52	-7.7	31.93		Clear	No
10:56 AM	12.00		13.82	7.67	817.88	8.78	-92.2	58.61		Clear	No
11:05 AM	15.00		14.46	7.75	865.69	8.24	-127.3	68.28		Black	Sulfur
11:21 AM	18.00		14.39	8.17	917.98	7.84	-129.9	104.79	Dry	Black	Sulfur
8:45 AM	18.00	0	9.65	7.87	1391.00	5.14	31.5	107.53	58.33		

Client: NYSDEC

Site: Pfohl Brothers Landfill

Sample Information								
Sample ID:	GW-07S-241120 and GW-07S-241121	Date:	11/20/2024 11:35:00 AM					
Well ID:	GW-07S	Location Type:	MONITORING WELL					
Duplicate ID:		Sampler:	HorrocksC					
Equipment:	Field parameter: AquaTroll # 808878 WL/int m	neter: Solinst 101 # 29962						
Analysis:	VOCs, SVOCs, Metals							
Comments:								

Water Level			
Date:	11/20/2024 11:30:00 AM	Measured Well Depth:	35.33
Screen Interval:	-	Total Depth:	
Is Well Dry?	No	Depth to DNAPL:	NE
Depth to Water:	7.37	Depth to LNAPL:	NE
Notes:			

Purge Information			
Begin Date and Time:	11/20/2024 11:35:00 AM	End Date and Time:	11/21/2024 8:55:00 AM
Purge Method:	Bailer	Sample Method:	PDB and grab with Bailer
Notes:	Collect VOCs from PDB, purge well of	dry with bailer and collect SVC	DCs and Metals after recovery (next day)

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	ht (su)	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)
11:39 AM	0.00		15.11	7.75	734.23	8.14	-95.1	31.36	7.37	Clear	
11:41 AM	1.00		14.62	7.79	710.05	9.08	-91.1	25.86		Clear	
11:44 AM	2.00		14.72	7.81	706.89	8.23	-85.2	26.95		Clear	
11:46 AM	3.00		14.55	7.82	699.24	7.67	-83.7	23.63		Clear	
11:48 AM	4.00		14.41	7.80	693.15	8.84	-78.3	28.94		Clear	
11:49 AM	5.00		14.01	7.81	696.76	9.82	-77.1	79.35		Clear	
11:56 AM	6.00		18.67	7.85	1.84	8.16	-85.0	414.72		Cloudy/ brown	
11:58 AM	7.00		16.22	7.78	0.97	9.65	-69.4	4.01	Dry	Cloudy/ brown	
8:55 AM	7.00	0	9.59	7.80	819.29	10.34	-37.2	16.44	7.29	Clear	None

Client: NYSDEC Site: Pfohl Brothers Landfill Event: November 2024 Annual Sampling **Sample Information** Sample ID: GW-08D-241121 Date: 11/21/2024 1:15:00 PM Well ID: **GW-08D** MONITORING WELL Location Type: Duplicate ID: Sampler: HorrocksC Equipment: Field parameter: AquaTroll # 808878 WL/int meter: Solinst 101 # 29962 Analysis: VOCs, SVOCs, Metals Comments: Plus MS/MSD Water Level Date: 11/21/2024 12:10:00 PM Measured Well Depth: 36.54 Screen -Total Depth: Interval: Is Well Dry? No Depth to DNAPL: NE Depth to NE 5.85 Depth to LNAPL: Water: Notes:

Purge Information									
Begin Date and Time:	11/21/2024 12:15:00 PM	End Date and Time:	11/21/2024 1:15:00 PM						
Purge Method:	Low flow (pump : Peristaltic)	Sample Method:	Low flow						
Notes:									

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)	
12:15 PM	0.00	750	11.11	7.04	1835.09	7.26	-116.6	51.07	5.85	Clear	None	
12:20 PM	1.00	750	11.09	6.97	1753.02	0.73	-126.8	23.43	5.85	Clear	None	
12:25 PM	2.00	750	11.05	6.95	1764.45	0.07	-126.8	14.47	5.85	Clear	None	
12:30 PM	3.00	750	10.01	6.93	2172.99	0.02	-137.3	18.92	5.85	Clear	None	
12:35 PM	4.00	750	9.85	6.94	2070.56	0.01	-140.6	18.41	5.85	Clear	None	
12:40 PM	5.00	750	9.48	6.95	2063.69	0.01	-150.7	19.29	5.85	Clear	None	
12:45 PM	6.00	750	9.18	6.94	2169.61	0.00	-162.5	27.11	5.85	Clear	None	
12:50 PM	7.00	750	9.52	7.00	1969.30	0.00	-182.0	71.92	5.85	Clear	None	
12:55 PM	8.00	750	9.95	7.16	1419.42	0.00	-166.5	31.29	5.85	Clear	None	
1:00 PM	9.00	750	10.26	7.18	1379.38	0.00	-150.3	19.42	5.85	Clear	None	
1:05 PM	10.00	750	10.57	7.18	1355.12	0.00	-141.0	15.68	5.85	Clear	None	
1:10 PM	11.00	750	10.77	7.18	1347.83	0.00	-133.4	14.55	5.85	Clear	None	
1:15 PM	12.00	750	10.87	7.18	1351.95	0.00	-130.8	14.40	5.85	Clear	None	

Project #: 60411174

Client: NYSDEC Project #: 6041174 Site: Pfohl Brothers Landfill Event: November 2024 Annual Sampling **Sample Information** Sample ID: GW-08SR-241121 Date: 11/21/2024 2:05:00 PM Well ID: GW-08SR Location Type: MONITORING WELL Duplicate ID: Sampler: HorrocksC Equipment: Field parameter: AquaTroll # 808878 WL/int meter: Solinst 101 # 29962 Analysis: VOCs, SVOCs, Metals Comments:

Water Level			
Date:	11/21/2024 1:27:00 PM	Measured Well Depth:	13.02
Screen Interval:	-	Total Depth:	
Is Well Dry?	No	Depth to DNAPL:	NE
Depth to Water:	5.13	Depth to LNAPL:	NE
Notes:			

Purge Information							
Begin Date and Time:	11/21/2024 1:30:00 PM	End Date and Time:	11/21/2024 2:05:00 PM				
Purge Method:	Low flow (pump : Peristaltic)	Sample Method:	Low flow				
Notes:		^					

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)	
1:30 PM	0.00	200	9.98	6.54	3370.19	0.44	-146.8	56.97	5.91	Clear	None	
1:35 PM	0.26	200	10.48	6.54	3104.84	0.23	-145.9	31.67	6.51	Clear	None	
1:40 PM	0.53	200	10.87	6.55	3063.15	0.18	-145.6	13.36	7.20	Clear	None	
1:45 PM	0.79	200	10.99	6.56	3055.31	0.13	-146.5	16.06	7.51	Clear	None	
1:50 PM	1.06	200	11.05	6.55	3053.42	0.14	-148.5	11.13	7.72	Clear	None	
1:55 PM	1.32	200	11.29	6.55	3054.75	0.09	-151.1	14.32	7.91	Clear	None	
2:00 PM	1.58	200	11.31	6.56	3059.01	0.10	-152.2	12.69	8.02	Clear	None	
2:05 PM	1.85	200	11.35	6.56	3051.97	0.09	-152.7	12.03	8.10	Clear	None	

Client: NYSDEC Project #: 60411174 Site: Pfohl Brothers Landfill Event: **Sample Information** Sample ID: GW-26D-241121 Date: 11/21/2024 4:35:00 PM Well ID: GW-26D Location Type: MONITORING WELL Duplicate ID: Sampler: HorrocksC Equipment: Field parameter: AquaTroll # 808878 WL/int meter: Solinst 101 # 29962 Analysis: VOCs, SVOCs, Metals Comments: Water Level Measured Well Depth: Date: 11/21/2024 3:29:00 PM 40.70 Screen -Total Depth: Interval: Is Well Dry? No Depth to DNAPL: NE Depth to 6.69 NE Depth to LNAPL: Water: Notes:

Purge Information							
Begin Date and Time:	11/21/2024 3:35:00 PM	End Date and Time:	11/21/2024 4:35:00 PM				
Purge Method:	Low flow (pump : Peristaltic)	Sample Method:	Low flow				
Notes:		^					

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)	
3:35 PM	0.00	750	8.62	7.80	0.08	12.81	-24.0	86.72	6.69	Clear	None	
3:40 PM	1.00	750	8.57	6.99	1723.75	0.27	-105.0	10.72	6.69	Clear	None	
3:45 PM	2.00	750	8.43	6.98	1758.68	0.12	-110.6	14.85	6.69	Clear	None	
3:50 PM	3.00	750	8.34	6.99	1793.90	0.10	-112.4	19.28	6.69	Clear	None	
3:55 PM	4.00	750	8.12	7.00	1785.21	0.07	-115.5	24.70	6.69	Clear	None	
4:00 PM	5.00	750	7.98	7.00	1777.68	0.06	-116.9	21.40	6.69	Clear	None	
4:05 PM	6.00	750	7.82	7.00	1800.42	0.06	-118.4	21.89	6.69	Clear	None	
4:10 PM	7.00	750	7.63	7.01	1839.56	0.05	-119.8	29.96	6.69	Clear	None	
4:15 PM	8.00	750	7.44	7.01	1826.07	0.05	-121.1	33.13	6.69	Clear	None	
4:20 PM	9.00	750	7.23	7.01	1820.27	0.05	-122.0	26.27	6.69	Clear	None	
4:25 PM	10.00	750	6.97	7.01	1825.72	0.05	-123.2	26.71	6.69	Clear	None	
4:30 PM	11.00	750	6.83	7.02	1840.34	0.05	-124.0	29.64	6.69	Clear	None	
4:35 PM	12.00	750	6.78	7.01	1844.44	0.06	-124.4	28.15	6.69	Clear	None	

Client: NYSDEC Project #: 60411174 Site: Pfohl Brothers Landfill Event: November 2024 Annual Sampling **Sample Information** Sample ID: GW-28S-241121 Date: 11/21/2024 3:10:00 PM Well ID: **GW-28S** Location Type: MONITORING WELL Duplicate ID: Sampler: HorrocksC Equipment: Field parameter: AquaTroll # 808878 WL/int meter: Solinst 101 # 29962 Analysis: VOCs, SVOCs, Metals Comments: Water Level

Date:	11/21/2024 2:30:00 PM	Measured Well Depth:	15.52
Screen Interval:	-	Total Depth:	
Is Well Dry?	No	Depth to DNAPL:	NE
Depth to Water:	11.02	Depth to LNAPL:	NE
Notes:			

Purge Information								
Begin Date and Time:	11/21/2024 2:35:00 PM	End Date and Time:	11/21/2024 3:10:00 PM					
Purge Method:	Low flow (pump : Peristaltic)	Sample Method:	Low flow					
Notes:		·						

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)	
2:35 PM	0.00	160	10.15	7.46	2.52	11.94	-88.3	1.80	11.02	Red	None	
2:40 PM	0.20	160	9.91	7.22	722.20	2.48	-61.2	1764.2 7	11.27	Red	None	
2:45 PM	0.40	160	9.61	7.19	685.84	2.14	-49.1	250.36	11.53	Clear	None	
2:50 PM	0.60	160	9.34	7.20	745.25	1.86	-40.6	124.60	11.68	Clear	None	
2:55 PM	0.80	160	9.15	7.19	759.41	1.29	-43.5	68.92	11.83	Clear	None	
3:00 PM	1.00	160	8.92	7.18	767.35	0.91	-47.5	10.21	12.00	Clear	None	
3:05 PM	1.20	160	8.97	7.19	772.15	0.93	-42.0	7.38	12.15	Clear	None	
3:10 PM	1.40	160	8.84	7.18	771.23	0.94	-37.7	9.72	12.17	Clear	None	

Client: NYSDEC Project #: 60411174 Site: Pfohl Brothers Landfill Event: November 2024 Annual Sampling **Sample Information** Sample ID: GW-29S-241122 Date: 11/22/2024 8:55:00 AM Well ID: **GW-29S** Location Type: MONITORING WELL Duplicate ID: Sampler: HorrocksC Equipment: Field parameter: AquaTroll # 808878 WL/int meter: Solinst 101 # 29962 Analysis: VOCs, SVOCs, Metals Comments:

Water Level			
Date:	11/22/2024 8:08:00 AM	Measured Well Depth:	20.04
Screen Interval:	-	Total Depth:	
Is Well Dry?	No	Depth to DNAPL:	NE
Depth to Water:	9.90	Depth to LNAPL:	NE
Notes:			

Purge Information								
Begin Date and Time:	11/22/2024 8:14:00 AM	End Date and Time:	11/22/2024 8:55:00 AM					
Purge Method:	Low flow (pump : Peristaltic)	Sample Method:	Low flow					
Notes:								

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)
8:15 AM	0.00	160	9.57	6.97	730.13	7.85	40.9	229.97	9.90	Cloudy	None
8:20 AM	0.20	160	8.62	7.12	789.12	0.47	-82.6	156.89	10.94	Cloudy	None
8:25 AM	0.40	160	7.74	7.05	869.47	0.36	-128.2	88.12	11.35	Clear	None
8:30 AM	0.60	160	7.19	7.03	864.67	0.34	-137.1	54.73	11.63	Clear	None
8:35 AM	0.80	160	6.80	7.01	803.88	0.34	-154.4	26.49	11.98	Clear	None
8:40 AM	1.00	160	6.57	7.00	914.21	0.26	-151.0	20.16	12.10	Clear	None
8:45 AM	1.20	160	6.27	6.99	841.86	0.22	-170.6	16.02	12.27	Clear	None
8:50 AM	1.40	160	6.15	6.99	828.46	0.22	-169.2	15.29	12.39	Clear	None
8:55 AM	1.60	160	6.02	6.99	832.46	0.22	-169.8	14.36	12.50	Clear	None

GROUNDWATER SAMPLING LOG AECOM

Client: NYSDEC Project #: 60411174 Pfohl Brothers Landfill **Sample Information** Sample ID: GW-30S-241122 Date: 11/22/2024 9:08:00 AM Well ID: **GW-30S** Location Type: MONITORING WELL Duplicate ID: Sampler: HorrocksC Equipment: Field parameter: AquaTroll # 808878 WL/int meter: Solinst 101 # 29962

Analysis: VOCs, SVOCs, Metals

Comments:

Water Level						
Date:	11/22/2024 9:08:00 AM	Measured Well Depth:	17.97			
Screen Interval:	-	Total Depth:				
Is Well Dry?	No	Depth to DNAPL:	NE			
Depth to Water:	7.91	Depth to LNAPL:	NE			
Notes:						

Purge Information							
Begin Date and Time:	11/22/2024 9:14:00 AM	End Date and Time:	11/22/2024 9:55:00 AM				
Purge Method:	Low flow (pump : Peristaltic)	Sample Method:	Low flow				
Notes:							

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)
9:15 AM	0.00	225	5.61	6.87	2638.37	3.42	-185.2	165.69	7.95	Cloudy	None
9:20 AM	0.30	225	12.30	6.87	2236.29	0.47	-194.2	65.83	7.95	Clear	None
9:25 AM	0.60	225	12.46	6.88	2238.92	0.32	-188.0	35.58	7.95	Clear	None
9:30 AM	0.90	225	12.54	6.88	2247.94	0.28	-183.9	41.84	7.95	Clear	None
9:35 AM	1.20	225	12.56	6.88	2250.54	0.26	-181.2	32.49	7.95	Clear	None
9:40 AM	1.50	225	12.66	6.88	2244.96	0.23	-181.2	28.33	7.95	Clear	None
9:45 AM	1.80	225	12.63	6.88	2248.21	0.25	-180.1	16.27	7.95	Clear	None
9:50 AM	2.10	225	12.74	6.88	2253.14	0.25	-179.3	16.94	7.95	Clear	None
9:55 AM	2.40	225	12.62	6.88	2252.66	0.26	-179.2	15.57	7.95	Clear	None

Site:

Event: November 2024 Annual Sampling

Client: NYSDEC Project #: 60411174 Site: Pfohl Brothers Landfill Event: November 2024 Annual Sampling **Sample Information** Sample ID: GW-31S-241122 Date: 11/22/2024 10:35:00 AM Well ID: GW-31S Location Type: MONITORING WELL Duplicate ID: Sampler: HorrocksC Equipment: Field parameter: AquaTroll # 808878 WL/int meter: Solinst 101 # 29962 Analysis: VOCs, SVOCs, Metals

Comments:

Water Level			
Date:	11/22/2024 10:05:00 AM	Measured Well Depth:	9.57
Screen Interval:	-	Total Depth:	
Is Well Dry?	No	Depth to DNAPL:	NE
Depth to Water:	7.82	Depth to LNAPL:	NE
Notes:			

Purge Information									
Begin Date and Time:	11/22/2024 10:09:00 AM	End Date and Time:	11/22/2024 10:35:00 AM						
Purge Method:	Low flow (pump : Peristaltic)	Sample Method:	Low flow						
Notes:									

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)	
10:10 AM	0.00	150	9.58	7.59	1.46	11.82	-118.5	31.84	7.82	Clear	None	
10:15 AM	0.20	150	10.59	6.89	515.50	0.77	-68.5	25.62	8.54	Clear	None	
10:20 AM	0.40	150	10.81	6.87	517.29	0.48	-97.8	6.90	8.94	Clear	None	
10:25 AM	0.60	150	10.90	6.87	525.00	0.33	-147.0	2.50	9.15	Clear	None	
10:30 AM	0.80	150	10.99	6.88	527.33	0.31	-147.9	2.35	9.23	Clear	None	
10:35 AM	1.00	150	10.86	6.92	530.32	0.30	-155.3	2.42	9.31	Clear	None	

GROUNDWATER SAMPLING LOG AECOM

Site:

Client: NYSDEC Project #: 60411174 Pfohl Brothers Landfill Event: November 2024 Annual Sampling **Sample Information** Sample ID: GW-32S-241122 Date: 11/22/2024 11:55:00 AM Well ID: GW-32S MONITORING WELL Location Type:

Duplicate ID:		Sampler:	HorrocksC
Equipment:	Field parameter: AquaTroll # 808878 WL/int m	neter: Solinst 101 # 29962	
Analysis:	VOCs, SVOCs, Metals		
Comments:			

Water Level								
Date:	11/22/2024 11:03:00 AM	Measured Well Depth:	9.93					
Screen Interval:	-	Total Depth:						
Is Well Dry?	No	Depth to DNAPL:	NE					
Depth to Water:	6.81	Depth to LNAPL:	NE					
Notes:								

Purge Information										
Begin Date and Time:	11/22/2024 11:12:00 AM	End Date and Time:	11/22/2024 11:55:00 AM							
Purge Method:	Low flow (pump : Peristaltic)	Sample Method:	Low flow							
Notes:		·								

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)	
11:15 AM	0.00	160	11.34	7.53	406.55	6.38	-62.1	43.66	6.91	Clear	None	
11:20 AM	0.20	150	11.58	7.49	400.59	4.80	-48.0	14.27	7.22	Clear	None	
11:25 AM	0.40	150	11.76	7.44	393.37	3.33	-39.4	14.87	7.26	Clear	None	
11:30 AM	0.60	150	11.79	7.37	386.91	1.80	-35.2	22.16	7.28	Clear	None	
11:35 AM	0.80	150	11.81	7.34	385.23	1.09	-33.3	13.81	7.28	Clear	None	
11:40 AM	1.00	150	11.75	7.33	384.57	0.62	-31.0	4.45	7.28	Clear	None	
11:45 AM	1.20	150	11.76	7.32	383.62	0.31	-29.6	2.71	7.28	Clear	None	
11:50 AM	1.40	150	11.86	7.32	382.26	0.32	-28.8	2.34	7.28	Clear	None	
11:55 AM	1.60	150	11.77	7.31	382.73	0.31	-28.0	2.15	7.28	Clear	None	

Client: NYSDEC Project #: 60411174 Site: Pfohl Brothers Landfill Event: November 2024 Annual Sampling **Sample Information** Sample ID: GW-33S-241122 Date: 11/22/2024 12:45:00 PM Well ID: **GW-33S** Location Type: MONITORING WELL Duplicate ID: Sampler: HorrocksC Equipment: Field parameter: AquaTroll # 808878 WL/int meter: Solinst 101 # 29962 Analysis: VOCs, SVOCs, Metals Comments: Water Level

Date:	11/22/2024 12:12:00 PM	Measured Well Depth:	8.21
Screen Interval:	-	Total Depth:	
Is Well Dry?	No	Depth to DNAPL:	NE
Depth to Water:	4.54	Depth to LNAPL:	NE
Notes:			

Purge Information									
Begin Date and Time:	11/22/2024 12:17:00 PM	End Date and Time:	11/22/2024 12:45:00 PM						
Purge Method:	Low flow (pump : Peristaltic)	Sample Method:	Low flow						
Notes:		^							

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)	
12:20 PM	0.00	150	9.97	7.39	471.80	10.15	6.3	11.85	4.54	Clear	None	
12:25 PM	0.20	150	10.13	7.33	477.20	5.93	13.0	5.33	5.75	Clear	None	
12:30 PM	0.40	150	10.89	7.33	469.86	4.83	15.5	2.58	5.87	Clear	None	
12:35 PM	0.60	150	11.03	7.31	470.92	4.74	17.6	2.86	5.92	Clear	None	
12:40 PM	0.80	150	10.99	7.28	475.20	4.71	20.0	1.96	6.09	Clear	None	
12:45 PM	1.00	150	10.96	7.26	476.37	4.73	21.4	2.27	6.15	Clear	None	

Client: NYSDEC Project #: 60411174 Site: Pfohl Brothers Landfill Event: November 2024 Annual Sampling **Sample Information** Sample ID: GW-34S-241121 Date: 11/21/2024 10:15:00 AM Well ID: **GW-34S** Location Type: MONITORING WELL Duplicate ID: Sampler: HorrocksC Equipment: Field parameter: AquaTroll # 808878 WL/int meter: Solinst 101 # 29962 Analysis: VOCs, SVOCs, Metals Comments: Water Level

Trator Eovor			
Date:	11/21/2024 9:20:00 AM	Measured Well Depth:	10.01
Screen Interval:	-	Total Depth:	
Is Well Dry?	No	Depth to DNAPL:	NE
Depth to Water:	5.65	Depth to LNAPL:	NE
Notes:			

Purge Information									
Begin Date and Time:	11/21/2024 9:24:00 AM	End Date and Time:	11/21/2024 10:15:00 AM						
Purge Method:	Low flow (pump : Peristaltic)	Sample Method:	Low flow						
Notes:		'							

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)	
9:25 AM	0.00	160	10.40	6.96	1115.20	10.16	5.4	13.38	5.65	Clear	None	
9:30 AM	0.20	160	10.48	6.79	1199.07	0.53	9.4	6.86	5.94	Clear	None	
9:35 AM	0.40	160	10.41	6.90	1186.75	2.48	14.3	7.41	6.08	Clear	None	
9:40 AM	0.60	160	10.35	6.99	1127.07	5.21	22.1	4.89	6.25	Clear	None	
9:45 AM	0.80	160	10.26	6.95	1183.65	4.02	20.9	7.71	6.48	Clear	None	
9:50 AM	1.00	160	10.04	6.91	1243.22	2.42	-8.2	4.00	8.10	Clear	None	
9:55 AM	1.20	160	9.83	6.85	1327.71	1.44	-83.6	2.58	7.02	Clear	None	
10:00 AM	1.40	160	9.61	6.82	1380.87	0.72	-112.0	2.20	7.21	Clear	None	
10:05 AM	1.60	160	9.40	6.81	1402.44	0.51	-112.5	3.01	7.45	Clear	None	
10:10 AM	1.80	160	9.38	6.81	1414.92	0.47	-109.2	3.66	7.58	Clear	None	
10:15 AM	2.00	160	9.53	6.81	1409.72	0.49	-105.2	3.19	7.70	Clear	None	

Site:	Pfohl Brothers Landfill		Event: November 2024 Annual Sampling					
Sample Inform	nation	-						
Sample ID:	GW-35S-241121	Date:	11/21/2024 5:15:00 PM					
Well ID:	GW-35S	Location Type:	MONITORING WELL					
Duplicate ID:		Sampler:	HorrocksC					
Equipment:	Field param meter: AquaTroll # 808878 WL/in	t meter: Solinst 101 # 29962						
Analysis:	VOCs, SVOCs, Metals							
Comments:								
Water Level								
Date:	11/21/2024 4:34:00 PM	Measured Well Depth:	7.46					
Screen Interval:	-	Total Depth:						
Is Well Dry?	No	Depth to DNAPL:	NE					
Depth to Water:	6.15	Depth to LNAPL:	NE					

Project #: 60411174

Notes:

Client:

NYSDEC

Purge Information										
Begin Date and Time:	11/21/2024 4:38:00 PM	End Date and Time:	11/21/2024 5:15:00 PM							
Purge Method:	Low flow (pump : Peristaltic)	Sample Method:	Low flow							
Notes:										

Time	Cumulative Purge Volume (gal)	Purge Rate (ml/min)	Temperatue (deg c)	(ns) Hd	Specific Conductance (us/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (millivolts)	Turbidity (ntu)	Depth to Water (ft)	Color (none)	Odor (none)	
4:40 PM	0.00	150	6.62	7.18	663.51	2.58	-66.5	3.05	6.30	Clear	None	
4:45 PM	0.20	150	6.59	7.12	661.86	2.29	-55.5	5.18	6.36	Clear	None	
4:50 PM	0.40	150	6.44	7.15	654.20	1.76	-44.1	3.60	6.45	Clear	None	
4:55 PM	0.60	150	6.27	7.16	706.33	1.38	-40.6	1.97	6.48	Clear	None	
5:00 PM	0.80	150	6.13	7.16	725.08	1.49	-38.8	2.15	6.52	Clear	None	
5:05 PM	1.00	150	5.98	7.16	666.71	1.61	-39.0	1.95	6.52	Clear	None	
5:10 PM	1.20	150	5.86	7.17	660.35	1.73	-40.9	1.92	6.52	Clear	None	
5:15 PM	1.40	150	5.74	7.16	661.65	1.64	-44.5	1.90	6.52	Clear	None	

GROUNDWATER SAMPLING - SAMPLE COLLECTION DATA SHEET

Project Name:	Pfohl Brothers Landfill	Project Number:	60411174	
Sampling Crew Members:	<u>R. Murphy, C.Horrocks, C. Finn</u>	Supervisor:	<u>R. Murphy</u>	
Date of Sampling:	<u>November 20, 2024</u>			

Sample I.D. Number	Well Number	Well Volume (gallons)	Volume Purged (gallons)	Sample Time	Sample Description	Analysis Required	Chain-of- Custody Number	
GW-07D-241120	GW-07D	18.3	18.3	10:10	Groundwater	VOCs	Not Applicable	
GW-07S-241120	GW-07S	4.8	7.0	11:35	Groundwater	V003	Not Applicable	
GW-01D-241120	GW-01D	23.7	11.1	13:40	Groundwater	VOCs/SVOCs/	Not Applicable	
GW-01S-241120	GW-01S	1.6	2.3	14:30	Groundwater	Metals	Not Applicable	
GW-04S-241120-PDB	GW-04S	1.7	3.0	14:50	Groundwater	VOCs	Not Applicable	
GW-04D-241120	GW-04D	21.8	2.4	16:15	Groundwater	VOCs/SVOCs/Metals	Not Applicable	
GW-04S-241120	GW-04S	1.7	3.0	16:30	Groundwater	SVOCs/Metals	Not Applicable	
Additional Comments: All wells were purged using low flow methods until parameter stabilization with the exception of wells								

GW-04S, GW-07D, and GW-07S that were sampled for VOCs using passive diffusion bags (PDBs). GW-04S, GW-07D, and GW-07S were then purged dry. Remaining parameters were collected after recovery at GW-04S.

GROUNDWATER SAMPLING - SAMPLE COLLECTION DATA SHEET

Pro	ject Name:			Pfohl Brothers Lan	<u>dfill</u>	Project Number:		
Sampling Crew Members:				<u>C.Horrocks, C. Fin</u>	<u>n</u>	Supervisor: <u><i>R. Murphy</i></u>		
Dat	e of Sampling:			<u>November 21, 202</u>	<u>24</u>			
	Sample I.D. Number	Well Number	Well Volume (gallons)	Volume Purged (gallons)	Sample Time	Sample Description	Analysis Required	Chain-of- Custody Number
	GW-07D-241121	GW-07D	18.3	18.3	8:45	Groundwater	SVOCs/ Metals (+dissolved @ GW-07D)	Not Applicable
	GW-07S-241121	GW-07S	4.8	7.0	8:55	Groundwater		Not Applicable
	GW-34S-241121	GW-34S	0.7	2.0	10:15	Groundwater		Not Applicable
	GW-03D-241121	GW-03D	22.4	12.0	11:45	Groundwater		Not Applicable
	FD-11212024	GW-03D	22.4	12.0	-	Duplicate	VOCs/SVOCs/ Metals	Not Applicable
	GW-08D-241121	GW-08D	20.3	12.0	13:15	Groundwater		Not Applicable
	GW-08D-241121	GW-08D	20.3	12.0	13:15	Matrix Spike		Not Applicable

Additional Comments:

GW-07D and GW-07S were sampled for SVOCs and Metals after recharging overnight. All other wells were purged using low flow methods until parameter stabilization.

GROUNDWATER SAMPLING - SAMPLE COLLECTION DATA SHEET Project Name: Pfohl Brothers Landfill Project Number: 60411174 Sampling Crew Members: Supervisor: C.Horrocks, C. Finn R. Murphy Date of Sampling: November 21, 2024 Chain-of-Well Volume Purged Sample I.D. Sample Analysis Well Volume Sample Time Custody (gallons) Description Required Number Number (gallons) Number GW-08D-241121 GW-08D 20.3 12.0 13:15 Spike Duplicate Not Applicable GW-08SR-241121 GW-08SR Not Applicable 1.3 1.9 14:05 Groundwater VOCs/SVOCs/ Not Applicable GW-28S-241121 GW-28S 0.8 1.4 15:10 Groundwater Metals GW-26D-241121 GW-26D 22.4 16:35 Groundwater Not Applicable 12.0 Not Applicable GW-35S-241121 **GW-35S** 0.2 1.4 17:15 Groundwater Not Applicable VOCs Trip Blank (11/20 and 11/21) Trip Blank ----

Additional Comments:

All wells were purged using low flow methods until parameter stabilization.

GROUNDWATER SAMPLING - SAMPLE COLLECTION DATA SHEET Project Name: Pfohl Brothers Landfill Project Number: 60411174 Sampling Crew Members: Supervisor: C.Horrocks, C. Finn R. Murphy Date of Sampling: November 22, 2024 Chain-of-Well Volume Purged Sample I.D. Sample Analysis Well Volume Sample Time Custody (gallons) Description Required Number Number (gallons) Number GW-29S GW-29S-241122 1.7 1.6 8:55 Groundwater Not Applicable GW-30S Not Applicable GW-30S-241122 1.7 2.4 9:55 Groundwater VOCs/SVOCs/ Not Applicable GW-31S-241122 GW-31S 0.3 1.0 10:35 Groundwater Metals GW-32S GW-32S-241122 0.5 11:55 Groundwater Not Applicable 1.6 Not Applicable GW-33S-241122 GW-33S 0.6 1.0 12:45 Groundwater Not Applicable Trip Blank (11/22/24) VOCs Trip Blank ----

Additional Comments:

All wells were purged using low flow methods until parameter stabilization.

Appendix E Groundwater Trend Analysis

FIGURE E-1 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-01D



FIGURE E-2 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-01S


FIGURE E-3 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-03D



FIGURE E-3 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-03D



FIGURE E-4 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-03S



FIGURE E-4 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-03S



FIGURE E-5 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-04D



FIGURE E-5 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-04D



FIGURE E-6 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-04S



FIGURE E-7 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-07D



FIGURE E-7 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-07D



FIGURE E-7 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-07D



FIGURE E-8 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-07S



FIGURE E-9 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-08D



FIGURE E-10 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-08SR



FIGURE E-11 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-26D



FIGURE E-12 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-28S



FIGURE E-13 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-29S



FIGURE E-13 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-29S



FIGURE E-14 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-30S



FIGURE E-15 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-31S



FIGURE E-16 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-32S



FIGURE E-17 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-33S



FIGURE E-18 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-34S



FIGURE E-19 TRENDS OF PARAMETERS HISTORICALLY EXCEEDING GROUNDWATER STANDARDS IN MONITORING WELL GW-35S



Appendix F BSA Permit 22-07-CH016

AUTHORIZATION TO DISCHARGE UNDER THE ERIE COUNTY/BUFFALO POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT NUMBER: 22-07-CH016

USEPA Category: 40 CFR 403

In accordance with the provisions of the Federal Water Pollution Control Act, as amended, the Sewer Regulations of the Buffalo Sewer Authority, authorization is hereby granted to:

THE TOWN OF CHEEKTOWAGA

To discharge wastewater from a facility located at:

PFOHL BROTHERS LANDFILL REMEDIATION SITE

1000 AERO DRIVE

CHEEKTOWAGA, NEW YORK 14225

The wastewater permitted herein shall be discharged to the Town of Cheektowaga sewer system, which is connected to the Buffalo Municipal Sewer System and Treatment facilities, and which wastewater will be treated at the Buffalo Sewer Authority's Treatment Plant.

Issuance of this permit is based upon a permit application filed on **March 21, 2022** analytical data. This permit is granted in accordance with discharge limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

RECEIVED

Effective this 1st day of July, 2022

MAY 0 2 2022 ENGINEERING DEPT.

To Expire the 30th day of June, 2025

General Manager, Buffalo Sewer Authority

Issued this 22^{2} day of Aeel, 2022

PART 1: SPECIFIC CONDITIONS

A. DISCHARGE LIMITATIONS & MONITORING REQUIREMENTS

During the period beginning the effective date of this permit and lasting until the expiration date, discharge from the permitted facility outfall(s) (see attached map) shall be limited and monitored **quarterly** by the permittee as specified below:

Sampling for the pollutants below will be conducted at Sample 001.

Sample Point 001 is a sampling port located in meter chamber- effluent from MH-25

Sample Point 001 Local Limits

Regulation		Discharge	Discharge	Discharge	Discharge	M.A.I.D	Sampling	Sampling
		Limit	Limit	Limit	Limit		Requirement	Requirement
	Parameter	Daily	Daily ⁽²⁾	Monthly	Monthly	•	Time Period	Type ⁽¹⁾
	ŕ							
			B. (11.)	6				
		Conc.	Mass (lbs)	Conc.	iviass (ibs)			
		mg/L)		(mg/L)		V	1 Davi	Crah
403	рн (s.u.)	5.0-12.0	X	X	X	×	трах	Grab
403	Total	x	0.23	X	x	X	1 Day	Composite
-105	Cadmium ⁽³⁾		0.20					
	Caaman							
403	Total	Х	1.17	Х	Х	Х	1 Day	Composite
	Chromium							
	(3)							
403	Total	Х	3.74	Х	X	X	1 Day	Composite
	Copper ⁽³⁾							
								-
403	Total Lead	Х	1.17	X	X	X	1 Day	Composite
	(3)							
403	Total	x	3.27	X	X	Х	1 Dav	Composite
	Nickel ⁽³⁾		U.L.				· · · ·	
403	Total Zinc	Х	5.84	Х	X	Х	1 Day	Composite
	(3)							
403	Total	Х	23.4	Х	Х	Х	1 Day	Composite
	Barium ⁽³⁾							
403	Total	250	X	Х	X	X	1 Day	Composite
	Suspended							
	Solids ^{(3) (4)}							
403	Discharge	187,898	X	X	X	X	1 Day	Meter ⁽⁸⁾
	Flow ⁽⁷⁾	GPD						
1			1	1	1	1		

Permit #: 22-07-CH016

Part 1

PART 1: SPECIFIC CONDITIONS

A. DISCHARGE LIMITATIONS & MONITORING REQUIREMENTS (Continued)

During the period beginning the effective date of this Permit and lasting until the expiration date, discharge from the permitted facility outfall (see attached map) shall be limited and monitored **once** by the permittee as specified below.

403	Total Mercury ⁽³⁾	X	0.001	X	X	X	1 Day	Composite
403	USEPA Test Method 608 ⁽⁶⁾	To be monitored	X	Х	X	х	1 Day	Grab ⁽⁵⁾
403	USEPA Test Method 624 ⁽⁶⁾	To be monitored	X	X	X	X	1 Day	Grab ⁽⁵⁾
403	USEPA Test Method 625 ⁽⁶⁾	To be monitored	X	X	X	Х	1 Day	Grab ⁽⁵⁾

PART 1: SPECIFIC CONDITIONS

B. Footnotes:

- 1. Sampling Requirement, Sampling Type:
 - a. Grab sample: A single discreet sample collected over a period that is not to exceed 15 minutes.
 - b. Composite sample: The two methods of obtaining a composite sample are flowproportional composite sampling or time-proportional composite sampling. Please indicate the sampling method utilized.
- 2. Mass limits based on an average discharge of 28,000 gpd.
- 3. The Discharge Limitation for these parameters are local discharge limits that the Buffalo Sewer Authority has developed to protect the Bird Island Treatment Plant.
- 4. Surchargeable over 250 mg/L.
- 5. Four grab samples must be collected at equally spaced intervals throughout the sample day. The four (4) grab samples must be composited by a NYSDOH certified laboratory prior to analysis.
- 6. The permittee must report any compound whose concentration is equal to or greater than 0.01 mg/L. The permittee is not authorized to discharge any of the parameters evaluated by these test procedures which may cause or contribute to a violation of water quality standards or harm the sewerage system. Any parameter detected may, at the discretion of the BSA, be specifically limited and incorporated in this permit.
- 7. Flow is an action level only. If the permittee consistently exceeds this level, the BSA must be notified so that this permit can be modified.
- 8. The discharge flow meter shall be calibrated by a certified independent contractor on an annual basis.

PART 1: SPECIFIC CONDITIONS

C. DISCHARGE MONITORING REPORTING REQUIREMENTS

1. During the period beginning the effective date of this permit lasting until the expiration date, discharge monitoring results shall be summarized and reported <u>semi-annually</u> by the permittee on the days specified below:

Sample Point	Parameter	Initial Report	Subsequent Reports
001	All except USEPA Test Methods 608, 624, 625, & T. Mercury	June 30, 2022	Every March 31 st , June30 th , September 30 th and December 31 st

2. During the period beginning the effective date of this Permit and lasting until the expiration date, discharge from the permitted facility outfall (see attached map) shall be limited and monitored **once** by the permittee as specified below.

Sample Point	Parameter	Initial Report	Subsequent Reports	
001	USEPA Test Methods 608,	June 30, 2022		
	624, 625, & T.			
	Mercury			



Part 1

Page 6 of 6

Part I: SPECIFIC CONDITIONS

AG17823-



TOWN OF CHEEKTOWAGA/BUFFALO POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PART II GENERAL CONDITIONS

A. MONITORING AND REPORTING

1. Local Limits

Except as otherwise specified in this permit, the permit holder shall comply with all specific prohibitions, limits on pollutants or pollutant parameters set forth in the Buffalo Sewer Authority Sewer Use Regulations, as amended from time to time, and such prohibitions, limits and parameters shall be deemed pretreatment standards for purposes of the Clean Water Act

2. Definitions

Definitions of terms contained in this permit are as defined in the Town of Cheektowaga Local Law No. 2 and the Buffalo Sewer Authority Sewer Use Regulations.

3. Discharge Sampling Analysis

All Wastewater discharge samples and analyses and flow measurements shall be representative of the volume and character of the monitored discharge. Methods employed for flow measurements and sample collections and analyses shall conform to the Buffalo Sewer Authority "Sampling Measurement and Analytical Guidelines Sheet."

4. **Recording of Results**

For each measurement or sample taken pursuant to the requirements of the permit, the Permittee shall record the information as required in the "Sampling Measurement and Analytical Guidelines Sheet."

5. Additional Monitoring by Permittee

If the Permittee monitors any pollutants at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified in 40 CFR Part 136 the results of such monitoring shall be included in the calculation and reporting of values required under Part I, B. Such increased frequency shall also be indicated.

6. Reporting

All reports prepared in accordance with this Permit shall be submitted to:

Patrick Bowen, P.E. Town Engineer 275 Alexander Ave. Cheektowaga, New York, 14211

All self-monitoring reports shall be prepared in accordance with the BSA "Sampling Measurement and Analytical Guidelines Sheet." These reporting requirements shall not relieve the Permittee of any other reports, which may be required by the

N.Y.S.D.E.C. or the U.S.E.P.A.

B. PERMITTEE REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit and with the information contained in the TC/BPDES Permit Application on which basis this permit is granted. In the event of any facility expansions, production increases, process modifications or the installation, modification or repair of any pretreatment equipment which may result in new, different or increased discharges of pollutants, a new TC/BPDES Permit Application must be submitted prior to any change. Following receipt of an amended application, the BSA may modify this permit to specify and limit any pollutants not previously limited. In the event that the proposed change will be covered under an applicable Categorical Standard, a Baseline Monitoring Report must be submitted at least ninety (90) days prior to any discharge.

2. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed, calibration and maintenance of instrumentation, and recordings from continuous monitoring instrumentation shall be retained at this facility for a minimum of three (3) years, or longer if requested by the General Manager and/or Town Engineer.

3. Notification of Slug, Accidental Discharge or Spill

In the event that a slug, accidental discharge or any spill occurs at the facility for which this permit is issued, it is the responsibility of the Permittee to immediately notify the B.S.A. Treatment Plant at 851-4664 ext 5374 of the quantity and character of such discharge. If requested by the B.S.A., within five (5) days following all such discharges, the Permittee shall submit a report describing the character and duration of the discharge, the cause of the discharge, and measures taken or that will be taken to prevent a recurrence of such discharge.

4. Noncompliance Notification

If, for any reason, the Permittee does not comply with or will be unable to comply with any discharge limitation specified in this permit, the Permittee or their assigns must verbally notify the Industrial Waste Section at 851-4664 ext 5374 within twenty-four (24) hours of becoming aware of the violation. The Permittee shall provide the Industrial Waste Section with the following information, in writing, within five (5) days of becoming aware of such condition:

- a. a description of the discharge and cause of noncompliance and;
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

5. Adverse Impact

The Permittee shall take all reasonable steps to minimize any adverse impact to the Buffalo and Town Sewerage System resulting from noncompliance with any discharge limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

6. Waste Residuals

Solids, sludges, filter backwash or other pollutants removed in the course of treatment or control of wastewaters and/or the treatment of intake waters, shall be disposed of in a manner such as to prevent any pollutant from such materials from entering the Buffalo or Town Sewer System.

7. **Power Failures**

In order to maintain compliance with the discharge limitations and prohibitions of this permit, the Permittee shall provide an alternative power source sufficient to operate the wastewater control facilities; or, if such alternative power source is not provided the Permittee shall halt, reduce or otherwise control production and/or controlled discharges upon the loss of power to the wastewater control facilities.

8. Treatment Upsets

- a. Any industrial user which experiences an upset in operations that places it in a temporary state of noncompliance, which is not the result of operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation, shall inform the Industrial Waste Section immediately upon becoming aware of the upset. Where such information is given verbally, a written report shall be filed by the user within five (5) days. The report shall contain:
 - (i) A description of the upset, its cause(s) and impact on the discharger's compliance status.
 - (ii) The duration of noncompliance, including exact dates and times of noncompliance, and if the noncompliance is continuing, the time by which compliance is reasonably expected to be restored
 - (iii) All steps taken or planned to reduce, eliminate, and prevent recurrence of such an upset.
- b. An industrial user which complies with the notification provisions of this Section in a timely manner shall have an affirmative defense to any enforcement action brought by the Industrial Waste Section/Town Engineer for any noncompliance of the limits in this permit, which arises out of violations attributable to and alleged to have occurred during the period of the documented and verified upset.

9. Treatment Bypasses

- a. A bypass of the treatment system is prohibited unless the following conditions are met:
 - (i) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; or
 - (ii) There was no feasible alternative to the bypass, including the use of auxiliary treatment or retention of the wastewater; and
 - (iii) The industrial user properly notified the Industrial Waste Section as described in paragraph b. below.
- b. Industrial users must provide immediate notice to the Industrial Waste Section upon delivery of an unanticipated bypass. If necessary, the Industrial Waste Section may require the industrial user to submit a written report explaining the cause(s), nature, and duration of the bypass, and the steps being taken to prevent its recurrence.
- c. An industrial user may allow a bypass to occur which does not cause pretreatment standards or requirements to be violated, but only if it is for essential maintenance to ensure efficient operation of the treatment system. Industrial users anticipating a bypass must submit notice to the Industrial Waste Section at least ten (10) days in advance. The Industrial Waste Section may only approve the anticipated bypass if the circumstances satisfy those set forth in paragraph a. above.

C. PERMITTEE RESPONSIBILITIES

1. **Permit Availability**

The originally signed permit must be available upon request at all times for review at the address stated on the first page of this permit.

2. Inspections

The Permittee shall allow the representatives of the Buffalo Sewer Authority or Town of Cheektowaga upon the presentation of credentials and during normal working hours or at any other reasonable times, to have access to and copy any records required in this permit; and to sample any discharge of pollutants.

3. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities for which this permit has been issued the permit shall become null and void. The succeeding owner shall submit a completed Town of Cheektowaga/ Buffalo Sewer Authority permit application prior to discharge to the sewer system.

D. PERMITTEE LIABILITIES

1. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to the following:

- a. Violation of any terms or conditions of this permit,
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts,
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

2. Imminent Danger

In the event there exists an imminent danger to health or property, the permitter reserves the right to take immediate action to halt the permitted discharge to the sewerage works.

3. Civil and Criminal Liability

Nothing in this permit shall relieve the Permittee from any requirements, liabilities, or penalties under provisions of the Town of Cheektowaga Local Law No. 2, the "Sewer Regulations of the Buffalo Sewer Authority" or any Federal, State and/or local laws or regulations.

4. Penalties for Violations of Permit Conditions

The "Sewer Regulations of the Buffalo Sewer Authority" and Town of Cheektowaga Local Law No. 2, provide that any person who violates a B.P.D.E.S. permit condition is liable to the Authority and/or the Town for a civil penalty of up to \$10,000 per day for each violation. Any person who willfully or negligently violates permit conditions will be referred to the New York State Attorney General.

E. NATIONAL PRETREATMENT STANDARDS

If a pretreatment standard or prohibition (including any Schedule of Compliance specified in such pretreatment standard or prohibition) is established under Section 307 (b) of the Act for a pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with such pretreatment standard or prohibition.

F. PLANT CLOSURE

In the event of plant closure, the Permittee is required to notify the Industrial Waste Section/Town Engineer in writing as soon as an anticipated closure date is determined, but in no case later than five (5) days of the actual closure.

G. CONFIDENTIALITY

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Except for data determined to be confidential under Section 308 of the Act, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Buffalo Sewer Authority or Town Engineer of the Town of Cheektowaga. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act.

H. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
Appendix G Discharge Report Summary Tables

SAMPLING FIELD SHEET



Client Name.	Pfohl Brothers	s Landfill			
Address:	Aero Drive, C	heektowag	ja, NY		
Contact:	Patrick T. Bov	ven, P.E.	Phone:	716-897-7288	
Installation:					
Sample Point:	SP-001				
Sample Locatio	n: Meter	Chamber	- ball valve on 6" HD	PE forcemain	
Date:	3/13/24	Crew:	R. Murphy, T. Urban		
Weather:	57 °F, clear				
Sampling Devic	e: NA				
Time of Installa	tion: <u>11</u>	:15	Type of Sample:	Composite	
Sample Interval	:: <u> </u>	IA	Sample Volume:	NA	
VV VV-04 (70	04,276 gais), vv	vv-05 (2,20	59,563 gais), www-06	(2,932,775 gais) & IVIT-25 (6,267,9	Joo gais).
Date: Weather: Time of Collecti	3/14/24 31 ^o F, cloudy ion: <u>11</u>	_Crew:	R. Murphy, T. Urban		
Date: Weather: Time of Collecti Field Measurem 11:1 (tim	3/14/24 <u>31 ^oF, cloudy</u> ion: <u>11</u> nents: <u>5/RJM</u> e/initial)	_Crew:	R. Murphy, T. Urban	- <u>7.00</u> Buffer 4- <u>4.01</u> Buffer 10- <u>7.95</u> Oakton pH Tester30,	- <u>9.99</u> s/n TS311487089
Date: Weather: Time of Collecti Field Measurem 	3/14/24 <u>31 °F, cloudy</u> ion: <u>11</u> nents: <u>5/RJM</u> e/initial)	_Crew:	R. Murphy, T. Urban		- <u>9.99</u> s/n TS311487089
Date: Weather: Time of Collecti Field Measurem <u>11:1</u> (tim Identification: Physical Observ	3/14/24 <u>31 ^oF, cloudy</u> ion: <u>11</u> nents: <u>5/RJM</u> e/initial) <u>EFF-031424 f</u> vations: <u>Light or</u>	_Crew:	R. Murphy, T. Urban		9.99 s/n TS311487089
Date:	3/14/24 <u>31 ^oF, cloudy</u> ion: <u>11</u> nents: <u>5/RJM</u> e/initial) <u>EFF-031424 f</u> vations: <u>Light or</u> <u>Eurofins Buffalo</u>	_Crew:	R. Murphy, T. Urban	² - <u>7.00</u> Buffer 4- <u>4.01</u> Buffer 10- 7.95 Oakton pH Tester30, 8.2 ^o C	- <u>9.99</u> s/n TS311487089
Date:	3/14/24 <u>31 °F, cloudy</u> ion: <u>11</u> nents: <u>5/RJM</u> <u>6/initial</u>) <u>EFF-031424 f</u> vations: <u>Light or</u> <u>Eurofins Buffalo</u> <u>No wells running</u> <u>y volumes: WW</u>	_Crew:	R. Murphy, T. Urban	 <u>7.00</u> Buffer 4- <u>4.01</u> Buffer 10- <u>7.95</u> Oakton pH Tester30, <u>8.2 °C</u> ates. n. <u>2 gals</u>), WW-03 (-2,398 gals), (2.022,005 gals), 	- <u>9.99</u> s/n TS311487089

TABLE 1

PFOHL BROTHERS LANDFILL - EFFLUENT MONITORING ANALYTICAL RESULTS, TOTAL FLOW, AND MASS LOADINGS MARCH 2024

Sample ID	EFF-031424								
Matrix	Effluent Water								
Date Sampled	3/14/2024								
Parameter	Result		Mass Loading	Discharge Limitation	Violations				
	(mg/L)		(lbs/day)	(lbs/day)	(Yes/No)				
Total Barium	0.33		0.04	23.4	No				
Total Cadmuim	0.00053	J	0.0001	0.23	No				
Total Chromium	< ⁽¹⁾ 0.0010		< 0.0001	1.17	No				
Total Copper	0.0047	JB	0.0005	3.74	No				
Total Lead	0.0031	J	0.0003	1.17	No				
Total Nickel	0.0030	J	0.0003	3.27	No				
Total Zinc	0.0087	J	0.0009	5.84	No				
Total Suspended Solids	38.0		NA ⁽²⁾	250 ⁽³⁾	No				
рН ⁽⁴⁾	8.0		NA	5.0 - 12.0	No				
Total Flow ⁽⁵⁾	12,917			187,898	No				

Notes:

- (1) < = Compound not detected, method detection limit shown
- (2) NA = Not Applicable
- (3) Discharge Limitation in units of mg/L
- (4) pH measurement and Discharge Limitation in Standard Units
- (5) Total Flow reported in gallons, sample was collected over a 24 hour period
- 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.
- B Compund was found in the blank and sample.

Calculation:
$$\left(\frac{x \text{ mg}}{L}\right) \left(\frac{y \text{ gal}}{\text{day}}\right) \left(\frac{1 \text{ lb}}{453,600 \text{ mg}}\right) \left(\frac{3.785 \text{ L}}{\text{gal}}\right) = \frac{x \times y}{119,841} \frac{\text{lb}}{\text{day}}$$

mg = milligrams gal = gallons L = Liters lb(s) = pound(s)

SAMPLING FIELD SHEET



Address:	Aero Drive, Cheektowaga, NY		
Contact:	Patrick T. Bowen, P.E.	Phone:	716-897-7288
Installation:			
Sample Point:	SP-001		
Sample Locatic	n: Meter Chamber - ball valve or	n 6" HDPE	forcemain
Date:	6/20/24 Crew: R. Murphy, T	. Urban	
Weather:	78 °F, cloudy		
Sampling Devic	e: NA		
Time of Installa	tion: <u>11:15</u> Type of	Sample:	Composite
Sample Interva	: <u>NA</u> Sample	Volume:	NA
Date:	<u>6/21/24</u> Crew: <u>R. Murphy, T</u> 90 ^o F, hazy	. Urban	
Date: Weather: Time of Collect	<u>6/21/24</u> Crew: <u>R. Murphy, T</u> 90 ^o F, hazy on: <u>11:15</u>	. Urban	
Date: Weather: Time of Collect Field Measuren <u>11:1</u> (tim	6/21/24 Crew: <u>R. Murphy, T</u> 90 ^o F, hazy on: <u>11:15</u> nents: 5/RJM pH Calibration: e/initial) pH Measurement	Buffer 7	<u>6.99</u> Buffer 4- <u>4.01</u> Buffer 10- <u>10.02</u> 7.04 Oakton pH Tester30, s/n T311487089
Date: Weather: Time of Collect Field Measuren <u>11:1</u> (tim	<u>6/21/24</u> Crew: <u>R. Murphy, T</u> <u>90 ^oF, hazy</u> on: <u>11:15</u> nents: <u>5/RJM</u> pH Calibration: e/initial) pH Measurement Temperature:	<u>Urban</u> Buffer 7	<u>6.99</u> Buffer 4- <u>4.01</u> Buffer 10- <u>10.02</u> 7.04 Oakton pH Tester30, s/n T311487089 20.5 °C
Date: Weather: Time of Collect Field Measuren <u>11:1</u> (tim	6/21/24 Crew: <u>R. Murphy, T</u> 90 ^o F, hazy on: <u>11:15</u> hents: 5/RJM pH Calibration: e/initial) pH Measurement Temperature: EFF-062124 for TSS and Metals	Buffer 7	<u>6.99</u> Buffer 4- <u>4.01</u> Buffer 10- <u>10.02</u> 7.04 Oakton pH Tester30, s/n T311487089 20.5 °C
Date: Weather: Time of Collect Field Measuren <u>11:1</u> (tim Identification: Physical Obser	6/21/24 Crew: <u>R. Murphy, T</u> 90 ^o F, hazy on: <u>11:15</u> hents: 5/RJM pH Calibration: e/initial) pH Measurement Temperature: EFF-062124 for TSS and Metals vations: Light orange/red tint.	Buffer 7	<u>6.99</u> Buffer 4- <u>4.01</u> Buffer 10- <u>10.02</u> 7.04 Oakton pH Tester30, s/n T311487089 20.5 °C
Date: Weather: Time of Collect Field Measuren <u>11:1</u> (tim Identification: Physical Obser	6/21/24 Crew: <u>R. Murphy, T</u> 90 ^o F, hazy on: <u>11:15</u> nents: 5/RJM pH Calibration: e/initial) pH Measurement Temperature: EFF-062124 for TSS and Metals vations: Light orange/red tint.	<u>Buffer 7-</u>	<u>6.99</u> Buffer 4- <u>4.01</u> Buffer 10- <u>10.02</u> 7.04 Oakton pH Tester30, s/n T311487089 20.5 ^o C
Date: Weather: Time of Collect Field Measuren <u>11:1</u> (tim Identification: Physical Obser Laboratory: Comments: PLC displa	6/21/24 Crew: R. Murphy, T 90 °F, hazy on: <u>11:15</u> hents: 5/RJM pH Calibration: e/initial) pH Measurement Temperature: EFF-062124 for TSS and Metals vations: Light orange/red tint. Eurofins Buffalo, Amherst, NY No wells running at the time of sample of y volumes: WW-01 (104,551 gals), WW	Buffer 7	<u>6.99</u> Buffer 4- <u>4.01</u> Buffer 10- <u>10.02</u> 7.04 Oakton pH Tester30, s/n T311487089 20.5 °C 5 gals), WW-03 (-1,146 gals),
Date: Weather: Time of Collect Field Measuren <u>11:1</u> (tim Identification: Physical Obser Laboratory: <u>Comments:</u> <u>PLC displa</u> WW-04 (1,	6/21/24 Crew: R. Murphy, T 90 °F, hazy on: <u>11:15</u> hents: 5/RJM pH Calibration: e/initial) pH Measurement Temperature: EFF-062124 for TSS and Metals vations: Light orange/red tint. Eurofins Buffalo, Amherst, NY No wells running at the time of sample of y volumes: WW-01 (104,551 gals), WV 961,286 gals), WW-05 (2,395,415 gals)	Buffer 7	<u>6.99</u> Buffer 4- <u>4.01</u> Buffer 10- <u>10.02</u> 7.04 Oakton pH Tester30, s/n T311487089 20.5 °C 20.5 °C 6 gals), WW-03 (-1,146 gals), (4,025,675 gals) & MH-25 (9,183,851 gals).

TABLE 1

PFOHL BROTHERS LANDFILL - EFFLUENT MONITORING ANALYTICAL RESULTS, TOTAL FLOW, AND MASS LOADINGS JUNE 2024

Sample ID	EFF-062124								
Matrix	Effluent Water								
Date Sampled	6/21/2024								
Parameter	Result		Mass Loading	Discharge Limitation	Violations				
	(mg/L)		(lbs/day)	(lbs/day)	(Yes/No)				
Total Barium	0.31		0.01	23.4	No				
Total Cadmuim	< ⁽¹⁾ 0.00050		< 0.00001	0.23	No				
Total Chromium	< 0.0024		< 0.0001	1.17	No				
Total Copper	0.014		0.0004	3.74	No				
Total Lead	0.0044	J	0.0001	1.17	No				
Total Nickel	0.0046	J	0.0001	3.27	No				
Total Zinc	0.0070	J	0.0002	5.84	No				
Total Suspended Solids	7.2		NA ⁽²⁾	250 ⁽³⁾	No				
рН ⁽⁴⁾	7.0		NA	5.0 - 12.0	No				
Total Flow ⁽⁵⁾	3,436			187,898	No				

Notes:

- (1) < = Compound not detected, method detection limit shown
- (2) NA = Not Applicable
- (3) Discharge Limitation in units of mg/L
- (4) pH measurement and Discharge Limitation in Standard Units
- (5) Total Flow reported in gallons, sample was collected over a 24 hour period
- 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.

Calculation:
$$\left(\frac{x \text{ mg}}{L}\right) \left(\frac{y \text{ gal}}{\text{day}}\right) \left(\frac{1 \text{ lb}}{453,600 \text{ mg}}\right) \left(\frac{3.785 \text{ L}}{\text{gal}}\right) = \frac{x \times y}{119,841} \frac{\text{lb}}{\text{day}}$$

mg = milligrams gal = gallons L = Liters lb(s) = pound(s)

SAMPLING FIELD SHEET



Oliant Nama, Dfabl			
Client Name: FIOH	Brothers Landfill		
Address: Aero	Drive, Cheektowa	aga, NY	
Contact: Patrie	ck T. Bowen, P.E.	Phone:	716-897-7288
Installation:			
Sample Point: <u>SP-0</u>	01		
Sample Location:	Meter Chambe	er - ball valve on 6" HDP	E forcemain
Date: 9/2	23/24 Crew:	R. Murphy, T. Urban	
Weather: <u>68 °</u> F	, cloudy		
Sampling Device:	NA		
Time of Installation:	11:30	Type of Sample:	Composite
Sample Interval:	NA	Sample Volume:	NA
WW-04 (393,263	gals), WW-01 (0 g	3,518 gals), WW-06 (48	9,297 gals) & MH-25 (1,629,621 gals).
Date: <u>9/2</u> Weather: <u>72 °F</u> Time of Collection: Field Measurements:	24/24 Crew: ; cloudy 11:30	R. Murphy, T. Urban	
Date: 9/2 Weather: 72 °F Time of Collection: Field Measurements: 11:30/RJM (time/initial)	24/24 Crew: ; cloudy 11:30	R. Murphy, T. Urban	6.99 Buffer 4- 4.02 Buffer 10- 10.02
Date: 9/2 Weather: 72 °F Time of Collection: Field Measurements: 11:30/RJM (time/initial)	24/24 Crew: , cloudy 11:30	R. Murphy, T. Urban pH Calibration: Buffer 7- pH Measurement:	6.99 Buffer 4- <u>4.02</u> Buffer 10- <u>10.02</u> 7.64 Oakton pH Tester30, s/n T311487089
Date: 9/2 Weather: 72 °F Time of Collection: Field Measurements: <u>11:30/RJM</u> (time/initial)	24/24 Crew: , cloudy 11:30	R. Murphy, T. Urban pH Calibration: Buffer 7- pH Measurement: Temperature:	6.99 Buffer 4- <u>4.02</u> Buffer 10- <u>10.02</u> 7.64 Oakton pH Tester30, s/n T311487089 18.2 °C
Date: <u>9/2</u> Weather: <u>72 °F</u> Time of Collection: Field Measurements: <u>11:30/RJM</u> (time/initial)	24/24 Crew: , cloudy 11:30 092424 for TSS a	R. Murphy, T. Urban pH Calibration: Buffer 7- pH Measurement: Temperature:	<u>6.99</u> Buffer 4- <u>4.02</u> Buffer 10- <u>10.02</u> 7.64 Oakton pH Tester30, s/n T311487089 18.2 °C
Date: 9/2 Weather: 72 °F Time of Collection: Field Measurements: 11:30/RJM (time/initial)	24/24 Crew: ; cloudy 11:30 092424 for TSS a Light orange/red	R. Murphy, T. Urban pH Calibration: Buffer 7- pH Measurement: Temperature: and Metals tint, some particulates	<u>6.99</u> Buffer 4- <u>4.02</u> Buffer 10- <u>10.02</u> 7.64 Oakton pH Tester30, s/n T311487089 18.2 °C
Date: <u>9/2</u> Weather: <u>72 °F</u> Time of Collection: Field Measurements: <u>11:30/RJM</u> (time/initial) Identification: <u>EFF-</u> Physical Observations: Laboratory: <u>Eurofin</u>	24/24 Crew: 5, cloudy 11:30 092424 for TSS a Light orange/red s Buffalo, Amhers	R. Murphy, T. Urban PH Calibration: Buffer 7- pH Measurement: Temperature: and Metals tint, some particulates st, NY	<u>6.99</u> Buffer 4- <u>4.02</u> Buffer 10- <u>10.02</u> 7.64 Oakton pH Tester30, s/n T311487089 18.2 °C
Date: 9/2 Weather: 72 °F Time of Collection: Field Measurements: <u>11:30/RJM</u> (time/initial) Identification: EFF- Physical Observations: Laboratory: Eurofin Comments: Wells W PLC display volum	24/24 Crew: 5, cloudy 11:30 092424 for TSS a Light orange/red s Buffalo, Amhers WW-04 and WW- nes: WW-01 (0 g	R. Murphy, T. Urban PH Calibration: Buffer 7- pH Measurement: Temperature: and Metals tint, some particulates st, NY 05 running at the time of als), WW-02 (0 gals), W	6.99 Buffer 4- 4.02 Buffer 10- 10.02 7.64 Oakton pH Tester30, s/n T311487089 18.2 °C f sample collection. W-03 (3 gals),
Date: 9/2 Weather: 72 °F Time of Collection: Field Measurements: <u>11:30/RJM</u> (time/initial) Identification: EFF- Physical Observations: Laboratory: Eurofin Comments: Wells V PLC display volum WW-04 (416,634 of	24/24 Crew: , cloudy 11:30 092424 for TSS a Light orange/red s Buffalo, Amhers VW-04 and WW- nes: WW-01 (0 g- gals), WW-05 (45)	R. Murphy, T. Urban pH Calibration: Buffer 7- pH Measurement: Temperature: and Metals tint, some particulates st, NY 05 running at the time of als), WW-02 (0 gals), W 4,668 gals), WW-06 (48 etable the metable)	6.99 Buffer 4- 4.02 Buffer 10- 10.02 7.64 Oakton pH Tester30, s/n T311487089 18.2 °C

TABLE 1

PFOHL BROTHERS LANDFILL - EFFLUENT MONITORING ANALYTICAL RESULTS, TOTAL FLOW, AND MASS LOADINGS SEPTEMBER 2024

Sample ID	EFF-092424								
Matrix	Effluent Water								
Date Sampled				9/24	4/2024				
Parameter	Result		Ма	ss Loading	Discharge Limitation	Violations			
	(mg/L)			(lbs/day)	(lbs/day)	(Yes/No)			
Total Barium	0.57			0.12	23.4	No			
Total Cadmuim	< ⁽¹⁾ 0.00050		۷	0.0001	0.23	No			
Total Chromium	< 0.0024		۷	0.0005	1.17	No			
Total Copper	< 0.0045		۷	0.0009	3.74	No			
Total Lead	< 0.0039		۷	8000.0	1.17	No			
Total Nickel	0.0038	٦		8000.0	3.27	No			
Total Zinc	< 0.0068		۷	0.001	5.84	No			
Total Suspended Solids	136.0			NA ⁽²⁾	250 ⁽³⁾	No			
рН ⁽⁴⁾	7.6			NA	5.0 - 12.0	No			
Total Flow ⁽⁵⁾	24,685				187,898	No			

Notes:

- (1) < = Compound not detected, method detection limit shown
- (2) NA = Not Applicable
- (3) Discharge Limitation in units of mg/L
- (4) pH measurement and Discharge Limitation in Standard Units
- (5) Total Flow reported in gallons, sample was collected over a 24 hour period
- 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.

Calculation:
$$\left(\frac{x \text{ mg}}{L}\right) \left(\frac{y \text{ gal}}{\text{day}}\right) \left(\frac{1 \text{ lb}}{453,600 \text{ mg}}\right) \left(\frac{3.785 \text{ L}}{\text{gal}}\right) = \frac{x \times y}{119,841} \frac{\text{lb}}{\text{day}}$$

mg = milligrams gal = gallons L = Liters lb(s) = pound(s)

SAMPLING FIELD SHEET



Client Name:	Pfohl Brothers Landfill
Address:	Aero Drive, Cheektowaga, NY
Contact:	Patrick T. Bowen, P.E. Phone: 716-897-7288
Installation:	
Sample Point:	SP-001
Sample Location	Meter Chamber - ball valve on 6" HDPE forcemain
Date:	12/03/24 Crew: R. Murphy, T. Urban
Weather:	38 °F, sunny
Sampling Device	
Time of Installation	on: 13:00 Type of Sample: Composite
Sample Interval:	NA Sample Volume: NA
PLC display WW-04 (1,1 Date: Weather: Time of Collectio Field Measureme	volumes: WW-01 (0 gals), WW-02 (0 gals), WW-03 (3 gals), 69,742 gals), WW-05 (470,209 gals), WW-06 (922,594 gals) & MH-25 (3,138,741 gals). 12/04/24 Crew: R. Murphy, T. Urban 33 °F, cloudy
13:00	//RJM pH Calibration: Buffer 7- 7.01 Buffer 4- 3.98 Buffer 10- 10.00
(pH Measurement: 7.93 Oakton pH Tester30, s/n T311487089
	Temperature: 8.7 °C
Identification:	EFF-120424 for TSS and Metals
Physical Observa	ations: Light orange tint, fine orange particulates
Laboratory: <u>E</u>	urofins Buffalo, Amherst, NY
Comments: <u>V</u> PLC display	/ell WW-04 running at the time of sample collection. volumes: WW-01 (0 gals), WW-02 (0 gals), WW-03 (3 gals),
	82 789 gals) W/W_{-05} (470 209 gals) W/W_{-06} (922 504 gals) 8 MH 25 (2 151 691 gals)
WW-04 (1,1	82,789 gals), WW-05 (470,209 gals), WW-06 (922,594 gals) & MH-25 (3,151,681 gals).

TABLE 1

PFOHL BROTHERS LANDFILL - EFFLUENT MONITORING ANALYTICAL RESULTS, TOTAL FLOW, AND MASS LOADINGS DECEMBER 2024

Sample ID	EFF-120424									
Matrix		Effluent Water								
Date Sampled				12/4	1/2024					
Parameter	Result		Ma	ass Loading	Discharge Limitation	Violations				
	(mg/L)			(lbs/day)	(lbs/day)	(Yes/No)				
Total Barium	0.45			0.05	23.4	No				
Total Cadmuim	< ⁽¹⁾ 0.00050		<	0.00005	0.23	No				
Total Chromium	< 0.0024		۷	0.0003	1.17	No				
Total Copper	< 0.0045		۷	0.0005	3.74	No				
Total Lead	< 0.0039		۷	0.0004	1.17	No				
Total Nickel	0.0045	J		0.0005	3.27	No				
Total Zinc	< 0.0068		۷	0.0007	5.84	No				
Total Suspended Solids	20.4			NA ⁽²⁾	250 ⁽³⁾	No				
рН ⁽⁴⁾	7.9			NA	5.0 - 12.0	No				
Total Flow ⁽⁵⁾	12,940				187,898	No				

Notes:

- (1) < = Compound not detected, method detection limit shown
- (2) NA = Not Applicable
- (3) Discharge Limitation in units of mg/L
- (4) pH measurement and Discharge Limitation in Standard Units
- (5) Total Flow reported in gallons, sample was collected over a 24 hour period
- 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.

Calculation:
$$\left(\frac{x \text{ mg}}{L}\right) \left(\frac{y \text{ gal}}{\text{day}}\right) \left(\frac{1 \text{ lb}}{453,600 \text{ mg}}\right) \left(\frac{3.785 \text{ L}}{\text{gal}}\right) = \frac{x \times y}{119,841} \frac{\text{lb}}{\text{day}}$$

mg = milligrams gal = gallons L = Liters lb(s) = pound(s)

Appendix H Monitoring Well Inspection Logs

				WELL INSPE	CTION SUI	MMARY		
Proj	ect Name:			Pfohl Brothers La	<u>ndfill</u>	Project Number:	60411174	_
nsp	ection Crew Members	3:		<u>R. Murphy, C.Hor</u>	rocks, C. Finn	Supervisor:	<u>R. Murphy</u>	
)ate	e(s) of Inspection:			<u>November 20, 20</u>	24			
	Well I.D. Number	Lock	Surface Seal	Protective Casing	Riser	Water Level (ft. BTOC)	Well Depth (ft. BTOC)	Other Comments
	GW-01S	ОК	ОК	ОК	Bulged	5.29	14.94	
	GW-01D	ОК	ОК	ОК	Bulged	3.77	39.65	
	GW-03S	ОК	ОК	ОК	ОК	Dry @ 13.56	13.56	
	GW-03D	ОК	ОК	ОК	ОК	2.18	35.70	
	GW-04S	ОК	ОК	ОК	ОК	6.19	16.23	
	GW-04D	ОК	ОК	ОК	ОК	12.51	45.57	
	GW-07S	ОК	ОК	ОК	ОК	7.37	35.33	
	GW-07D	ОК	ОК	ОК	Damaged	33.06	60.83	

٦roj	ect Name:			<u>Pfohl Brothers Lar</u>	<u>ndfill</u>	Project Number:	60411174	-
nsp	ection Crew Members	3:		<u>R. Murphy, C.Horr</u>	<u>rocks, C. Finn</u>	Supervisor:	<u>R. Murphy</u>	
Dat	e(s) of Inspection:			<u>November 20, 202</u>	<u>24</u>			
	Well I.D. Number	Lock	Surface Seal	Protective Casing	Riser	Water Level (ft. BTOC)	Well Depth (ft. BTOC)	Other Comments
	GW-08SR	ОК	ОК	ОК	ОК	5.28	13.02	
	GW-08D	ОК	ок	ОК	ОК	6.20	36.54	
	GW-26D	ОК	ОК	ОК	ОК	7.02	40.70	
	GW-28S	ОК	ОК	ОК	ОК	11.03	15.52	
	GW-29S	ОК	ок	ОК	ОК	10.36	20.04	
	GW-30S	ОК	ОК	ОК	ОК	8.34	17.97	
	GW-31S	ОК	ОК	ОК	ОК	7.98	9.57	
	GW-32S	ОК	ОК	ОК	ОК	6.85	9.93	

	WELL INSPECTION SUMMARY										
Pro	ject Name:			Pfohl Brothers Lan	<u>ndfill</u>	Project Number:	60411174	-			
Insp	Inspection Crew Members:		<u>R. Murphy, C.Horr</u>	ocks, C. Finn	Supervisor:	<u>R. Murphy</u>					
Dat	e(s) of Inspection:			<u>November 20, 202</u>	24						
	Well I.D. Number	Lock	Surface Seal	Protective Casing	Riser	Water Level (ft. BTOC)	Well Depth (ft. BTOC)	Other Comments			
	GW-33S	ОК	ОК	ОК	ОК	5.36	8.21				
	GW-34S	ОК	ОК	ОК	OK	5.66	10.01				
	GW-35S	ОК	ОК	ОК	OK	6.37	7.46				
	Additional Comments:										

ATTACHMENT B Fall 20

Fall 2024 Data Applicability Report

DATA APPLICABILITY REPORT

ANNUAL GROUNDWATER MONITORING

PFOHL BROTHERS LANDFILL SITE

Analyses Performed by:

EUROFINS-BUFFALO 10 HAZELWOOD DRIVE AMHERST, NY 14228

Prepared for:

TOWN OF CHEEKTOWAGA CHEEKTOWAGA, NY 14225

Prepared by:

AECOM 50 LAKEFRONT BOULEVARD SUITE 111 BUFFALO, NEW YORK 14202

DECEMBER 2024

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TABLES

(Following Text)

Table 1	Validated Groundwater Sample Results
Table 2	Validated Field QC Sample Results

APPENDICES

- Appendix A Validated Sample Reporting Forms
- Appendix B Support Documentation

I. INTRODUCTION

This Data Applicability Report (DAR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B-Guidance for Data Deliverables and the Development of Data Usability Summary Reports,* May 2010. This DAR discusses the usability of the analytical data for groundwater samples collected during the Fall 2024 annual monitoring program at the Pfohl Brothers Landfill Site, located in Cheektowaga, NY.

II. ANALYTICAL METHODOLOGIES and DATA APPLICABILITY PROCEDURES

The data being evaluated are from the November 20-22, 2024 sampling of eighteen (18) groundwater samples, one (1) field duplicate, one (1) matrix spike (MS)/matrix spike duplicate (MSD) pair, and two (2) trip blanks. The analytical laboratory that performed the analyses was Eurofins-Buffalo located in Amherst, NY. The samples were analyzed for the following project specific parameters: Volatile Organic Compounds (VOCs) following United States Environmental Protection Agency (USEPA) Method 8260C, Semivolatile Organic Compounds (SVOCs) by USEPA Method 8270D, and total/dissolved metals by USEPA Methods 6010D/7470A. Not all samples were analyzed for all parameters.

A limited data review was performed in accordance with the following USEPA guidelines:

- Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SW-846 Method 8260B & 8260C, SOP HW-24, Rev. 4, October 2014;
- Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SW-846 Method 8270D, SOP HW-22, Rev. 5, December 2010;
- SOP for the Validation of ICP-AES Data, SOP QA-HWSS-A-010, Rev. 0, March 2022; and
- SOP for the Validation of Mercury Data, SOP QA-HWSS-A-011, Rev. 0, March 2022.

The data applicability evaluation included a review of completeness of all required deliverables; holding times; quality control (QC) results (blanks, matrix spike recoveries, duplicate analyses, and laboratory control sample recoveries) to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; and a review of laboratory data qualifiers.

Definitions of USEPA data qualifiers are presented at the end of this text. The analytical results are presented on Table 1 (groundwater) and Table 2 (field QC). Copies of the laboratory results (i.e., sample reporting forms) are presented in Appendix A. Documentation supporting the qualification of data is presented in Appendix B. Only analytical deviations affecting data usability are discussed in this report.

III. DATA DELIVERABLE COMPLETENESS

In accordance with the project requirements, limited deliverable data packages (level 2) were provided by the laboratory, which only consisted of analytical summaries, QC reporting forms and case narratives.

IV. SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved and under proper chain-of-custody (COC) with the following exception:

One of the coolers was received at a temperature greater than $4^{\circ}C \pm 2^{\circ}C$. Those samples had just been collected that day and were shipped on ice. No qualification is required since the samples were on ice and the cooling process was underway.

All samples were analyzed within the required holding times (HT).

Due to the low recharge rates of monitoring wells GW-07D and GW-07S, the VOC aliquots were collected on 11/20/24, while the SVOC/metals aliquots were collected on 11/21/24. For the same reason, sample GW-04S had the VOC aliquots collected at 1450 and the SVOC/metals aliquots collected at 1630 on 11/20/24.

V. NON-CONFORMANCES

Laboratory Method Blanks

Dissolved arsenic (As) was detected in the laboratory method blank at a concentration less than the reporting limit (RL). The results for dissolved As in sample GW-07D has been qualified 'U' at the RL.

Total chromium (Cr) was detected in the laboratory method blank at a concentration less than the RL. The results for total Cr in associated samples GW-28S, GW-29S, GW-31S, GW-32S, and GW-35S have been qualified 'U' at the RL. Those samples greater than the RL had the B qualifier applied by the laboratory removed.

Total zinc (Zn) was detected in the laboratory method blank at a concentration less than the RL. The results for total Zn in associated samples GW-28S, GW-29S, GW-31S, GW-32S, GW-33S, and GW-35S have been qualified 'U' at the RL. Those samples greater than the RL had the B qualifier applied by the laboratory removed.

Total barium, iron, and manganese were also detected in the method blank at a concentration less than the reporting limit (RL). The B qualifier applied by the laboratory for those metals in those samples greater than the RL was removed.

VI. SAMPLE RESULTS AND REPORTING

All RLs were reported in accordance with method requirements and were adjusted for sample size and dilution factors. Results for compounds/analytes detected below the RL are qualified 'J' by the laboratory.

Samples GW-08SR and GW-30S were analyzed for VOCs utilizing a dilution of two due to foaming during the purge cycle. The RLs reported for the non-detect compounds represent the lowest achievable at the dilution.

Sample GW-07D was analyzed for SVOCs utilizing a dilution of twenty due to the sample matrix. The RLs reported for the non-detect compounds represent the lowest achievable at the dilution.

A field duplicate was collected at groundwater location GW-03D. The field duplicate results exhibited good field and analytical precision.

VII. SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. All results qualified 'U' should be considered non-detect. All other sample results are usable as reported. AECOM does not recommend the recollection of any samples.

Prepared By:	Ann Marie Kropovitch, Chemist 🍌	Date:	12/05/24	
Reviewed by:	Peter R. Fairbanks, Senior Chemist	₽F	Date:	12/09/24

DEFINITIONS OF USEPA DATA QUALIFIERS

- U The analyte was analyzed for, but was not detected above the level of the sample reporting limit.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+- The metal result is an estimated quantity, but the result may be biased high.
- J- The metal result is an estimated quantity, but the result may be biased low.
- UJ The analyte was analyzed for, but not detected. The reporting limit is approximate and may be inaccurate or imprecise.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.

Location ID		GW-01D	GW-01S	GW-026D	GW-03D	GW-03D
Sample ID		GW-01D-241120	GW-01S-241120	GW-26D-241121	FD-11212024	GW-03D-241121
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/20/24	11/20/24	11/21/24	11/21/24	11/21/24
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Acetone	UG/L	10 U	10 U	10 U	10 U	10 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,3-Dichlorobenzene	UG/L	10 U	10 U	10 U	2.0 J	2.0 J
1,4-Dichlorobenzene	UG/L	10 U	10 U	10 U	2.9 J	2.9 J
bis(2-Ethylhexyl)phthalate	UG/L	2.7 J	5.0 U	5.0 U	5.0 U	5.0 U
Phenol	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Metals						
Antimony	MG/L	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Arsenic	MG/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Barium	MG/L	0.10	0.19	0.10	0.076	0.075
Cadmium	MG/L	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Chromium	MG/L	0.18	0.0015 J	0.0040 U	0.0013 J	0.0026 J
Copper	MG/L	0.0052 J	0.010 U	0.010 U	0.010 U	0.010 U
lron	MG/L	0.96	8.5	1.7	0.96	1.0
Lead	MG/L	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Magnesium	MG/L	40.2	26.6	15.7	13.0	12.8
Manganese	MG/L	0.022	0.99	0.26	0.15	0.14
Mercury	MG/L	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel	MG/L	0.020	0.0014 J	0.0019 J	0.0040 J	0.0043 J

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/5/24 CHECKED BY: <u>PRF 12/9/2</u>4

Location ID		GW-01D	GW-01S	GW-026D	GW-03D	GW-03D
Sample ID		GW-01D-241120	GW-01S-241120	GW-26D-241121	FD-11212024	GW-03D-241121
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/20/24	11/20/24	11/21/24	11/21/24	11/21/24
Parameter	Units				Field Duplicate (1-1)	
Metals						
Silver	MG/L	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0030 U
Sodium	MG/L	135	161	244	198	194
Zinc	MG/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

Flags assigned during chemistry validation are shown.

Location ID		GW-04D	GW-04S	GW-04S	GW-07D	GW-07D
Sample ID		GW-04D-241120	GW-04S-241120	GW-04S-241120-PDB	GW-07D-241120	GW-07D-241121
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/20/24	11/20/24	11/20/24	11/20/24	11/21/24
Parameter	Units					
Volatile Organic Compounds						
1,1,2-Trichloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,2-Dichloroethene (total)	UG/L	2.0 U	NA	2.0 U	2.0 U	NA
Acetone	UG/L	10 U	NA	10 U	10 U	NA
Benzene	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Vinyl chloride	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Semivolatile Organic Compounds						
1,3-Dichlorobenzene	UG/L	10 U	10 U	NA	NA	200 U
1,4-Dichlorobenzene	UG/L	10 U	10 U	NA	NA	200 U
bis(2-Ethylhexyl)phthalate	UG/L	5.0 U	5.0 U	NA	NA	84 J
Phenol	UG/L	5.0 U	5.0 U	NA	NA	100 U
Metals						
Antimony	MG/L	0.020 U	0.020 U	NA	NA	0.020 U
Arsenic	MG/L	0.010 U	0.010 U	NA	NA	0.010 U
Barium	MG/L	0.11	0.16	NA	NA	0.098
Cadmium	MG/L	0.0010 U	0.0010 U	NA	NA	0.0010 U
Chromium	MG/L	0.0035 J	0.0045	NA	NA	0.055
Copper	MG/L	0.010 U	0.0030 J	NA	NA	0.010
Iron	MG/L	0.10	2.2	NA	NA	5.8
Lead	MG/L	0.0050 U	0.0050 U	NA	NA	0.073
Magnesium	MG/L	84.8	29.8	NA	NA	37.9
Manganese	MG/L	0.025	0.16	NA	NA	0.063
Mercury	MG/L	0.00020 U	0.00020 U	NA	NA	0.00020 U
Nickel	MG/L	0.0029 J	0.0067 J	NA	NA	0.036

Flags assigned during chemistry validation are shown.

Location ID		GW-04D	GW-04S	GW-04S	GW-07D	GW-07D
Sample ID		GW-04D-241120	GW-04S-241120	GW-04S-241120-PDB	GW-07D-241120	GW-07D-241121
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/20/24	11/20/24	11/20/24	11/20/24	11/21/24
Parameter	Units					
Metals						
Silver	MG/L	0.0030 U	0.0030 U	NA	NA	0.0030 U
Sodium	MG/L	117	30.7	NA	NA	89.5
Zinc	MG/L	0.010 U	0.0099 J	NA	NA	0.042

Flags assigned during chemistry validation are shown.

Location ID		GW-07S	GW-07S	GW-08D	GW-08SR	GW-28S
Sample ID		GW-07S-241120	GW-07S-241121	GW-08D-241121	GW-08SR-241121	GW-28S-241121
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/20/24	11/21/24	11/21/24	11/21/24	11/21/24
Parameter	Units					
Volatile Organic Compounds						
1,1,2-Trichloroethane	UG/L	1.0 U	NA	1.0 U	2.0 U	1.0 U
1,2-Dichloroethene (total)	UG/L	2.0 U	NA	2.0 U	4.0 U	2.0 U
Acetone	UG/L	10 U	NA	10 U	20 U	10 U
Benzene	UG/L	1.0 U	NA	1.0 U	2.0 U	1.0 U
Vinyl chloride	UG/L	1.0 U	NA	1.0 U	2.0 U	1.0 U
Semivolatile Organic Compounds						
1,3-Dichlorobenzene	UG/L	NA	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	UG/L	NA	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	NA	5.0 U	5.0 U	5.0 U	5.0 U
Phenol	UG/L	NA	5.0 U	5.0 U	5.0 U	5.0 U
Metals						
Antimony	MG/L	NA	0.020 U	0.020 U	0.020 U	0.020 U
Arsenic	MG/L	NA	0.010 U	0.010 U	0.012	0.010 U
Barium	MG/L	NA	0.35	0.052	0.24	0.078
Cadmium	MG/L	NA	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Chromium	MG/L	NA	0.092	0.028	0.0026 J	0.0040 U
Copper	MG/L	NA	0.0044 J	0.0026 J	0.0032 J	0.010
Iron	MG/L	NA	0.75	0.80	21.8	2.9
Lead	MG/L	NA	0.0050 U	0.0050 U	0.0032 J	0.0050 U
Magnesium	MG/L	NA	45.9	10	46.4	28.2
Manganese	MG/L	NA	0.083	0.034	1.2	0.37
Mercury	MG/L	NA	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel	MG/L	NA	0.15	0.014	0.0021 J	0.0024 J

Flags assigned during chemistry validation are shown.

Location ID		GW-07S	GW-07S	GW-08D	GW-08SR	GW-28S
Sample ID		GW-07S-241120	GW-07S-241121	GW-08D-241121	GW-08SR-241121	GW-28S-241121
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/20/24	11/21/24	11/21/24	11/21/24	11/21/24
Parameter	Units					
Metals						
Silver	MG/L	NA	0.0030 U	0.0030 U	0.0030 U	0.0030 U
Sodium	MG/L	NA	58.3	172	326	8.3
Zinc	MG/L	NA	0.0068 J	0.010 U	0.010 U	0.010 U

Flags assigned during chemistry validation are shown.

Location ID		GW-29S	GW-30S	GW-31S	GW-32S	GW-33S
Sample ID		GW-29S-241122	GW-30S-241122	GW-31S-241122	GW-32S-241122	GW-33S-241122
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/22/24	11/22/24	11/22/24	11/22/24	11/22/24
Parameter	Units					
Volatile Organic Compounds						
1,1,2-Trichloroethane	UG/L	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	UG/L	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U
Acetone	UG/L	10 U	20 U	10 U	10 U	10 U
Benzene	UG/L	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	UG/L	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,3-Dichlorobenzene	UG/L	10 U	11 U	10 U	10 U	10 U
1,4-Dichlorobenzene	UG/L	10 U	11 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	5.0 U	5.4 U	5.0 U	5.2 U	5.0 U
Phenol	UG/L	5.0 U	5.4 U	5.0 U	5.2 U	5.0 U
Metals						
Antimony	MG/L	0.020 U				
Arsenic	MG/L	0.0096 J	0.010 U	0.010 U	0.010 U	0.010 U
Barium	MG/L	0.21	0.29	0.17	0.055	0.077
Cadmium	MG/L	0.0010 U				
Chromium	MG/L	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0052
Copper	MG/L	0.010 U	0.0017 J	0.0018 J	0.010 U	0.010 U
lron	MG/L	9.1	14.4	4.2	0.051	0.064
Lead	MG/L	0.0050 U	0.0031 J	0.0050 U	0.0050 U	0.0050 U
Magnesium	MG/L	59.8	34.9	31.4	26.1	31.2
Manganese	MG/L	0.54	2.2	0.30	0.10	0.0053
Mercury	MG/L	0.00020 U				
Nickel	MG/L	0.010 U	0.010 U	0.0074 J	0.0024 J	0.0016 J

Flags assigned during chemistry validation are shown.

Location ID		GW-29S	GW-30S	GW-31S	GW-32S	GW-33S
Sample ID		GW-29S-241122	GW-30S-241122	GW-31S-241122	GW-32S-241122	GW-33S-241122
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/22/24	11/22/24	11/22/24	11/22/24	11/22/24
Parameter	Units					
Metals						
Silver	MG/L	0.0030 U				
Sodium	MG/L	11.2	532	3.8	4.5	3.5
Zinc	MG/L	0.010 U				

Flags assigned during chemistry validation are shown.

Location ID	GW-34S	GW-35S	
Sample ID		GW-34S-241121	GW-35S-241121
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		11/21/24	11/21/24
Parameter	Units		
Volatile Organic Compounds			
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U
1,2-Dichloroethene (total)	UG/L	2.0 U	2.0 U
Acetone	UG/L	10 U	10 U
Benzene	UG/L	1.0 U	1.0 U
Vinyl chloride	UG/L	1.0 U	1.0 U
Semivolatile Organic Compounds			
1,3-Dichlorobenzene	UG/L	10 U	10 U
1,4-Dichlorobenzene	UG/L	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	5.0 U	5.2 U
Phenol	UG/L	5.0 U	5.2 U
Metals			
Antimony	MG/L	0.020 U	0.020 U
Arsenic	MG/L	0.010 U	0.010 U
Barium	MG/L	0.072	0.084
Cadmium	MG/L	0.0028	0.0010 U
Chromium	MG/L	0.0028 J	0.0040 U
Copper	MG/L	0.0017 J	0.010 U
Iron	MG/L	0.52	0.063
Lead	MG/L	0.0050 U	0.0050 U
Magnesium	MG/L	66.4	28.5
Manganese	MG/L	0.18	0.37
Mercury	MG/L	0.00020 U	0.00020 U
Nickel	MG/L	0.0095 J	0.0041 J

Flags assigned during chemistry validation are shown.

Location ID		GW-34S	GW-35S	
Sample ID	Sample ID			
Matrix		Groundwater	Groundwater	
Depth Interval (ft)	-	-		
Date Sampled		11/21/24	11/21/24	
Parameter	Units			
Metals				
Silver	MG/L	0.0030 U	0.0030 U	
Sodium	MG/L	53.1	4.1	
Zinc	MG/L	0.010 U	0.010 U	

Flags assigned during chemistry validation are shown.

Location ID		GW-07D
Sample ID		GW-07D-241121
Matrix	Groundwater	
Depth Interval (ft)	-	
Date Sampled		11/21/24
Parameter	Units	
Filtered Metals		
Antimony	MG/L	0.020 U
Arsenic	MG/L	0.010 U
Barium	MG/L	0.075
Cadmium	MG/L	0.0010 U
Chromium	MG/L	0.0016 J
Copper	MG/L	0.010 U
Iron	MG/L	0.021 J
Lead	MG/L	0.0032 J
Magnesium	MG/L	32.6
Manganese	MG/L	0.020
Mercury	MG/L	0.00020 U
Nickel	MG/L	0.012
Silver	MG/L	0.0030 U
Sodium	MG/L	79.6
Zinc	MG/L	0.017

Flags assigned during chemistry validation are shown.

TABLE 2 VALIDATED FIELD QC SAMPLE RESULTS PFOHL BROTHERS LANDFILL SITE

Location ID		FIELDQC	FIELDQC
Sample ID Matrix Depth Interval (ft)		Trip Blank	TRIP BLANK
		Quality Control	Quality Control
		-	-
Depth Interval (tt) Date Sampled Varameter Units		11/21/24	11/22/24
Parameter Units		Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U
1,2-Dichloroethene (total)	UG/L	2.0 U	2.0 U
Acetone	UG/L	10 U	10 U
Benzene	UG/L	1.0 U	1.0 U
Vinyl chloride	UG/L	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

APPENDIX A

VALIDATED SAMPLE REPORTING FORMS

Client Sample ID: GW-01S-241120 Date Collected: 11/20/24 14:30 Date Received: 11/21/24 14:45

Lab Sample ID: 480-225675-4

Matrix: Water

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Method: SW846 8260C - Vo	latile Organic	Compoun	ds by GC/MS	i					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/22/24 20:44	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/22/24 20:44	1
Acetone	ND		10	3.0	ug/L			11/22/24 20:44	1
Benzene	ND		1.0	0.41	ug/L			11/22/24 20:44	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/22/24 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			77 - 120					11/22/24 20:44	1
Toluene-d8 (Surr)	112		80 - 120					11/22/24 20:44	1
4-Bromofluorobenzene (Surr)	100		73 - 120					11/22/24 20:44	1
Dibromofluoromethane (Surr)	106		75 - 123					11/22/24 20:44	1
Method: SW846 8270D - Se	emivolatile Org	anic Com	oounds (GC/	MS)					

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DIIFac
1,3-Dichlorobenzene	ND		10	0.48	ug/L		11/22/24 13:39	11/25/24 17:41	1
1,4-Dichlorobenzene	ND		10	0.46	ug/L		11/22/24 13:39	11/25/24 17:41	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/22/24 13:39	11/25/24 17:41	1
Phenol	ND		5.0	0.39	ug/L		11/22/24 13:39	11/25/24 17:41	1
Surrogate	%Recovery	Qualifier	l imits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qu	ialifier Limits	Prepared	Analyzed	Dii Fac
2,4,6-Tribromophenol	104	25 - 144	11/22/24 13:39	11/25/24 17:41	1
2-Fluorobiphenyl	83	53 - 126	11/22/24 13:39	11/25/24 17:41	1
2-Fluorophenol	58	24 - 120	11/22/24 13:39	11/25/24 17:41	1
Nitrobenzene-d5	71	29 - 129	11/22/24 13:39	11/25/24 17:41	1
Phenol-d5	41	10 - 120	11/22/24 13:39	11/25/24 17:41	1
p-Terphenyl-d14	81	33 - 132	11/22/24 13:39	11/25/24 17:41	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.020	0.0068	mg/L		11/25/24 10:33	11/26/24 14:07	1
Arsenic	ND		0.010	0.0056	mg/L		11/25/24 10:33	11/26/24 14:07	1
Barium	0.19		0.0020	0.00070	mg/L		11/25/24 10:33	11/26/24 14:07	1
Cadmium	ND		0.0010	0.00050	mg/L		11/25/24 10:33	11/26/24 14:07	1
Chromium	0.0015	J	0.0040	0.0010	mg/L		11/25/24 10:33	11/26/24 14:07	1
Copper	ND		0.010	0.0016	mg/L		11/25/24 10:33	11/26/24 14:07	1
Iron	8.5		0.050	0.019	mg/L		11/25/24 10:33	11/26/24 14:07	1
Lead	ND		0.0050	0.0030	mg/L		11/25/24 10:33	11/26/24 14:07	1
Magnesium	26.6		0.20	0.043	mg/L		11/25/24 10:33	11/26/24 14:07	1
Manganese	0.99		0.0030	0.00040	mg/L		11/25/24 10:33	11/26/24 14:07	1
Nickel	0.0014	J	0.010	0.0013	mg/L		11/25/24 10:33	11/26/24 14:07	1
Silver	ND		0.0030	0.0017	mg/L		11/25/24 10:33	11/26/24 14:07	1
Sodium	161		1.0	0.32	mg/L		11/25/24 10:33	11/26/24 14:07	1
Zinc	ND		0.010	0.0015	mg/L		11/25/24 10:33	11/26/24 14:07	1
	A - Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		11/25/24 10:10	11/25/24 15:43	1

Eurofins Buffalo

Client Sample ID: GW-04S-241120 Date Collected: 11/20/24 16:30 Date Received: 11/21/24 14:45

Job ID: 480-225675-1 SDG: 480-225675-1

Lab Sample ID: 480-225675-5

Matrix: Water

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,3-Dichlorobenzene	ND		10	0.48	ug/L		11/22/24 13:39	11/25/24 18:07	1	
1,4-Dichlorobenzene	ND		10	0.46	ug/L		11/22/24 13:39	11/25/24 18:07	1	
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/22/24 13:39	11/25/24 18:07	1	1
Phenol	ND		5.0	0.39	ug/L		11/22/24 13:39	11/25/24 18:07	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	Ì
2,4,6-Tribromophenol	93		25 - 144				11/22/24 13:39	11/25/24 18:07	1	
2-Fluorobiphenyl	79		53 - 126				11/22/24 13:39	11/25/24 18:07	1	
2-Fluorophenol	56		24 - 120				11/22/24 13:39	11/25/24 18:07	1	
Nitrobenzene-d5	67		29 - 129				11/22/24 13:39	11/25/24 18:07	1	
Phenol-d5	39		10 - 120				11/22/24 13:39	11/25/24 18:07	1	
p-Terphenyl-d14	87		33 - 132				11/22/24 13:39	11/25/24 18:07	1	
Method: SW846 6010D - Me	etals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Antimony	ND		0.020	0.0068	mg/L		11/25/24 10:33	11/26/24 14:09	1	
Arsenic	ND		0.010	0.0056	mg/L		11/25/24 10:33	11/26/24 14:09	1	
Barium	0.16		0.0020	0.00070	mg/L		11/25/24 10:33	11/26/24 14:09	1	
Cadmium	ND		0.0010	0.00050	mg/L		11/25/24 10:33	11/26/24 14:09	1	
Chromium	0.0045		0.0040	0.0010	mg/L		11/25/24 10:33	11/26/24 14:09	1	
Copper	0.0030	J	0.010	0.0016	mg/L		11/25/24 10:33	11/26/24 14:09	1	
Iron	2.2		0.050	0.019	mg/L		11/25/24 10:33	11/26/24 14:09	1	
Lead	ND		0.0050	0.0030	mg/L		11/25/24 10:33	11/26/24 14:09	1	
Magnesium	29.8		0.20	0.043	mg/L		11/25/24 10:33	11/26/24 14:09	1	
Manganese	0.16		0.0030	0.00040	mg/L		11/25/24 10:33	11/26/24 14:09	1	
Nickel	0.0067	J	0.010	0.0013	mg/L		11/25/24 10:33	11/26/24 14:09	1	
Silver	ND		0.0030	0.0017	mg/L		11/25/24 10:33	11/26/24 14:09	1	
Sodium	30.7		1.0	0.32	mg/L		11/25/24 10:33	11/26/24 14:09	1	
Zinc	0.0099	J	0.010	0.0015	mg/L		11/25/24 10:33	11/26/24 14:09	1	
Method: SW846 7470A - Me	ercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Maroup			0.00000	0.000042			11/05/04 10:10	11/05/04 15:44	1	
Client Sample ID: GW-04D-241120 Date Collected: 11/20/24 16:15 Date Received: 11/21/24 14:45

Lab Sample ID: 480-225675-6

Matrix: Water

5 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 02:28	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 02:28	1
Acetone	ND		10	3.0	ug/L			11/23/24 02:28	1
Benzene	ND		1.0	0.41	ug/L			11/23/24 02:28	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/23/24 02:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			77 - 120					11/23/24 02:28	1
Toluene-d8 (Surr)	113		80 - 120					11/23/24 02:28	1
4-Bromofluorobenzene (Surr)	99		73 - 120					11/23/24 02:28	1
Dibromofluoromethane (Surr)	103		75 - 123					11/23/24 02:28	1
Method: SW846 8270D - Se	emivolatile Org	anic Com	oounds (GC/I	MS)					
	•	•				_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

1,3-Dichlorobenzene	ND		10	0.48	ug/L	11/22/24 13:39	11/25/24 18:34	1	
1,4-Dichlorobenzene	ND		10	0.46	ug/L	11/22/24 13:39	11/25/24 18:34	1	
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L	11/22/24 13:39	11/25/24 18:34	1	
Phenol	ND		5.0	0.39	ug/L	11/22/24 13:39	11/25/24 18:34	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
2,4,6-Tribromophenol	106		25 - 144			11/22/24 13:39	11/25/24 18:34	1	
2-Fluorobiphenvl	80		53 - 126			11/22/24 13:39	11/25/24 18:34	1	

2-Fluorobiphenyl	80	53 - 126	11/22/24 13:39	11/25/24 18:34	1	
2-Fluorophenol	54	24 - 120	11/22/24 13:39	11/25/24 18:34	1	
Nitrobenzene-d5	66	29 - 129	11/22/24 13:39	11/25/24 18:34	1	
Phenol-d5	40	10 - 120	11/22/24 13:39	11/25/24 18:34	1	
p-Terphenyl-d14	103	33 - 132	11/22/24 13:39	11/25/24 18:34	1	

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.020	0.0068	mg/L		11/25/24 10:33	11/26/24 14:11	1
Arsenic	ND		0.010	0.0056	mg/L		11/25/24 10:33	11/26/24 14:11	1
Barium	0.11		0.0020	0.00070	mg/L		11/25/24 10:33	11/26/24 14:11	1
Cadmium	ND		0.0010	0.00050	mg/L		11/25/24 10:33	11/26/24 14:11	1
Chromium	0.0035	J	0.0040	0.0010	mg/L		11/25/24 10:33	11/26/24 14:11	1
Copper	ND		0.010	0.0016	mg/L		11/25/24 10:33	11/26/24 14:11	1
Iron	0.10		0.050	0.019	mg/L		11/25/24 10:33	11/26/24 14:11	1
Lead	ND		0.0050	0.0030	mg/L		11/25/24 10:33	11/26/24 14:11	1
Magnesium	84.8		0.20	0.043	mg/L		11/25/24 10:33	11/26/24 14:11	1
Manganese	0.025		0.0030	0.00040	mg/L		11/25/24 10:33	11/26/24 14:11	1
Nickel	0.0029	J	0.010	0.0013	mg/L		11/25/24 10:33	11/26/24 14:11	1
Silver	ND		0.0030	0.0017	mg/L		11/25/24 10:33	11/26/24 14:11	1
Sodium	117		1.0	0.32	mg/L		11/25/24 10:33	11/26/24 14:11	1
Zinc	ND		0.010	0.0015	mg/L		11/25/24 10:33	11/26/24 14:11	1
- Method: SW846 7470A	A - Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		11/25/24 10:10	11/25/24 15:45	1

Client Sample ID: GW-07D-241121 Date Collected: 11/21/24 08:45 Date Received: 11/21/24 14:45

Job ID: 480)-225675-1
SDG: 480)-225675-1

Lab Sample ID: 480-225675-8

Matrix: Water

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Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		200	9.6	ug/L		11/22/24 13:39	11/25/24 19:00	20
1,4-Dichlorobenzene	ND		200	9.2	ug/L		11/22/24 13:39	11/25/24 19:00	20
Bis(2-ethylhexyl) phthalate	84	J	100	44	ug/L		11/22/24 13:39	11/25/24 19:00	20
Phenol	ND		100	7.8	ug/L		11/22/24 13:39	11/25/24 19:00	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		25 - 144				11/22/24 13:39	11/25/24 19:00	20
2-Fluorobiphenyl	78		53 - 126				11/22/24 13:39	11/25/24 19:00	20
2-Fluorophenol	43		24 - 120				11/22/24 13:39	11/25/24 19:00	20
Nitrobenzene-d5	56		29 - 129				11/22/24 13:39	11/25/24 19:00	20
Phenol-d5	30		10 - 120				11/22/24 13:39	11/25/24 19:00	20
p-Terphenyl-d14	68		33 - 132				11/22/24 13:39	11/25/24 19:00	20
/lethod: SW846 6010D - Me	etals (ICP)								
nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Intimony	ND		0.020	0.0068	mg/L		11/25/24 10:33	11/26/24 14:13	1
Arsenic	ND		0.010	0.0056	mg/L		11/25/24 10:33	11/26/24 14:13	1
Barium	0.098		0.0020	0.00070	mg/L		11/25/24 10:33	11/26/24 14:13	1
Cadmium	ND		0.0010	0.00050	mg/L		11/25/24 10:33	11/26/24 14:13	1
Chromium	0.055		0.0040	0.0010	mg/L		11/25/24 10:33	11/26/24 14:13	1
Copper	0.010		0.010	0.0016	mg/L		11/25/24 10:33	11/26/24 14:13	1
ron	5.8		0.050	0.019	mg/L		11/25/24 10:33	11/26/24 14:13	1
.ead	0.073		0.0050	0.0030	mg/L		11/25/24 10:33	11/26/24 14:13	1
lagnesium	37.9		0.20	0.043	mg/L		11/25/24 10:33	11/26/24 14:13	1
langanese	0.063		0.0030	0.00040	mg/L		11/25/24 10:33	11/26/24 14:13	1
lickel	0.036		0.010	0.0013	mg/L		11/25/24 10:33	11/26/24 14:13	1
liver	ND		0.0030	0.0017	mg/L		11/25/24 10:33	11/26/24 14:13	1
ទodium	89.5		1.0	0.32	mg/L		11/25/24 10:33	11/26/24 14:13	1
linc	0.042		0.010	0.0015	mg/L		11/25/24 10:33	11/26/24 14:13	1
/lethod: SW846 6010D - Me	etals (ICP) - Dis	solved							
nalyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
ntimony, Dissolved	ND		0.020	0.0068	mg/L		11/27/24 08:35	11/27/24 16:44	1
Arsenic, Dissolved	NC		0.010	0.0056	mg/L		11/27/24 08:35	11/27/24 16:44	1
Barium, Dissolved	0.075		0.0020	0.00070	mg/L		11/27/24 08:35	11/27/24 16:44	1
Cadmium, Dissolved	ND		0.0010	0.00050	mg/L		11/27/24 08:35	11/27/24 16:44	1
Chromium, Dissolved	0.0016	J	0.0040	0.0010	mg/L		11/27/24 08:35	11/27/24 16:44	1
Copper, Dissolved	ND		0.010	0.0016	mg/L		11/27/24 08:35	11/27/24 16:44	1
ron, Dissolved	0.021	J	0.050	0.019	mg/L		11/27/24 08:35	11/27/24 16:44	1
.ead, Dissolved	0.0032	J	0.0050	0.0030	mg/L		11/27/24 08:35	11/27/24 16:44	1
lagnesium, Dissolved	32.6		0.20	0.043	mg/L		11/27/24 08:35	11/27/24 16:44	1
langanese, Dissolved	0.020		0.0030	0.00040	mg/L		11/27/24 08:35	11/27/24 16:44	1
lickel, Dissolved	0.012		0.010	0.0013	mg/L		11/27/24 08:35	11/27/24 16:44	1
ilver, Dissolved	ND		0.0030	0.0017	mg/L		11/27/24 08:35	11/27/24 16:44	1
odium, Dissolved	79.6		1.0	0.32	mg/L		11/27/24 08:35	11/27/24 16:44	1
Linc, Dissolved	0.017		0.010	0.0015	mg/L		11/27/24 08:35	11/27/24 16:44	1
Method: SW846 7470A - Me	ercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
				0.000010				11/05/01 15 17	

Client Sample Results

Client: AECOM Project/Site: Pfohl Brothers Landfill Job ID: 480-225675-1 SDG: 480-225675-1

Client Sample ID: GW-07D-241121 Date Collected: 11/21/24 08:45 Date Received: 11/21/24 14:45

Lab Sample ID: 480-225675-8

Matrix: Water

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Method: SW846 7470A - Mercu	ıry (CVAA) -	- Dissolved							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	ND		0.00020	0.000042	mg/L		11/27/24 07:20	11/27/24 10:42	1

Client Sample ID: GW-07S-241121 Date Collected: 11/21/24 08:55 Date Received: 11/21/24 14:45

Job ID: 480-225675-
SDG: 480-225675-

Lab Sample ID: 480-225675-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	K
1,3-Dichlorobenzene	ND		10	0.48	ug/L		11/22/24 13:39	11/25/24 19:26	1	
1,4-Dichlorobenzene	ND		10	0.46	ug/L		11/22/24 13:39	11/25/24 19:26	1	6
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/22/24 13:39	11/25/24 19:26	1	
Phenol	ND		5.0	0.39	ug/L		11/22/24 13:39	11/25/24 19:26	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	d
2,4,6-Tribromophenol	82		25 - 144				11/22/24 13:39	11/25/24 19:26	1	
2-Fluorobiphenyl	81		53 - 126				11/22/24 13:39	11/25/24 19:26	1	
2-Fluorophenol	56		24 - 120				11/22/24 13:39	11/25/24 19:26	1	
Nitrobenzene-d5	70		29 - 129				11/22/24 13:39	11/25/24 19:26	1	
Phenol-d5	39		10_120				11/22/24 13:39	11/25/24 19:26	1	
p-Terphenyl-d14 	83		33 - 132				11/22/24 13:39	11/25/24 19:26	1	
_ Method: SW846 6010D - Me	tals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Antimony	ND		0.020	0.0068	mg/L		11/25/24 10:33	11/26/24 14:15	1	
Arsenic	ND		0.010	0.0056	mg/L		11/25/24 10:33	11/26/24 14:15	1	
Barium	0.35		0.0020	0.00070	mg/L		11/25/24 10:33	11/26/24 14:15	1	
Cadmium	ND		0.0010	0.00050	mg/L		11/25/24 10:33	11/26/24 14:15	1	
Chromium	0.092		0.0040	0.0010	mg/L		11/25/24 10:33	11/26/24 14:15	1	
Copper	0.0044	J	0.010	0.0016	mg/L		11/25/24 10:33	11/26/24 14:15	1	
Iron	0.75		0.050	0.019	mg/L		11/25/24 10:33	11/26/24 14:15	1	
Lead	ND		0.0050	0.0030	mg/L		11/25/24 10:33	11/26/24 14:15	1	
Magnesium	45.9		0.20	0.043	mg/L		11/25/24 10:33	11/26/24 14:15	1	
Manganese	0.083		0.0030	0.00040	mg/L		11/25/24 10:33	11/26/24 14:15	1	
Nickel	0.15		0.010	0.0013	mg/L		11/25/24 10:33	11/26/24 14:15	1	
Silver	ND		0.0030	0.0017	mg/L		11/25/24 10:33	11/26/24 14:15	1	
Sodium	58.3		1.0	0.32	mg/L		11/25/24 10:33	11/26/24 14:15	1	
Zinc	0.0068	J	0.010	0.0015	mg/L		11/25/24 10:33	11/26/24 14:15	1	
	rcury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury			0.00020	0.000042			11/05/04 10:10	11/05/04 15:40	1	

Client Sample ID: GW-34S-241121 Date Collected: 11/21/24 10:15 Date Received: 11/21/24 14:45

Lab Sample ID: 480-225675-10

Matrix: Water

5 6

Method: SW846 8260C - Vo	latile Organic	Compound	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 02:52	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 02:52	1
Acetone	ND		10	3.0	ug/L			11/23/24 02:52	1
Benzene	ND		1.0	0.41	ug/L			11/23/24 02:52	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/23/24 02:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120			-		11/23/24 02:52	1
Toluene-d8 (Surr)	113		80 - 120					11/23/24 02:52	1
4-Bromofluorobenzene (Surr)	104		73 - 120					11/23/24 02:52	1
Dibromofluoromethane (Surr)	105		75 - 123					11/23/24 02:52	1
_									
Method: SW846 8270D - Se	mivolatile Org	anic Com	oounds (GC/I	NS)					
• • •			<u> </u>			-	- ·		

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,3-Dichlorobenzene	ND		10	0.48	ug/L		11/22/24 13:39	11/25/24 19:53	1	
1,4-Dichlorobenzene	ND		10	0.46	ug/L		11/22/24 13:39	11/25/24 19:53	1	
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/22/24 13:39	11/25/24 19:53	1	
Phenol	ND		5.0	0.39	ug/L		11/22/24 13:39	11/25/24 19:53	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
2,4,6-Tribromophenol	89		25 - 144				11/22/24 13:39	11/25/24 19:53	1	

69	23 - 144	11/22/24 13.39	11/25/24 19.53	1	
89	53 - 126	11/22/24 13:39	11/25/24 19:53	1	
58	24 - 120	11/22/24 13:39	11/25/24 19:53	1	
74	29 - 129	11/22/24 13:39	11/25/24 19:53	1	
43	10 - 120	11/22/24 13:39	11/25/24 19:53	1	
80	33 - 132	11/22/24 13:39	11/25/24 19:53	1	
	89 58 74 43 80	89 23 - 144 89 53 - 126 58 24 - 120 74 29 - 129 43 10 - 120 80 33 - 132	89 23 - 144 11/22/24 13.39 89 53 - 126 11/22/24 13:39 58 24 - 120 11/22/24 13:39 74 29 - 129 11/22/24 13:39 43 10 - 120 11/22/24 13:39 80 33 - 132 11/22/24 13:39	89 25 - 144 11/22/24 13.39 11/25/24 19.53 89 53 - 126 11/22/24 13.39 11/25/24 19.53 58 24 - 120 11/22/24 13.39 11/25/24 19.53 74 29 - 129 11/22/24 13.39 11/25/24 19.53 43 10 - 120 11/22/24 13.39 11/25/24 19.53 80 33 - 132 11/22/24 13.39 11/25/24 19.53	89 23 - 144 11/22/24 13:39 11/25/24 19:53 1 89 53 - 126 11/22/24 13:39 11/25/24 19:53 1 58 24 - 120 11/22/24 13:39 11/25/24 19:53 1 74 29 - 129 11/22/24 13:39 11/25/24 19:53 1 43 10 - 120 11/22/24 13:39 11/25/24 19:53 1 80 33 - 132 11/22/24 13:39 11/25/24 19:53 1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.020	0.0068	mg/L		11/25/24 10:33	11/26/24 14:17	1
Arsenic	ND		0.010	0.0056	mg/L		11/25/24 10:33	11/26/24 14:17	1
Barium	0.072		0.0020	0.00070	mg/L		11/25/24 10:33	11/26/24 14:17	1
Cadmium	0.0028		0.0010	0.00050	mg/L		11/25/24 10:33	11/26/24 14:17	1
Chromium	0.0028	J	0.0040	0.0010	mg/L		11/25/24 10:33	11/26/24 14:17	1
Copper	0.0017	J	0.010	0.0016	mg/L		11/25/24 10:33	11/26/24 14:17	1
Iron	0.52		0.050	0.019	mg/L		11/25/24 10:33	11/26/24 14:17	1
Lead	ND		0.0050	0.0030	mg/L		11/25/24 10:33	11/26/24 14:17	1
Magnesium	66.4		0.20	0.043	mg/L		11/25/24 10:33	11/26/24 14:17	1
Manganese	0.18		0.0030	0.00040	mg/L		11/25/24 10:33	11/26/24 14:17	1
Nickel	0.0095	J	0.010	0.0013	mg/L		11/25/24 10:33	11/26/24 14:17	1
Silver	ND		0.0030	0.0017	mg/L		11/25/24 10:33	11/26/24 14:17	1
Sodium	53.1		1.0	0.32	mg/L		11/25/24 10:33	11/26/24 14:17	1
Zinc	ND		0.010	0.0015	mg/L		11/25/24 10:33	11/26/24 14:17	1
_ Method: SW846 7470A	A - Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		11/25/24 10:10	11/25/24 15:49	1

Client Sample ID: GW-03D-241121 Date Collected: 11/21/24 11:45 Date Received: 11/21/24 14:45

Job ID: 480-225675-1 SDG: 480-225675-1

Lab Sample ID: 480-225675-11

Matrix: Water

nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 03:17	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 03:17	1
Acetone	ND		10	3.0	ug/L			11/23/24 03:17	1
Benzene	ND		1.0	0.41	ug/L			11/23/24 03:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/23/24 03:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120					11/23/24 03:17	1
Toluene-d8 (Surr)	110		80 - 120					11/23/24 03:17	1
4-Bromofluorobenzene (Surr)	96		73 - 120					11/23/24 03:17	1
Dibromofluoromethane (Surr)	104		75_123					11/23/24 03:17	1
Method: SW846 8270D - Se	emivolatile Org	anic Com	oounds (GC	/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	2.0	J	10	0.48	ug/L		11/22/24 13:39	11/25/24 20:19	1
1,4-Dichlorobenzene	2.9	J	10	0.46	ug/L		11/22/24 13:39	11/25/24 20:19	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/22/24 13:39	11/25/24 20:19	1
Phenol	ND		5.0	0.39	ug/L		11/22/24 13:39	11/25/24 20:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		25 - 144				11/22/24 13:39	11/25/24 20:19	1
2-Fluorobiphenyl	80		53 - 126				11/22/24 13:39	11/25/24 20:19	1
2-Fluorophenol	54		24 - 120				11/22/24 13:39	11/25/24 20:19	1
Nitrobenzene-d5	69		29 - 129				11/22/24 13:39	11/25/24 20:19	1
Phenol-d5	38		10_120				11/22/24 13:39	11/25/24 20:19	1
p-Terphenyl-d14	83		33 - 132				11/22/24 13:39	11/25/24 20:19	1
Method: SW846 6010D - Me	etals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.020	0.0068	mg/L		11/25/24 10:33	11/26/24 14:30	1
Arsenic	ND		0.010	0.0056	mg/L		11/25/24 10:33	11/26/24 14:30	1
Barium	0.075		0.0020	0.00070	mg/L		11/25/24 10:33	11/26/24 14:30	1
Cadmium	ND		0.0010	0.00050	mg/L		11/25/24 10:33	11/26/24 14:30	1
Chromium	0.0026	J	0.0040	0.0010	mg/L		11/25/24 10:33	11/26/24 14:30	1
Copper	ND		0.010	0.0016	mg/L		11/25/24 10:33	11/26/24 14:30	1
Iron	1.0		0.050	0.019	mg/L		11/25/24 10:33	11/26/24 14:30	1
Lead	ND		0.0050	0.0030	mg/L		11/25/24 10:33	11/26/24 14:30	1
Magnesium	12.8		0.20	0.043	mg/L		11/25/24 10:33	11/26/24 14:30	1

					5				
Manganese	0.14		0.0030	0.00040	mg/L		11/25/24 10:33	11/26/24 14:30	1
Nickel	0.0043	J	0.010	0.0013	mg/L		11/25/24 10:33	11/26/24 14:30	1
Silver	ND		0.0030	0.0017	mg/L		11/25/24 10:33	11/26/24 14:30	1
Sodium	194		1.0	0.32	mg/L		11/25/24 10:33	11/26/24 14:30	1
Zinc	ND		0.010	0.0015	mg/L		11/25/24 10:33	11/26/24 14:30	1
	ercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		11/25/24 10:10	11/25/24 15:51	1

Manganese

Method: SW846 7470A - Mercury (CVAA)

Nickel

Sodium

Analyte

Mercury

Silver

Zinc

Client Sample ID: FD-11212024 Date Collected: 11/21/24 00:00 Date Received: 11/21/24 14:45

Job ID: 480-225675-1 SDG: 480-225675-1

Lab Sample ID: 480-225675-12

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 03:42	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 03:42	1
Acetone	ND		10	3.0	ug/L			11/23/24 03:42	1
Benzene	ND		1.0	0.41	ug/L			11/23/24 03:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/23/24 03:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		77 - 120					11/23/24 03:42	1
Toluene-d8 (Surr)	111		80 - 120					11/23/24 03:42	1
4-Bromofluorobenzene (Surr)	96		73 - 120					11/23/24 03:42	1
Dibromofluoromethane (Surr)	107		75 - 123					11/23/24 03:42	1
Method: SW846 8270D - Se	emivolatile Org	anic Com	oounds (GC	/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	2.0	J	10	0.48	ug/L		11/22/24 13:39	11/25/24 20:45	1
1,4-Dichlorobenzene	2.9	J	10	0.46	ug/L		11/22/24 13:39	11/25/24 20:45	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/22/24 13:39	11/25/24 20:45	1
Phenol	ND		5.0	0.39	ug/L		11/22/24 13:39	11/25/24 20:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	92		25 - 144				11/22/24 13:39	11/25/24 20:45	1
2-Fluorobiphenyl	91		53 - 126				11/22/24 13:39	11/25/24 20:45	1
2-Fluorophenol	60		24 - 120				11/22/24 13:39	11/25/24 20:45	1
Nitrobenzene-d5	73		29 - 129				11/22/24 13:39	11/25/24 20:45	1
Phenol-d5	42		10 - 120				11/22/24 13:39	11/25/24 20:45	1
p-Terphenyl-d14	90		33 - 132				11/22/24 13:39	11/25/24 20:45	1
Method: SW846 6010D - Me	etals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.020	0.0068	mg/L		11/25/24 10:33	11/26/24 14:32	1
Arsenic	ND		0.010	0.0056	mg/L		11/25/24 10:33	11/26/24 14:32	1
Barium	0.076		0.0020	0.00070	mg/L		11/25/24 10:33	11/26/24 14:32	1
Cadmium	ND		0.0010	0.00050	mg/L		11/25/24 10:33	11/26/24 14:32	1
Chromium	0.0013	J	0.0040	0.0010	mg/L		11/25/24 10:33	11/26/24 14:32	1
Copper	ND		0.010	0.0016	mg/L		11/25/24 10:33	11/26/24 14:32	1
Iron	0.96		0.050	0.019	mg/L		11/25/24 10:33	11/26/24 14:32	1
Lead	ND		0.0050	0.0030	mg/L		11/25/24 10:33	11/26/24 14:32	1
Magnasium	12.0		0.20	0.043	ma/l		11/25/24 10.33	11/26/24 14.32	1

11/25/24 10:33 11/26/24 14:32

11/25/24 10:33 11/26/24 14:32

11/25/24 10:33 11/26/24 14:32

11/25/24 10:33 11/26/24 14:32

11/25/24 10:33 11/26/24 14:32

11/25/24 10:10 11/25/24 15:54

Analyzed

0.0030

0.010

0.0030

1.0

RL

0.00020

0.010

0.15

0.0040 J

ND

198

ND

ND

Result Qualifier

0.00040 mg/L

0.0013 mg/L

0.0017 mg/L

0.0015 mg/L

MDL Unit

0.000042 mg/L

D

Prepared

0.32 mg/L

1

1

1

1

1

1

Dil Fac

Client Sample ID: GW-08D-241121 Date Collected: 11/21/24 13:15 Date Received: 11/21/24 14:45

Lab Sample ID: 480-225675-13

Matrix: Water

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 04:07	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 04:07	1
Acetone	ND		10	3.0	ug/L			11/23/24 04:07	1
Benzene	ND		1.0	0.41	ug/L			11/23/24 04:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/23/24 04:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			77 - 120					11/23/24 04:07	1
Toluene-d8 (Surr)	112		80 - 120					11/23/24 04:07	1
4-Bromofluorobenzene (Surr)	98		73 - 120					11/23/24 04:07	1
Dibromofluoromethane (Surr)	105		75 - 123					11/23/24 04:07	1
Method: SW846 8270D - Se	emivolatile Org	anic Com	ounds (GC/	NS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		10	0.48	ug/L		11/22/24 13:39	11/25/24 16:48	1
1,4-Dichlorobenzene	ND		10	0.46	ug/L		11/22/24 13:39	11/25/24 16:48	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/22/24 13:39	11/25/24 16:48	1
			50	0.39	ua/L		11/22/24 13:39	11/25/24 16:48	1
Phenol	ND		010		3				•
Phenol Surrogate	ND %Recovery	Qualifier	Limits		- 3		Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil
2,4,6-Tribromophenol	92		25 - 144	11/22/24 13:39	11/25/24 16:48	
2-Fluorobiphenyl	76		53 - 126	11/22/24 13:39	11/25/24 16:48	
2-Fluorophenol	51		24 - 120	11/22/24 13:39	11/25/24 16:48	
Nitrobenzene-d5	64		29 - 129	11/22/24 13:39	11/25/24 16:48	
Phenol-d5	36		10 - 120	11/22/24 13:39	11/25/24 16:48	
p-Terphenyl-d14	81		33 - 132	11/22/24 13:39	11/25/24 16:48	

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.020	0.0068	mg/L		11/25/24 10:33	11/26/24 14:34	1
Arsenic	ND		0.010	0.0056	mg/L		11/25/24 10:33	11/26/24 14:34	1
Barium	0.052		0.0020	0.00070	mg/L		11/25/24 10:33	11/26/24 14:34	1
Cadmium	ND		0.0010	0.00050	mg/L		11/25/24 10:33	11/26/24 14:34	1
Chromium	0.028		0.0040	0.0010	mg/L		11/25/24 10:33	11/26/24 14:34	1
Copper	0.0026	J	0.010	0.0016	mg/L		11/25/24 10:33	11/26/24 14:34	1
Iron	0.80		0.050	0.019	mg/L		11/25/24 10:33	11/26/24 14:34	1
Lead	ND		0.0050	0.0030	mg/L		11/25/24 10:33	11/26/24 14:34	1
Magnesium	10		0.20	0.043	mg/L		11/25/24 10:33	11/26/24 14:34	1
Manganese	0.034		0.0030	0.00040	mg/L		11/25/24 10:33	11/26/24 14:34	1
Nickel	0.014		0.010	0.0013	mg/L		11/25/24 10:33	11/26/24 14:34	1
Silver	ND		0.0030	0.0017	mg/L		11/25/24 10:33	11/26/24 14:34	1
Sodium	172		1.0	0.32	mg/L		11/25/24 10:33	11/26/24 14:34	1
Zinc	ND		0.010	0.0015	mg/L		11/25/24 10:33	11/26/24 14:34	1
_ Method: SW846 7470A	A - Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		11/25/24 10:10	11/25/24 15:56	1

Client Sample ID: GW-08SR-241121 Date Collected: 11/21/24 14:05 Date Received: 11/21/24 14:45

Job ID: 480-225675-1 SDG: 480-225675-1

Lab Sample ID: 480-225675-14

Matrix: Water

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6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			11/23/24 04:31	2
1,2-Dichloroethene, Total	ND		4.0	1.6	ug/L			11/23/24 04:31	2
Acetone	ND		20	6.0	ug/L			11/23/24 04:31	2
Benzene	ND		2.0	0.82	ug/L			11/23/24 04:31	2
Vinyl chloride	ND		2.0	1.8	ug/L			11/23/24 04:31	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120					11/23/24 04:31	2
Toluono da (Surr)	113		80 - 120					11/23/24 04:31	2
			73 120					11/23/24 04:31	2
4-Bromofluorobenzene (Surr)	98		13-120						

Analyte **Result Qualifier** RL MDL Unit Prepared Analyzed Dil Fac D 1,3-Dichlorobenzene ND 10 0.48 ug/L 11/22/24 13:39 11/25/24 21:12 1 1,4-Dichlorobenzene ND 10 0.46 ug/L 11/22/24 13:39 11/25/24 21:12 1 ND 5.0 11/22/24 13:39 11/25/24 21:12 Bis(2-ethylhexyl) phthalate 2.2 ug/L 1 11/22/24 13:39 11/25/24 21:12 Phenol ND 5.0 0.39 ug/L 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 2,4,6-Tribromophenol 117 25 - 144 11/22/24 13:39 11/25/24 21:12 1

1
1
1
1
1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.020	0.0068	mg/L		11/25/24 10:33	11/26/24 14:43	1
Arsenic	0.012		0.010	0.0056	mg/L		11/25/24 10:33	11/26/24 14:43	1
Barium	0,24		0.0020	0.00070	mg/L		11/25/24 10:33	11/26/24 14:43	1
Cadmium	ND		0.0010	0.00050	mg/L		11/25/24 10:33	11/26/24 14:43	1
Chromium	0.0026	J	0.0040	0.0010	mg/L		11/25/24 10:33	11/26/24 14:43	1
Copper	0.0032	J	0.010	0.0016	mg/L		11/25/24 10:33	11/26/24 14:43	1
Iron	21.8		0.050	0.019	mg/L		11/25/24 10:33	11/26/24 14:43	1
Lead	0.0032	J	0.0050	0.0030	mg/L		11/25/24 10:33	11/26/24 14:43	1
Magnesium	46.4		0.20	0.043	mg/L		11/25/24 10:33	11/26/24 14:43	1
Manganese	1.2		0.0030	0.00040	mg/L		11/25/24 10:33	11/26/24 14:43	1
Nickel	0.0021	J	0.010	0.0013	mg/L		11/25/24 10:33	11/26/24 14:43	1
Silver	ND		0.0030	0.0017	mg/L		11/25/24 10:33	11/26/24 14:43	1
Sodium	326		1.0	0.32	mg/L		11/25/24 10:33	11/26/24 14:43	1
Zinc	ND		0.010	0.0015	mg/L		11/25/24 10:33	11/26/24 14:43	1
	- Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		11/25/24 10:10	11/25/24 16:01	1

Client Sample Results

Client Sample ID: Trip Blank Date Collected: 11/21/24 00:00 Date Received: 11/21/24 14:45

Job ID: 480-225675-1 SDG: 480-225675-1

Lab Sample ID: 480-225675-15

Matrix: Water

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	latile Organic	Compoun	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 04:56	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 04:56	1
Acetone	ND		10	3.0	ug/L			11/23/24 04:56	1
Benzene	ND		1.0	0.41	ug/L			11/23/24 04:56	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/23/24 04:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120			-		11/23/24 04:56	1
Toluene-d8 (Surr)	111		80 - 120					11/23/24 04:56	1
4-Bromofluorobenzene (Surr)	97		73 - 120					11/23/24 04:56	1
Dibromofluoromethane (Surr)	103		75 - 123					11/23/24 04:56	1

Client Sample ID: GW-07D-241120 Date Collected: 11/20/24 10:10 Date Received: 11/21/24 14:45

Job ID: 480-225675-1 SDG: 480-225675-1

Lab Sample ID: 480-225675-16

Matrix: Water

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Method: SW846 8260C - Vo	latile Organic	Compound	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 05:20	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 05:20	1
Acetone	ND		10	3.0	ug/L			11/23/24 05:20	1
Benzene	ND		1.0	0.41	ug/L			11/23/24 05:20	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/23/24 05:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			77 - 120					11/23/24 05:20	1
Toluene-d8 (Surr)	112		80 - 120					11/23/24 05:20	1
4-Bromofluorobenzene (Surr)	102		73 - 120					11/23/24 05:20	1
Dibromofluoromethane (Surr)	105		75 - 123					11/23/24 05:20	1

Client Sample ID: GW-07S-241120 Date Collected: 11/20/24 11:35 Date Received: 11/21/24 14:45

Job ID: 480-225675-1 SDG: 480-225675-1

Lab Sample ID: 480-225675-17

Matrix: Water

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Method: SW846 8260C - Vo	latile Organic	Compound	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 05:45	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 05:45	1
Acetone	ND		10	3.0	ug/L			11/23/24 05:45	1
Benzene	ND		1.0	0.41	ug/L			11/23/24 05:45	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/23/24 05:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			77 - 120					11/23/24 05:45	1
Toluene-d8 (Surr)	114		80 - 120					11/23/24 05:45	1
4-Bromofluorobenzene (Surr)	100		73 - 120					11/23/24 05:45	1
Dibromofluoromethane (Surr)	107		75 - 123					11/23/24 05:45	1

Client Sample ID: GW-04S-241120-PDB Date Collected: 11/20/24 14:50 Date Received: 11/21/24 14:45

Lab Sample ID: 480-225675-18

Matrix: Water

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Method: SW846 8260C - Volatile Organic Compounds by GC/MS												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 06:10	1			
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 06:10	1			
Acetone	ND		10	3.0	ug/L			11/23/24 06:10	1			
Benzene	ND		1.0	0.41	ug/L			11/23/24 06:10	1			
Vinyl chloride	ND		1.0	0.90	ug/L			11/23/24 06:10	1			
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)			77 - 120					11/23/24 06:10	1			
Toluene-d8 (Surr)	113		80 - 120					11/23/24 06:10	1			
4-Bromofluorobenzene (Surr)	96		73 - 120					11/23/24 06:10	1			
Dibromofluoromethane (Surr)	107		75 - 123					11/23/24 06:10	1			

Client Sample ID: GW-29S-241122 Date Collected: 11/22/24 08:55 Date Received: 11/22/24 13:30

Job ID: 480-225675-1 SDG: 480-225675-1

Lab Sample ID: 480-225712-1

Matrix: Water

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 15:49	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 15:49	1
Acetone	ND		10	3.0	ug/L			11/23/24 15:49	1
Benzene	ND		1.0	0.41	ug/L			11/23/24 15:49	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/23/24 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			77 - 120					11/23/24 15:49	1
Toluene-d8 (Surr)	100		80 - 120					11/23/24 15:49	1
4-Bromofluorobenzene (Surr)	105		73 - 120					11/23/24 15:49	1
Dibromofluoromethane (Surr)	103		75 123					11/23/24 15:49	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,3-Dichlorobenzene	ND		10	0.48	ug/L		11/25/24 09:08	11/26/24 17:52	1	
1,4-Dichlorobenzene	ND		10	0.46	ug/L		11/25/24 09:08	11/26/24 17:52	1	
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/25/24 09:08	11/26/24 17:52	1	
Phenol	ND		5.0	0.39	ug/L		11/25/24 09:08	11/26/24 17:52	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
2,4,6-Tribromophenol	96		25 - 144				11/25/24 09:08	11/26/24 17:52	1	

2,4,6-Tribromophenol	96	25 - 144	11/25/24 09:08	11/26/24 17:52	1	
2-Fluorobiphenyl	78	53 - 126	11/25/24 09:08	11/26/24 17:52	1	
2-Fluorophenol	58	24 - 120	11/25/24 09:08	11/26/24 17:52	1	
Nitrobenzene-d5	71	29 - 129	11/25/24 09:08	11/26/24 17:52	1	
Phenol-d5	42	10 - 120	11/25/24 09:08	11/26/24 17:52	1	
p-Terphenyl-d14	65	33 - 132	11/25/24 09:08	11/26/24 17:52	1	

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0030	0.0017	mg/L		11/26/24 10:27	11/26/24 13:02	1
Arsenic	0.0096	J	0.010	0.0056	mg/L		11/26/24 10:27	11/26/24 13:02	1
Barium	0.21		0.0020	0.00070	mg/L		11/26/24 10:27	11/26/24 13:02	1
Cadmium	ND		0.0010	0.00050	mg/L		11/26/24 10:27	11/26/24 13:02	1
Chromium	ND		0.0040	0.0010	mg/L		11/26/24 10:27	11/26/24 13:02	1
Copper	ND		0.010	0.0016	mg/L		11/26/24 10:27	11/26/24 13:02	1
Iron	9.1		0.050	0.019	mg/L		11/26/24 10:27	11/26/24 13:02	1
Magnesium	59.8		0.20	0.043	mg/L		11/26/24 10:27	11/26/24 13:02	1
Manganese	0.54		0.0030	0.00040	mg/L		11/26/24 10:27	11/26/24 13:02	1
Sodium	11.2		1.0	0.32	mg/L		11/26/24 10:27	11/26/24 13:02	1
Nickel	ND		0.010	0.0013	mg/L		11/26/24 10:27	11/26/24 13:02	1
Lead	ND		0.0050	0.0030	mg/L		11/26/24 10:27	11/26/24 13:02	1
Antimony	ND		0.020	0.0068	mg/L		11/26/24 10:27	11/26/24 13:02	1
Zinc	ND)	0.010	0.0015	mg/L		11/26/24 10:27	11/26/24 13:02	1
	lercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		11/25/24 10:10	11/25/24 17:14	1

Client Sample ID: GW-30S-241122 Date Collected: 11/22/24 09:55 Date Received: 11/22/24 13:30

Job ID: 480-225675-1 SDG: 480-225675-1

Lab Sample ID: 480-225712-2

Matrix: Water

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			11/23/24 16:11	2
1,2-Dichloroethene, Total	ND		4.0	1.6	ug/L			11/23/24 16:11	2
Acetone	ND		20	6.0	ug/L			11/23/24 16:11	2
Benzene	ND		2.0	0.82	ug/L			11/23/24 16:11	2
Vinyl chloride	ND		2.0	1.8	ug/L			11/23/24 16:11	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120			-		11/23/24 16:11	2
Toluene-d8 (Surr)	101		80 - 120					11/23/24 16:11	2
4-Bromofluorobenzene (Surr)	103		73 - 120					11/23/24 16:11	2
Dibromofluoromethane (Surr)	105		75 123					11/23/24 16.11	2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,3-Dichlorobenzene	ND		11	0.52	ug/L		11/25/24 09:08	11/26/24 18:19	1	
1,4-Dichlorobenzene	ND		11	0.50	ug/L		11/25/24 09:08	11/26/24 18:19	1	
Bis(2-ethylhexyl) phthalate	ND		5.4	2.4	ug/L		11/25/24 09:08	11/26/24 18:19	1	
Phenol	ND		5.4	0.42	ug/L		11/25/24 09:08	11/26/24 18:19	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
2,4,6-Tribromophenol	93		25 - 144				11/25/24 09:08	11/26/24 18:19	1	
			50 (00				44/05/04 00 00	11/00/01 10 10		

2,4,0-11010110011001101	95	25 - 144	11/23/24 09.00	11/20/24 10.19	'
2-Fluorobiphenyl	88	53 - 126	11/25/24 09:08	11/26/24 18:19	1
2-Fluorophenol	66	24 - 120	11/25/24 09:08	11/26/24 18:19	1
Nitrobenzene-d5	76	29 - 129	11/25/24 09:08	11/26/24 18:19	1
Phenol-d5	52	10 - 120	11/25/24 09:08	11/26/24 18:19	1
p-Terphenyl-d14	68	33 - 132	11/25/24 09:08	11/26/24 18:19	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0030	0.0017	mg/L		11/26/24 10:27	11/26/24 13:11	1
Arsenic	ND		0.010	0.0056	mg/L		11/26/24 10:27	11/26/24 13:11	1
Barium	0.29		0.0020	0.00070	mg/L		11/26/24 10:27	11/26/24 13:11	1
Cadmium	ND		0.0010	0.00050	mg/L		11/26/24 10:27	11/26/24 13:11	1
Chromium	ND		0.0040	0.0010	mg/L		11/26/24 10:27	11/26/24 13:11	1
Copper	0.0017	J	0.010	0.0016	mg/L		11/26/24 10:27	11/26/24 13:11	1
Iron	14.4		0.050	0.019	mg/L		11/26/24 10:27	11/26/24 13:11	1
Magnesium	34.9		0.20	0.043	mg/L		11/26/24 10:27	11/26/24 13:11	1
Manganese	2.2		0.0030	0.00040	mg/L		11/26/24 10:27	11/26/24 13:11	1
Sodium	532		1.0	0.32	mg/L		11/26/24 10:27	11/26/24 13:11	1
Nickel	ND		0.010	0.0013	mg/L		11/26/24 10:27	11/26/24 13:11	1
Lead	0.0031	J	0.0050	0.0030	mg/L		11/26/24 10:27	11/26/24 13:11	1
Antimony	ND		0.020	0.0068	mg/L		11/26/24 10:27	11/26/24 13:11	1
Zinc	ND		0.010	0.0015	mg/L		11/26/24 10:27	11/26/24 13:11	1
_ Method: SW846 7470A	A - Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		11/25/24 10:10	11/25/24 17:19	1

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Client Sample ID: GW-31S-241122 Date Collected: 11/22/24 10:35 Date Received: 11/22/24 13:30

Lab Sample ID: 480-225712-3

11/25/24 09:08 11/26/24 18:47

11/25/24 09:08 11/26/24 18:47

Matrix: Water

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 16:33	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 16:33	1
Acetone	ND		10	3.0	ug/L			11/23/24 16:33	1
Benzene	ND		1.0	0.41	ug/L			11/23/24 16:33	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/23/24 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					11/23/24 16:33	1
Toluene-d8 (Surr)	101		80 - 120					11/23/24 16:33	1
4-Bromofluorobenzene (Surr)	105		73 - 120					11/23/24 16:33	1
Dibromofluoromethane (Surr)	104		75_123					11/23/24 16:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,3-Dichlorobenzene	ND		10	0.48	ug/L		11/25/24 09:08	11/26/24 18:47	1	
1,4-Dichlorobenzene	ND		10	0.46	ug/L		11/25/24 09:08	11/26/24 18:47	1	
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/25/24 09:08	11/26/24 18:47	1	
Phenol	ND		5.0	0.39	ug/L		11/25/24 09:08	11/26/24 18:47	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
2,4,6-Tribromophenol	100		25 - 144				11/25/24 09:08	11/26/24 18:47	1	
2-Fluorobiphenyl	95		53 - 126				11/25/24 09:08	11/26/24 18:47	1	
2-Fluorophenol	63		24 - 120				11/25/24 09:08	11/26/24 18:47	1	
Nitrobenzene-d5	81		20 120				11/25/24 00.08	11/26/24 18.47	1	

10 - 120

33 - 132

Method: SW846 6010D - Metals (ICP)

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Phenol-d5

p-Terphenyl-d14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0030	0.0017	mg/L		11/26/24 10:27	11/26/24 13:13	1
Arsenic	ND		0.010	0.0056	mg/L		11/26/24 10:27	11/26/24 13:13	1
Barium	0.17		0.0020	0.00070	mg/L		11/26/24 10:27	11/26/24 13:13	1
Cadmium	ND		0.0010	0.00050	mg/L		11/26/24 10:27	11/26/24 13:13	1
Chromium	ND)	0.0040	0.0010	mg/L		11/26/24 10:27	11/26/24 13:13	1
Copper	0.0018	J	0.010	0.0016	mg/L		11/26/24 10:27	11/26/24 13:13	1
Iron	4.2		0.050	0.019	mg/L		11/26/24 10:27	11/26/24 13:13	1
Magnesium	31.4		0.20	0.043	mg/L		11/26/24 10:27	11/26/24 13:13	1
Manganese	0.30		0.0030	0.00040	mg/L		11/26/24 10:27	11/26/24 13:13	1
Sodium	3.8		1.0	0.32	mg/L		11/26/24 10:27	11/26/24 13:13	1
Nickel	0.0074	J	0.010	0.0013	mg/L		11/26/24 10:27	11/26/24 13:13	1
Lead	ND		0.0050	0.0030	mg/L		11/26/24 10:27	11/26/24 13:13	1
Antimony	ND		0.020	0.0068	mg/L		11/26/24 10:27	11/26/24 13:13	1
Zinc	ND		0.010	0.0015	mg/L		11/26/24 10:27	11/26/24 13:13	1
	- Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		11/25/24 10:10	11/25/24 17:20	1

Client Sample ID: GW-32S-241122 Date Collected: 11/22/24 11:55 Date Received: 11/22/24 13:30

Lab Sample ID: 480-225712-4

11/25/24 09:08 11/26/24 19:14

11/25/24 09:08 11/26/24 19:14

11/25/24 09:08 11/26/24 19:14

Matrix: Water

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Method: SW846 8260C - Vo	latile Organic	Compound	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 16:55	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 16:55	1
Acetone	ND		10	3.0	ug/L			11/23/24 16:55	1
Benzene	ND		1.0	0.41	ug/L			11/23/24 16:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/23/24 16:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					11/23/24 16:55	1
Toluene-d8 (Surr)	101		80 - 120					11/23/24 16:55	1
4-Bromofluorobenzene (Surr)	105		73 - 120					11/23/24 16:55	1
Dibromofluoromethane (Surr)	102		75 - 123					11/23/24 16:55	1
 Mothod: SW846 8270D - So	mivolatile Ora	anic Com	ounds (GC/						

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,3-Dichlorobenzene	ND		10	0.50	ug/L		11/25/24 09:08	11/26/24 19:14	1	
1,4-Dichlorobenzene	ND		10	0.48	ug/L		11/25/24 09:08	11/26/24 19:14	1	
Bis(2-ethylhexyl) phthalate	ND		5.2	2.3	ug/L		11/25/24 09:08	11/26/24 19:14	1	
Phenol	ND		5.2	0.41	ug/L		11/25/24 09:08	11/26/24 19:14	1	-
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
2,4,6-Tribromophenol	89		25 - 144				11/25/24 09:08	11/26/24 19:14	1	
2-Fluorobiphenyl	81		53 - 126				11/25/24 09:08	11/26/24 19:14	1	
2-Fluorophenol	59		24 - 120				11/25/24 09:08	11/26/24 19:14	1	

Nitrobenzene-d5	73	29 - 129
Phenol-d5	47	10 - 120
p-Terphenyl-d14	75	33 - 132

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0030	0.0017	mg/L		11/26/24 10:27	11/26/24 13:25	1
Arsenic	ND		0.010	0.0056	mg/L		11/26/24 10:27	11/26/24 13:25	1
Barium	0.055		0.0020	0.00070	mg/L		11/26/24 10:27	11/26/24 13:25	1
Cadmium	ND		0.0010	0.00050	mg/L		11/26/24 10:27	11/26/24 13:25	1
Chromium	NE)	0.0040	0.0010	mg/L		11/26/24 10:27	11/26/24 13:25	1
Copper	ND		0.010	0.0016	mg/L		11/26/24 10:27	11/26/24 13:25	1
Iron	0.051		0.050	0.019	mg/L		11/26/24 10:27	11/26/24 13:25	1
Magnesium	26.1		0.20	0.043	mg/L		11/26/24 10:27	11/26/24 13:25	1
Manganese	0.10		0.0030	0.00040	mg/L		11/26/24 10:27	11/26/24 13:25	1
Sodium	4.5		1.0	0.32	mg/L		11/26/24 10:27	11/26/24 13:25	1
Nickel	0.0024	J	0.010	0.0013	mg/L		11/26/24 10:27	11/26/24 13:25	1
Lead	ND		0.0050	0.0030	mg/L		11/26/24 10:27	11/26/24 13:25	1
Antimony	ND		0.020	0.0068	mg/L		11/26/24 10:27	11/26/24 13:25	1
Zinc	ND		0.010	0.0015	mg/L		11/26/24 10:27	11/26/24 13:25	1
- Method: SW846 7470A	A - Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		11/25/24 10:10	11/25/24 17:22	1

Client Sample ID: GW-33S-241122 Date Collected: 11/22/24 12:45 Date Received: 11/22/24 13:30

Lab Sample ID: 480-225712-5

11/25/24 09:08 11/26/24 19:42

Matrix: Water

5

6

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Method: SW846 8260C - Vo	latile Organic	Compoun	ds by GC/I	MS					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 17:17	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 17:17	1
Acetone	ND		10	3.0	ug/L			11/23/24 17:17	1
Benzene	ND		1.0	0.41	ug/L			11/23/24 17:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/23/24 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120					11/23/24 17:17	1
Toluene-d8 (Surr)	103		80 - 120					11/23/24 17:17	1
4-Bromofluorobenzene (Surr)	104		73 - 120					11/23/24 17:17	1
Dibromofluoromethane (Surr)	105		75 - 123					11/23/24 17:17	1
Method: SW846 8270D - Se	mivolatile Org	anic Com	oounds (G	C/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		10	0.48	ug/L		11/25/24 09:08	11/26/24 19:42	1
1,4-Dichlorobenzene	ND		10	0.46	ug/L		11/25/24 09:08	11/26/24 19:42	1

Phenol	ND		5.0	0.39 ug/L	11/25/24 09:08	11/26/24 19:42	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	85		25 - 144		11/25/24 09:08	11/26/24 19:42	1
2-Fluorobiphenyl	78		53 - 126		11/25/24 09:08	11/26/24 19:42	1
2-Fluorophenol	53		24 - 120		11/25/24 09:08	11/26/24 19:42	1
Nitrobenzene-d5	69		29 - 129		11/25/24 09:08	11/26/24 19:42	1
Phenol-d5	41		10 - 120		11/25/24 09:08	11/26/24 19:42	1
p-Terphenyl-d14	74		33 - 132		11/25/24 09:08	11/26/24 19:42	1

5.0

2.2 ug/L

ND

Method: SW846 6010D - Metals (ICP)

Bis(2-ethylhexyl) phthalate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0030	0.0017	mg/L		11/26/24 10:27	11/26/24 13:27	1
Arsenic	ND		0.010	0.0056	mg/L		11/26/24 10:27	11/26/24 13:27	1
Barium	0.077		0.0020	0.00070	mg/L		11/26/24 10:27	11/26/24 13:27	1
Cadmium	ND		0.0010	0.00050	mg/L		11/26/24 10:27	11/26/24 13:27	1
Chromium	0.0052		0.0040	0.0010	mg/L		11/26/24 10:27	11/26/24 13:27	1
Copper	ND		0.010	0.0016	mg/L		11/26/24 10:27	11/26/24 13:27	1
Iron	0.064		0.050	0.019	mg/L		11/26/24 10:27	11/26/24 13:27	1
Magnesium	31.2		0.20	0.043	mg/L		11/26/24 10:27	11/26/24 13:27	1
Manganese	0.0053		0.0030	0.00040	mg/L		11/26/24 10:27	11/26/24 13:27	1
Sodium	3.5		1.0	0.32	mg/L		11/26/24 10:27	11/26/24 13:27	1
Nickel	0.0016	J	0.010	0.0013	mg/L		11/26/24 10:27	11/26/24 13:27	1
Lead	ND		0.0050	0.0030	mg/L		11/26/24 10:27	11/26/24 13:27	1
Antimony	ND		0.020	0.0068	mg/L		11/26/24 10:27	11/26/24 13:27	1
Zinc	ND		0.010	0.0015	mg/L		11/26/24 10:27	11/26/24 13:27	1
	lercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		11/25/24 10:10	11/25/24 17:23	1

Client Sample ID: TRIP BLANK Date Collected: 11/22/24 00:00 Date Received: 11/22/24 13:30

Job ID: 480-225675-1 SDG: 480-225675-1

Lab Sample ID: 480-225712-6

Matrix: Water

5 6

Method: SW846 8260C - Vo	latile Organic	Compoun	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 17:40	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 17:40	1
Acetone	ND		10	3.0	ug/L			11/23/24 17:40	1
Benzene	ND		1.0	0.41	ug/L			11/23/24 17:40	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/23/24 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			77 - 120					11/23/24 17:40	1
Toluene-d8 (Surr)	100		80 - 120					11/23/24 17:40	1
4-Bromofluorobenzene (Surr)	102		73 - 120					11/23/24 17:40	1
Dibromofluoromethane (Surr)	102		75 - 123					11/23/24 17:40	1

Client Sample ID: GW-28S-241121 Date Collected: 11/21/24 15:10 Date Received: 11/22/24 13:30

Job ID: 480-225675-1 SDG: 480-225675-1

Lab Sample ID: 480-225712-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 18:02	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 18:02	1
Acetone	ND		10	3.0	ug/L			11/23/24 18:02	1
Benzene	ND		1.0	0.41	ug/L			11/23/24 18:02	1
/inyl chloride	ND		1.0	0.90	ug/L			11/23/24 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					11/23/24 18:02	1
Foluene-d8 (Surr)	101		80 - 120					11/23/24 18:02	1
l-Bromofluorobenzene (Surr)	103		73 - 120					11/23/24 18:02	1
Dibromofluoromethane (Surr)	103		75 - 123					11/23/24 18:02	1
Method: SW846 8270D - Se	emivolatile Org	anic Com	oounds (GC/I	MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
.3-Dichlorobenzene	ND		10	0.48	ug/L		11/25/24 09:08	11/26/24 20:09	1
,			10	0.46	ug/L		11/25/24 09:08	11/26/24 20:09	1
,4-Dichlorobenzene	ND		10	0110	0				
,4-Dichlorobenzene bis(2-ethylhexyl) phthalate	ND ND		5.0	2.2	ug/L		11/25/24 09:08	11/26/24 20:09	1
,4-Dichlorobenzene šis(2-ethylhexyl) phthalate 'henol	ND ND ND		5.0 5.0	2.2 0.39	ug/L ug/L		11/25/24 09:08 11/25/24 09:08	11/26/24 20:09 11/26/24 20:09	1
1,4-Dichlorobenzene Bis(2-ethylhexyl) phthalate Phenol Surrogate	ND ND ND %Recoverv	Qualifier	5.0 5.0 <i>Limits</i>	2.2 0.39	ug/L ug/L		11/25/24 09:08 11/25/24 09:08 Prepared	11/26/24 20:09 11/26/24 20:09 Analyzed	1 1 Dil Fac

2,4,6-Tribromophenol	93	25 - 144	11/25/24 09:08 11/26/24 20:09 1
2-Fluorobiphenyl	82	53 - 126	11/25/24 09:08 11/26/24 20:09 1
2-Fluorophenol	54	24 - 120	11/25/24 09:08 11/26/24 20:09 1
Nitrobenzene-d5	69	29 - 129	11/25/24 09:08 11/26/24 20:09 1
Phenol-d5	41	10 - 120	11/25/24 09:08 11/26/24 20:09 1
p-Terphenyl-d14	67	33 - 132	11/25/24 09:08 11/26/24 20:09 1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0030	0.0017	mg/L		11/26/24 10:27	11/26/24 13:28	1
Arsenic	ND		0.010	0.0056	mg/L		11/26/24 10:27	11/26/24 13:28	1
Barium	0.078		0.0020	0.00070	mg/L		11/26/24 10:27	11/26/24 13:28	1
Cadmium	ND		0.0010	0.00050	mg/L		11/26/24 10:27	11/26/24 13:28	1
Chromium	ND		0.0040	0.0010	mg/L		11/26/24 10:27	11/26/24 13:28	1
Copper	0.010		0.010	0.0016	mg/L		11/26/24 10:27	11/26/24 13:28	1
Iron	2.9		0.050	0.019	mg/L		11/26/24 10:27	11/26/24 13:28	1
Magnesium	28.2		0.20	0.043	mg/L		11/26/24 10:27	11/26/24 13:28	1
Manganese	0.37		0.0030	0.00040	mg/L		11/26/24 10:27	11/26/24 13:28	1
Sodium	8.3		1.0	0.32	mg/L		11/26/24 10:27	11/26/24 13:28	1
Nickel	0.0024	J	0.010	0.0013	mg/L		11/26/24 10:27	11/26/24 13:28	1
Lead	ND		0.0050	0.0030	mg/L		11/26/24 10:27	11/26/24 13:28	1
Antimony	ND		0.020	0.0068	mg/L		11/26/24 10:27	11/26/24 13:28	1
Zinc	ND		0.010	0.0015	mg/L		11/26/24 10:27	11/26/24 13:28	1
Method: SW846 7470A - Merc	ury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		11/25/24 10:10	11/25/24 17:27	1

Client Sample ID: GW-26D-241121 Date Collected: 11/21/24 16:35 Date Received: 11/22/24 13:30

Lab Sample ID: 480-225712-8

Matrix: Water

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 18:24	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 18:24	1
Acetone	ND		10	3.0	ug/L			11/23/24 18:24	1
Benzene	ND		1.0	0.41	ug/L			11/23/24 18:24	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/23/24 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					11/23/24 18:24	1
Toluene-d8 (Surr)	101		80 - 120					11/23/24 18:24	1
4-Bromofluorobenzene (Surr)	105		73 - 120					11/23/24 18:24	1
Dibromofluoromethane (Surr)	103		75 - 123					11/23/24 18:24	1
- Method: SW846 8270D - Se	emivolatile Org	anic Com	oounds (GC/I	MS)					
			· · · · · · · · · · · · · · · · · · ·						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

1,3-Dichlorobenzene	ND		10	0.48	ug/L	11/25/24 09:08	11/26/24 20:37	1	
1,4-Dichlorobenzene	ND		10	0.46	ug/L	11/25/24 09:08	11/26/24 20:37	1	
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L	11/25/24 09:08	11/26/24 20:37	1	
Phenol	ND		5.0	0.39	ug/L	11/25/24 09:08	11/26/24 20:37	1	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
2,4,6-Tribromophenol	87		25 - 144			11/25/24 09:08	11/26/24 20:37	1	
2-Eluorobinhenvl	81		53 126			11/25/24 00.08	11/26/24 20.37	1	

2-Fluorobiphenyl	81	53 - 126	11/25/24 09:08	11/26/24 20:37	1	
2-Fluorophenol	57	24 - 120	11/25/24 09:08	11/26/24 20:37	1	
Nitrobenzene-d5	71	29 - 129	11/25/24 09:08	11/26/24 20:37	1	
Phenol-d5	42	10 - 120	11/25/24 09:08	11/26/24 20:37	1	
p-Terphenyl-d14	73	33 - 132	11/25/24 09:08	11/26/24 20:37	1	

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0030	0.0017	mg/L		11/26/24 10:27	11/26/24 13:30	1
Arsenic	ND		0.010	0.0056	mg/L		11/26/24 10:27	11/26/24 13:30	1
Barium	0.10		0.0020	0.00070	mg/L		11/26/24 10:27	11/26/24 13:30	1
Cadmium	ND		0.0010	0.00050	mg/L		11/26/24 10:27	11/26/24 13:30	1
Chromium	ND		0.0040	0.0010	mg/L		11/26/24 10:27	11/26/24 13:30	1
Copper	ND		0.010	0.0016	mg/L		11/26/24 10:27	11/26/24 13:30	1
Iron	1.7		0.050	0.019	mg/L		11/26/24 10:27	11/26/24 13:30	1
Magnesium	15.7		0.20	0.043	mg/L		11/26/24 10:27	11/26/24 13:30	1
Manganese	0.26		0.0030	0.00040	mg/L		11/26/24 10:27	11/26/24 13:30	1
Sodium	244		1.0	0.32	mg/L		11/26/24 10:27	11/26/24 13:30	1
Nickel	0.0019	J	0.010	0.0013	mg/L		11/26/24 10:27	11/26/24 13:30	1
Lead	ND		0.0050	0.0030	mg/L		11/26/24 10:27	11/26/24 13:30	1
Antimony	ND		0.020	0.0068	mg/L		11/26/24 10:27	11/26/24 13:30	1
Zinc	ND		0.010	0.0015	mg/L		11/26/24 10:27	11/26/24 13:30	1
_ Method: SW846 7470A - Mercu	ry (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		11/25/24 10:10	11/25/24 17:28	1

Client Sample ID: GW-35S-241121 Date Collected: 11/21/24 17:15 Date Received: 11/22/24 13:30

Job ID: 480-225675-1 SDG: 480-225675-1

Lab Sample ID: 480-225712-9

11/25/24 09:08 11/26/24 21:04

11/25/24 09:08 11/26/24 21:04

Matrix: Water

6

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/23/24 18:46	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			11/23/24 18:46	1
Acetone	ND		10	3.0	ug/L			11/23/24 18:46	1
Benzene	ND		1.0	0.41	ug/L			11/23/24 18:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/23/24 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					11/23/24 18:46	1
Toluene-d8 (Surr)	100		80 - 120					11/23/24 18:46	1
4-Bromofluorobenzene (Surr)	103		73 - 120					11/23/24 18:46	1
Dibromofluoromethane (Surr)	105		75 - 123					11/23/24 18:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,3-Dichlorobenzene	ND		10	0.50	ug/L		11/25/24 09:08	11/26/24 21:04	1	
1,4-Dichlorobenzene	ND		10	0.48	ug/L		11/25/24 09:08	11/26/24 21:04	1	
Bis(2-ethylhexyl) phthalate	ND		5.2	2.3	ug/L		11/25/24 09:08	11/26/24 21:04	1	
Phenol	ND		5.2	0.41	ug/L		11/25/24 09:08	11/26/24 21:04	1	ł
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
2,4,6-Tribromophenol	92		25 - 144				11/25/24 09:08	11/26/24 21:04	1	
2-Fluorobiphenyl	82		53 - 126				11/25/24 09:08	11/26/24 21:04	1	
2-Fluorophenol	60		24 - 120				11/25/24 09:08	11/26/24 21:04	1	
Nitrobenzene-d5	73		29 - 129				11/25/24 09:08	11/26/24 21:04	1	

10 - 120

33 - 132

Method: SW846 6010D - Metals (ICP)

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Phenol-d5

p-Terphenyl-d14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0030	0.0017	mg/L		11/26/24 10:27	11/26/24 13:32	1
Arsenic	ND		0.010	0.0056	mg/L		11/26/24 10:27	11/26/24 13:32	1
Barium	0.084		0.0020	0.00070	mg/L		11/26/24 10:27	11/26/24 13:32	1
Cadmium	ND		0.0010	0.00050	mg/L		11/26/24 10:27	11/26/24 13:32	1
Chromium	ND)	0.0040	0.0010	mg/L		11/26/24 10:27	11/26/24 13:32	1
Copper	ND		0.010	0.0016	mg/L		11/26/24 10:27	11/26/24 13:32	1
Iron	0.063		0.050	0.019	mg/L		11/26/24 10:27	11/26/24 13:32	1
Magnesium	28.5		0.20	0.043	mg/L		11/26/24 10:27	11/26/24 13:32	1
Manganese	0.37		0.0030	0.00040	mg/L		11/26/24 10:27	11/26/24 13:32	1
Sodium	4.1		1.0	0.32	mg/L		11/26/24 10:27	11/26/24 13:32	1
Nickel	0.0041	J	0.010	0.0013	mg/L		11/26/24 10:27	11/26/24 13:32	1
Lead	ND		0.0050	0.0030	mg/L		11/26/24 10:27	11/26/24 13:32	1
Antimony	ND		0.020	0.0068	mg/L		11/26/24 10:27	11/26/24 13:32	1
Zinc	ND)	0.010	0.0015	mg/L		11/26/24 10:27	11/26/24 13:32	1
_ Method: SW846 7470A	A - Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		11/25/24 10:10	11/25/24 17:30	1

APPENDIX B

SUPPORT DOCUMENTATION

Suffalo	Drive	14228-2298
ns l	vood	λ
Eurofi	10 Hazelv	Amherst,

Chain of Custody Record

🐇 eurofins

1887-180-01 / TO-001 - 187. 1 10-001 - 188.	Sampler: A1	1 1 110	1	-MO de I				1				
Client Information	Chris	+. / COILIE	H	Schov	, John R			Carrier Trac	king No(s):	COC No: 480-2009	10-13273 1	
Ms. Ann Marie Kropovitch	Phone: 716	107-050	36	E-Mail:		t ourofine		State of Orig	A V	Page	1.0101	
Company: AECOM		Δd	VSID:							Page 1 o	3	
Address 50 Lakefront Boulevard Suite 111	Due Date Requested					-	Analysis	Kequested		Preservat	n III +1	
city:	TAT Requested (day	e):		Τ	2153			_		D - HNO3 N - None		
State, Zip:	Stan	bard		1.000	1					A - HCL		
NY, 14202	Compliance Project:	∆ Yes ∆ N	0	Τ	S.R.							
Hone	PO#: 1663470			Γ			PM					
Email: ann.marie.kropovitch@aecom.com	WO # 60411174 111766	316 00000			(0	ţs	1.055					
Project Name Pfohl Brothers Landfill GW Monitoring	Project #:	00000-01-0		Sey (or No	12 140]	19					_
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GW-075-241120	1120124	1135	5	Vater	**	×				JIM MI		
CW-010-741120	Illeizy	1340	C	Vater	×	XX				9		
GW-015-241120	Harari	1430	C	Vater	×	XX				9		
134 - 645 - 241120- PDB	1120124	1450	S S	Vater		×				2		
GW-640-241120	1120/24	1615	C C	Vater	×	+ +				قرا		
GW - 045 - 241120	11/20/24	1630	S S	Vater	×	×				i chi		
1211H7 - 040 - MD	plaity	SHOO	S	Vater Y	×	×	×			4 5.04	filteral	
1211H2 - Sto - MS	11/21/24 0	2855	6	Vater	*	×				m	3	T
(5W - 34 5 - 24112)	u Lui 24	015	5	Vater	×	××						
6W-030-241121	11/12/11	IHS		Vater	×	××				2		
Possible Hazard Identification					Sample	Disposa	(A fee may	be assessed it	samples are I	etained longer	than 1 month)	Τ
Deliverable Requested: I, II, III, IV, Other (specify)		NII LAG	alological		Special I	eturn To (Slient Slient	Disposal By	Lab	Archive For	Months	
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Eurofins Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991	0	chain o	of Cust	ody R	ecor	σ					👬 eurofi	n S namnarint -	
Client Information	Sampler C. P.	1 Call	H	Lab Pr	A. Let			Carrier	Tracking No(s		COC No.		Г
Client Contact: Ms. Ann Marie Kropovitch	Phone 716	-406-	0596	E-Mail	Net JOIN	r e		State o	Origin:	4	480-200910 Page	-13273.2	T
Company: AECOM			-MSID		scrove	@et.eur	ofinsus.cor		2		Page 2 of 3		T
Address 50 Lakefront Boulevard Suite 111	Due Date Requeste	÷			1	-	Ana	liysis Kequest			Preservation	Codes:	
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Phone	Po#: 1663470				hitop								
Emait ann.marie.kropovitch@aecom.com Anneresteresteresteresteresteresterestere	WO #: 60411174.1117	5616.00000			NO)	List							
Pfohl Brothers Landfill GW Monitoring	Project #: 48002609				se or j	비야권	1 List				erenie		
sie Pfohl Brothers Landfill	#MOSS				eY) OS	- səlite	4019 -				f conta Other:		
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Sample Identification	Sample Date	Time	G=grab) B	r=Tissue, A=Air) on Code:	Leie	Z 857	× 826				Speci	al Instructions/Note:	
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CW-0854-241121	w/21/24	1405	9	Water		×	×				0		1
Irig Blank	11/21/24	١		Water)		T
				Water									T
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Possible Hazard Identification				Water									1
Non-Hazard Terminetion Skin Irritant Pois	son B	own R	adiological		Sam	Die Dis Returr	oosal (A fe To Client	e may be assess	ed if sampl al By Lab	es are rei	tained longer th	in 1 month) Months	T
Conversione requested. 1, 11, 11, 1V, Other (specify)					Spec	ial Instr	uctions/QC	Requirements:			0	MURINS	T
Crinpry Art Kelinguished by: Relinguished by:	Date of the	Date:			Time:			×	ethod of Shipr	nent.			Т
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Custody Seals Intact: Duetody Seal No.	Date/Time		<u>0</u>	ompany	<u>œ</u>	eceived b	×		Date	rTime.		Company	
Δ Yes Δ No					0	ooler Ten	perature(s) °(and Other Remarks				-	T
					1							Ver: 10/10/2024	٦

Job ID: 480-225675-1

Eurofins Buffalo

Job Narrative 480-225675-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/21/2024 2:45 PM and 11/22/2024 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.2°C, 5.2°C and 10.7°C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: GW-07D-241121 (480-225675-8), GW-07S-241121 (480-225675-9), GW-34S-241121 (480-225675-10), GW-03D-241121 (480-225675-11), FD-11212024 (480-225675-12), GW-08D-241121 (480-225675-13), GW-08SR-241121 (480-225675-14) and Trip Blank (480-225675-15). The sample(s) is considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

GC/MS VOA

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: GW-30S-241122 (480-225712-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: GW-08SR-241121 (480-225675-14). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA

Method 8270D: The following sample was diluted due to the nature of the sample matrix: GW-07D-241121 (480-225675-8). Elevated reporting limits (RLs) are provided.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: GW-07D-241121 (480-225675-8). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 480-733575 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. The following associated samples are impacted: GW-01D-241120 (480-225675-3), GW-01S-241120 (480-225675-4), GW-04S-241120 (480-225675-5), GW-04D-241120 (480-225675-6), GW-07D-241121 (480-225675-8), GW-07S-241121 (480-225675-9), GW-34S-241121 (480-225675-10), GW-03D-241121 (480-225675-11), FD-11212024 (480-225675-12), GW-08D-241121 (480-225675-13) and GW-08SR-241121 (480-225675-14).

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

Metals

Method 6010D: The absolute response for total Zinc was greater than the method reporting limit (RL) in the following sample: GW-30S-241122 (480-225712-2). The instrument raw data has been manually reviewed and the result can be reported as ND.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-733739 is outside the acceptance criteria for the following analytes: Silver, Copper, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Job ID: 480-225675-1

Job ID: 480-225675-1 (Continued)

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Method 6010D: The absolute response for total Zinc was greater than the method reporting limit (RL) in the following sample: GW-08SR-241121 (480-225675-14). The instrument raw data has been manually reviewed and the result can be reported as ND.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-733775 is outside the acceptance criteria for the following analytes: total Silver, Copper, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D - Dissolved: The linear range check (LRC) standard recovery associated with 480-733991 is outside the acceptance criteria for the following analytes: dissolved Silver and Lead. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

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

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 480-225675-13 MS Matrix: Water

Matrix: Water									Prep Type: Total/NA
Analysis Batch: 733775									Prep Batch: 733441
-	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Sodium	172		25.0	198.8	4	mg/L		107	75 - 125
Zinc	ND	^5-	0.500	0.508	^5-	mg/L		102	75_125

Lab Sample ID: 480-225675-13 MSD Matrix: Water

Analysis Batch: 733775									Ргер Ва	atch: 73	33441
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	ND		0.500	0.509		mg/L		102	75 - 125	0	20
Arsenic	ND		1.01	0.933		mg/L		93	75 - 125	2	20
Barium	0.052		1.00	0.994		mg/L		94	75 - 125	2	20
Cadmium	ND		0.500	0.475		mg/L		95	75 - 125	2	20
Chromium	0.028		0.499	0.509		mg/L		96	75 - 125	2	20
Copper	0.0026	J ^5+	0.500	0.470	^5+	mg/L		94	75 - 125	2	20
Iron	0.80		5.10	6.60		mg/L		114	75 - 125	1	20
Lead	ND		0.500	0.479		mg/L		96	75 - 125	2	20
Magnesium	10		25.0	36.58		mg/L		106	75 - 125	1	20
Manganese	0.034		0.498	0.504		mg/L		94	75 - 125	2	20
Nickel	0.014		0.501	0.490		mg/L		95	75 - 125	2	20
Silver	ND	^5-	0.0500	0.0558	^5-	mg/L		112	75 - 125	0	20
Sodium	172		25.0	200.9	4	mg/L		116	75 - 125	1	20
Zinc	ND	^5-	0.500	0.505	^5-	mg/L		101	75 - 125	0	20

Lab Sample ID: MB 480-733503/1-A Matrix: Water

Analysis Batch: 733739

Ν	IB MB							
Analyte Res	ult Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic N	1D	0.010	0.0056	mg/L		11/26/24 10:27	11/26/24 12:58	1
Barium 0.001	83 J	0.0020	0.00070	mg/L		11/26/24 10:27	11/26/24 12:58	1
Cadmium	1D	0.0010	0.00050	mg/L		11/26/24 10:27	11/26/24 12:58	1
Chromium 0.003	09 J	0.0040	0.0010	mg/L		11/26/24 10:27	11/26/24 12:58	1
Copper N	ID ^5+	0.010	0.0016	mg/L		11/26/24 10:27	11/26/24 12:58	1
Iron 0.02	38 J	0.050	0.019	mg/L		11/26/24 10:27	11/26/24 12:58	1
Magnesium N	1D	0.20	0.043	mg/L		11/26/24 10:27	11/26/24 12:58	1
Manganese 0.001	85 J	0.0030	0.00040	mg/L		11/26/24 10:27	11/26/24 12:58	1
Nickel	1D	0.010	0.0013	mg/L		11/26/24 10:27	11/26/24 12:58	1
Lead	1D	0.0050	0.0030	mg/L		11/26/24 10:27	11/26/24 12:58	1
Silver	ID ^5-	0.0030	0.0017	mg/L		11/26/24 10:27	11/26/24 12:58	1
Antimony N	1D	0.020	0.0068	mg/L		11/26/24 10:27	11/26/24 12:58	1
Sodium N	1D	1.0	0.32	mg/L		11/26/24 10:27	11/26/24 12:58	1
Zinc 0.002	49 J^5-	0.010	0.0015	mg/L		11/26/24 10:27	11/26/24 12:58	1

Lab Sample ID: LCS 480-733503/2-A

Matrix: water Analysis Batch: 733739							Prep Ty Prep Ba	pe: lotal/NA atch: 733503
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	 1.01	0.929		mg/L		92	80 - 120	

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Client Sample ID: GW-08D-241121

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 733503

Prep Type: Total/NA

8

8

Client Sample ID: GW-29S-241122

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 733771

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 480-225712-1 MSD Matrix: Water

Matrix: Water								Prep Type: Total/NA			
Analysis Batch: 733739									Prep Ba	itch: 73	33503
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Silver	ND	^5-	0.0500	0.0546	^5_	mg/L		109	75 - 125	3	20
Antimony	ND		0.500	0.510		mg/L		102	75 - 125	3	20
Sodium	11.2		25.0	38.34		mg/L		109	75 - 125	3	20
Zinc	0.0019	J ^5- B	0.500	0.493	^5-	mg/L		98	75_125	2	20

Lab Sample ID: MB 480-733771/1-A Matrix: Water Analysis Batch: 733991

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.00672	J	0.010	0.0056	mg/L		11/27/24 08:35	11/27/24 16:06	1
Barium, Dissolved	ND		0.0020	0.00070	mg/L		11/27/24 08:35	11/27/24 16:06	1
Cadmium, Dissolved	ND		0.0010	0.00050	mg/L		11/27/24 08:35	11/27/24 16:06	1
Chromium, Dissolved	ND		0.0040	0.0010	mg/L		11/27/24 08:35	11/27/24 16:06	1
Copper, Dissolved	ND		0.010	0.0016	mg/L		11/27/24 08:35	11/27/24 16:06	1
Iron, Dissolved	ND		0.050	0.019	mg/L		11/27/24 08:35	11/27/24 16:06	1
Magnesium, Dissolved	ND		0.20	0.043	mg/L		11/27/24 08:35	11/27/24 16:06	1
Manganese, Dissolved	ND		0.0030	0.00040	mg/L		11/27/24 08:35	11/27/24 16:06	1
Nickel, Dissolved	ND		0.010	0.0013	mg/L		11/27/24 08:35	11/27/24 16:06	1
Lead, Dissolved	ND	^5+	0.0050	0.0030	mg/L		11/27/24 08:35	11/27/24 16:06	1
Silver, Dissolved	ND	^5-	0.0030	0.0017	mg/L		11/27/24 08:35	11/27/24 16:06	1
Antimony, Dissolved	ND		0.020	0.0068	mg/L		11/27/24 08:35	11/27/24 16:06	1
Sodium, Dissolved	ND		1.0	0.32	mg/L		11/27/24 08:35	11/27/24 16:06	1
Zinc, Dissolved	ND		0.010	0.0015	mg/L		11/27/24 08:35	11/27/24 16:06	1

Lab Sample ID: LCS 480-733771/2-A Matrix: Water Analysis Batch: 733991

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 733771

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic, Dissolved	1.01	0.924		mg/L		92	80 - 120	
Barium, Dissolved	1.00	1.00		mg/L		100	80 - 120	
Cadmium, Dissolved	0.500	0.503		mg/L		101	80 - 120	
Chromium, Dissolved	0.499	0.494		mg/L		99	80 - 120	
Copper, Dissolved	0.500	0.490		mg/L		98	80 - 120	
Iron, Dissolved	5.10	5.20		mg/L		102	80 - 120	
Magnesium, Dissolved	25.0	24.29		mg/L		97	80 - 120	
Manganese, Dissolved	0.498	0.486		mg/L		98	80 - 120	
Nickel, Dissolved	0.501	0.497		mg/L		99	80 - 120	
Lead, Dissolved	0.500	0.524	^5+	mg/L		105	80 - 120	
Silver, Dissolved	0.0500	0.0520	^5-	mg/L		104	80 - 120	
Antimony, Dissolved	0.500	0.460		mg/L		92	80 - 120	
Sodium, Dissolved	25.0	24.72		mg/L		99	80 - 120	
Zinc, Dissolved	0.500	0.510		mg/L		102	80 - 120	

ATTACHMENT C

Photograph Log



Facility Name: Pfohl Brothers Landfill

Site Location: Cheektowaga, New York PHOTOGRAPH LOG









ΑΞϹΟΜ

Facility Name: Pfohl Brothers Landfill

Site Location: Cheektowaga, New York PHOTOGRAPH LOG

Project No. 60411174



Description:

WW-2 Facing north.









PHOTOGRAPH LOG

Facility Name: Pfohl Brothers Landfill Site Location: Cheektowaga, New York





PHOTOGRAPH LOG

Facility Name: Pfohl Brothers Landfill Site Location: Cheektowaga, New York







PHOTOGRAPH LOG

Facility Name: Pfohl Brothers Landfill Site Location: Cheektowaga, New York

Photo No. 11	Date: 11/20/24								
Facility Name:									
Pfohl Brothers Landfill									
Description	:								
Groundwater off-site monite GW-01S and along Transit northwest.	sampling at oring wells GW-01D Road, facing								




ATTACHMENT D IC/EC Certification



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



Sit	Site Details e No. 915043	Box 1	
Sit	e Name Pfohl Brothers Landfill		
Sit Cit Co Sit	e Address: Aero Drive and Transit Road Zip Code: 14225 y/Town: Cheektowaga unty:Erie e Acreage: 102.510		
Re	porting Period: January 01, 2024 to January 01, 2025		
		YES	NO
1.	Is the information above correct?	×	
	If NO, include handwritten above or on a separate sheet.		
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		×
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		×
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		×
	If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form	e	
5.	Is the site currently undergoing development?		×
		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Closed Landfill	×	
7.	Are all ICs in place and functioning as designed?	×	
	IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.	and	
AC	Corrective Measures Work Plan must be submitted along with this form to address t	hese iss	ues.
Sic	uncture of Owner, Remedial Party or Designated Representative		

Signature of Owner, Remedial Party or Designated Representative

SITE NO. 915043		Box 3	
Description of Institu	utional Controls		
Parcel	Owner	Institutional Control	
Portion of 81 04-1-26	Shahialal Momt Inc.		
	energalar night nie.	Ground Water Use Restriction Soil Management Plan Landuse Restriction Building Use Restriction Surface Water Use Restriction	
In accordance with the Dec on 4/25/03 and included as Controls are in place:	laration of Covenants and Restriction Appendix P in the Remedial Action	O&M Plan ns filed with the Erie County Clerk's Office Construction Report, Vol. II, the following	
A. Entire Site: i) Groundwa B. Capped Area: i) Fencing	ater use prohibition, ii) Surface water g, ii) No Excavation, iii) Planting trees	use prohibition. s/shrubs prohibited.	
C. Cleared Portion within t allowed. Construction restri	he Perimeter Barrier System: i) Only ictions.	Commercial/Industrial Development is	
Portion of 81.04-1-27	Paul Ptohl	Surface Water Lies Postriction	
		O&M Plan Ground Water Use Restriction Landuse Restriction	
In accordance with the Dec	leration of Covenants and Destriction	Soil Management Plan	
on 4/25/03 and included as Controls are in place:	Appendix P in the Remedial Action	Construction Report, Vol. II, the following	
A. Entire Site: i) Groundwa	ater use prohibition, ii) Surface water	use prohibition.	
B. Capped Area: i) Fencing C. Cleared Portion within t allowed. Construction restri	 B. Capped Area: i) Fencing, ii) No Excavation, iii) Planting trees/shrubs prohibited. C. Cleared Portion within the Perimeter Barrier System: i) Only Commercial/Industrial Development is allowed. Construction restrictions 		
Portion of 81.04-1-28.1	Paul Pfohl		
		Ground Water Use Restriction Landuse Restriction Soil Management Plan	
		Surface Water Use Restriction O&M Plan	
In accordance with the Dec on 4/25/03 and included as Controls are in place.	cordance with the Declaration of Covenants and Restrictions filed with the Erie County Clerk's Office 25/03 and included as Appendix P in the Remedial Action Construction Report, Vol. II, the following rols are in place:		
A. Entire Site: i) Groundwa B. Capped Area: i) Fencing	Entire Site: i) Groundwater use prohibition, ii) Surface water use prohibition. Capped Area: i) Fencing, ii) No Excavation, iii) Planting trees/shrubs prohibited.		
C. Cleared Portion within t allowed. Construction restri	he Perimeter Barrier System: i) Only ictions.	Commercial/Industrial Development is	
		Ground Water Use Restriction Landuse Restriction	

Building Use Restriction

In accordance with the Declaration of Covenants and Restrictions filed with the Erie County Clerk's Office on 4/25/03 and included as Appendix P in the Remedial Action Construction Report, Vol. II, the following Controls are in place:

A. Entire Site: i) Groundwater use prohibition, ii) Surface water use prohibition.

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C. Cleared Portion within the Perimeter Barrier System: i) Only Commercial/Industrial Development is allowed. Construction restrictions.

Portion of 81.04-2-11 Paul Pfohl

Soil Management Plan Surface Water Use Restriction O&M Plan Ground Water Use Restriction Landuse Restriction

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Portion of 81.04-2-9.1 Paul Pfohl

Surface Water Use Restriction O&M Plan Ground Water Use Restriction Landuse Restriction Soil Management Plan

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Portion of 82.03-4-10 Elizabeth L. McBride

Ground Water Use Restriction Landuse Restriction

Soil Management Plan Surface Water Use Restriction O&M Plan

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Soil Management Plan

Surface Water Use Restriction O&M Plan

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Portion of 82.03-4-9.11 Aero Land, Inc. c/o Jerome Hirsh

Soil Management Plan Surface Water Use Restriction O&M Plan Ground Water Use Restriction Landuse Restriction

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Portion of 82.03-4-9.12 Stuart Jenkins

Ground Water Use Restriction Landuse Restriction

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Portion of 82.03-4-9.2 Aero Land, Inc. c/o Jerome Hirsh

Soil Management Plan Surface Water Use Restriction O&M Plan Ground Water Use Restriction Landuse Restriction

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	Box
Description of Engineering Cont	rols
Parcel	Engineering Control
Portion of 81.04-1-26	
	Vapor Mitigation
	Fencing/Access Control
	Leachate Collection
Portion of 81.04-1-27	
	Cover System
	Leachate Collection
	Vapor Mitigation
For Declaration of Covenants and Restri Report, Vol. II	ctions, see Appendix P in the Remedial Action Construction
Portion of 81.04-1-28.1	
	Vapor Mitigation Cover System
	Leachate Collection
	Fencing/Access Control
For Declaration of Covenants and Restri Report, Vol. II Portion of 81 04 2 10 1	ctions, see Appendix P in the Remedial Action Construction
1 011011 01 01.04-2-10.1	Vapor Mitigation
	Cover System
	Leachate Collection Fencing/Access Control
For Declaration of Covenants and Restri	ctions, see Appendix P in the Remedial Action Construction
Report, Vol. II Portion of 81.04-2-11	
	Vapor Mitigation
	Leachate Collection
	Fencing/Access Control
For Declaration of Covenants and Restri Report, Vol. II Portion of 21 04 2 9 1	ctions, see Appendix P in the Remedial Action Construction
Portion of 81.04-2-9.1	Vapor Mitigation
	Cover System
	Leachate Collection
For Declaration of Covenants and Restri Report. Vol. II	ctions, see Appendix P in the Remedial Action Construction
Portion of 82.03-4-10	
	Vapor Mitigation
	Leachate Collection
	Fencing/Access Control
Portion of 82.03-4-11	
	Vapor Mitigation
	Leachate Collection
	Fencing/Access Control
For Declaration of Covenants and Restri	ctions, see Appendix P in the Remedial Action Construction
Portion of 82.03-4-5	

Vapor Mitigation

4

Parcel	Engineering Control
	Cover System
	Leachate Collection
For Declaration of Covenants and Restri	ictions, see Appendix P in the Remedial Action Construction
Report, Vol. II	
Poluon of 82.03-4-8	Vapor Mitigation
	Cover System
	Leachate Collection
	Fencing/Access Control
For Declaration of Covenants and Restri	ictions, see Appendix P in the Remedial Action Construction
Report, Vol. II	
Portion of 82.03-4-8	Vapor Mitigation
	Cover System
	Leachate Collection
	Fencing/Access Control
For Declaration of Covenants and Restr	ictions, see Appendix P in the Remedial Action Construction
Report, Vol. II	
Portion of 82.03-4-9.11	Vapor Mitigation
	Cover System
	Leachate Collection
	Fencing/Access Control
For Declaration of Covenants and Restri	ictions, see Appendix P in the Remedial Action Construction
Report, Vol. II	
Portion of 82.03-4-9.12	Vapor Mitigation
	Cover System
	Leachate Collection
	Fencing/Access Control
For Declaration of Covenants and Restri	ictions, see Appendix P in the Remedial Action Construction
Report, Vol. II	
Portion of 82.03-4-9.2	Vanar Mitigation
	Cover System
	Leachate Collection
	Fencing/Access Control
For Declaration of Covenants and Restrict Report, Vol. II	ictions, see Appendix P in the Remedial Action Construction

			Box 5
	Periodic Review Report (PRR) Certification Statements		
. I ce	rtify by checking "YES" below that:		
	a) the Periodic Review report and all attachments were prepared under the direct reviewed by, the party making the Engineering Control certification;	ction of,	and
	b) to the best of my knowledge and belief, the work and conclusions described in are in accordance with the requirements of the site remedial program, and gener	n this ce ally acc	ertificati epted
	engineering practices; and the information presented is accurate and compete.	YES	NO
		×	
For follo	each Engineering control listed in Box 4, I certify by checking "YES" below that all owing statements are true:	of the	
	(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Dep	partmen	t;
	(b) nothing has occurred that would impair the ability of such Control, to protect the environment;	public h	ealth ar
	(c) access to the site will continue to be provided to the Department, to evaluate remedy, including access to evaluate the continued maintenance of this Control;	the	
	(d) nothing has occurred that would constitute a violation or failure to comply wit Site Management Plan for this Control; and	h the	
	(e) if a financial assurance mechanism is required by the oversight document for mechanism remains valid and sufficient for its intended purpose established in the	r the site le docu	e, the ment.
		YES	NO
		×	
	IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.		
A Cor	rective Measures Work Plan must be submitted along with this form to address th	nese iss	sues.

IC C SIT	ERTIFICATIONS TE NO. 915043	Box 6
O & M Manager 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.		
IPatrick T. Bowen, P.Eat	Town of Cheektowaga Enginee 275 Alexander Ave, Cheektowa	ering Dept aga, NY 14211
am certifying as <u>Site O & M Manager</u>		(Owner or Remedial Party)
for the Site named in the Site Details Section	n of this form.	
Faluk Bowen Signature of Owner, Remedial Party, or Des Rendering Certification Site O & M Provi	ignated Representative der/Manager	2/1/25 Date

.

EC CERTIFICATIONS Box Professional Engineer Signature	¢7
punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.	
Patrick T. Bowen, P.Eat275 Alexander Ave, Cheektowaga, NY 14211	,
print name print business address	
am certifying as a Professional Engineer for theTown of Cheektowaga	
Patrick Bowen Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification OF NEW (Required for PE) 2/1/25	nwanager)