*Prepared for*

**Cortese Landfill Technical Committee**
**c/o Waste Management**
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# 2025 ANNUAL REPORT

# CORTESE LANDFILL SITE
# NARROWSBURG, NEW YORK

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# 1. INTRODUCTION

## 1.1 Purpose

On behalf of the Cortese Landfill PRP Group (the Group), Geosyntec Consultants and its New York affiliate B&B Engineers & Geologists of New York, P.C. (collectively Geosyntec) have prepared this 2025 Annual Monitoring Report (Annual Report) for the Cortese Landfill Site located in Narrowsburg, New York (the Site) in accordance with the Operation, Maintenance and Monitoring (OM&M) Plan (Geosyntec, 2014a) and subsequent revisions (Geosyntec, 2016a) (collectively OM&M Plan). This Annual Report provides a summary of OM&M activities and an evaluation of the effectiveness of the remedy components that have been implemented to date at the Site for Remedial Work Element I (RWE I) of the 1996 Consent Decree, Civil Action No. 96-CV-1513 (Consent Decree), Operable Unit 3 (OU3; Groundwater), and Operable Unit 4 (OU4; Source Areas). The remedy components were constructed in accordance with the Final (100%) Remedial Design for Remedial Work Element I (Golder, 1997a), Monitored Natural Attenuation (MNA) Remedial Design, Operable Unit 3 (MNA Plan; Geosyntec, 2013a), and the Final Remedial Design Report, Operable Unit 4, Source Areas (Geosyntec, 2012a). The OM&M Plan, the MNA Plan, and the OU3/OU4 Operations and Maintenance Quality Assurance Project Plan (O&M QAPP; Geosyntec, 2013b) describe the post-construction inspection, maintenance, and environmental monitoring activities that are required to evaluate the effectiveness of the remedial components in meeting the performance standards specified in the United States Environmental Protection Agency (USEPA) Record of Decision (ROD; USEPA, 1994a) and ROD/ROD Amendment (USEPA, 2010) for the Site.

This Annual Report specifically addresses the following groundwater and surface water performance monitoring and long-term maintenance activities:

- Groundwater monitoring near the source area (OU4) to evaluate remedy effectiveness and guide remedy implementation. Specifically, the 2025 data are used to evaluate if contaminant concentrations in groundwater have rebounded since suspending active treatment in October 2017 and if changes in source area treatment are warranted to meet remedy goals;

- Groundwater and surface water monitoring in the downgradient area (OU3) to detect potential effects of source treatment on groundwater contaminant concentrations downgradient of the landfill, evaluate plume stability and decreasing concentration trends to assess if MNA continues to be effective, evaluate progress toward attainment of OU3 Cleanup Goals, and evaluate potential impacts to receptors;

- Visual inspection and maintenance of the effectiveness of the landfill closure system components constructed during RWE 1 (OU2) that include the landfill closure cap

system, storm water management system, passive gas venting system, and Site security system; and

- Confirmation that institutional controls remain in place and no infringement to those controls are identified.

This Annual Report is the 27th annual report of long-term O&M activities performed at the Site for RWE I toward compliance with the 1996 Consent Decree and the August 2012 Amendment to the 1996 Consent Decree.

## 1.2 Site Description

The Site is located in Narrowsburg, Sullivan County, New York (see **Figure 1-1**). The Site property boundary encompasses approximately 3.75 acres of land owned by Mr. John Cortese and another 1.53-acre parcel along the northern margin of the Cortese property owned by the Town of Tusten, which purchased the property from Mr. Cortese in 1973. The landfill is located on the floodplain of the Delaware River and is bounded to the northeast by a steep bedrock escarpment and to the southwest by a railroad embankment (see **Figure 1-2**). The northern edge of the landfill lies approximately 70 feet south of the Narrowsburg Wastewater Treatment Plant. The Delaware River is approximately 400 feet southwest of the landfill, separated from the Site by the railroad embankment. Seven residences are located along the river across the railroad embankment from the Site. Other features of interest in the immediate area include a small backwater area (the embayment) along the eastern shoreline of the Delaware River located approximately 800 feet southwest of the landfill.

## 1.3 Site History

The Site received municipal solid waste (MSW) from approximately July 1970 to July 1981 at an estimated rate of approximately 3,000 cubic yards per year. For a six-month period in 1973, the Site received industrial wastes including paint thinners, sludge, solvents, dyes, waste oil, and other petroleum products. Disposal of these wastes included the burial of drums in trenches. According to depositional testimony of the former landfill owner/operator and landfill employees, drums were disposed in three areas in the landfill. Initially, drums were emptied and/or crushed or mixed with MSW in a trench located in the northwest corner of the landfill. Subsequently, drums were segregated from MSW and disposed intact in the main drum disposal area in the center of the landfill. Drums were also disposed intact in another area beyond the southern end of the landfill. Two septage lagoons located outside of the southern end of the landfill also received industrial waste. The locations of the former source areas are shown on **Figure 1-2**.

A Remedial Investigation (RI) was completed in January 1994 (Golder, 1994a) and a Feasibility Study (FS) was completed in August 1994 (Golder, 1994b) for the Site. Results of the RI indicated that groundwater previously impacted by the landfill and the former septage lagoons flows to the west/southwest toward the Delaware River. A 1994 ROD (USEPA, 1994a) specified the selected

remedial components for the Site, including natural attenuation for constituents in groundwater downgradient from the landfill. A Removal Action, including a source removal component for constituents of concern (COC) at the former septage lagoons and the intact drum disposal area (IDDA) located south of the landfill, was completed during 1995 pursuant to a 1994 Administrative Order on Consent (AOC, USEPA, 1994b).

A 1996 Consent Decree was entered for design and construction of the 1994 ROD remedy. The Consent Decree Scope of Work divided the remedy into two Remedial Work Elements. RWE I source control measures included removal of the IDDA within the landfill and construction of landfill closure systems. RWE II included groundwater extraction at the downgradient edge of the landfill and natural attenuation of downgradient areas and was intended to be implemented several years after construction of the RWE I source control measures.

Drums and soils determined to be Resource Conservation and Recovery Act (RCRA) hazardous waste were excavated and transported off-site for treatment and disposal in 1996. Contaminated soils excavated from these areas, which were not RCRA characteristic hazardous wastes, were placed beneath the landfill cover and above the seasonal high groundwater table. The landfill closure cover was constructed in 1997. Routine groundwater monitoring began in October 1996 pursuant to the Remedial Design Work Plan (Golder, 1996a), Sampling, Analysis and Monitoring Plan (Golder, 1996b), and Quality Assurance Project Plan (Golder, 1996c).

Following RWE I construction, the Group completed the remedial design of the groundwater extraction and treatment component of RWE II (CRA, 2010). Concurrently, the Group evaluated a number of remedial alternatives to the groundwater extraction and treatment components of RWE II. Data from a source area investigation performed in 2004 (Golder, 2004a) showed an area beneath former IDDA 1b that contained previously undocumented sorbed-phase and residual-phase (i.e., non-mobile, non-aqueous phase liquid [NAPL]) Volatile Organic Compound (VOC) contamination. Additional source characterization was conducted in 2007 to further evaluate the horizontal and vertical extent of the new source area and to provide data to support the selection and design of potential in-situ source area treatment technologies (Golder 2007a-c, 2008a). In 2010, the Former Source Areas Feasibility Study (Geosyntec, 2010a) evaluated remedial alternatives for the residual source materials beneath the former source areas. In-situ source treatment in combination with MNA was selected as the remedial action for groundwater near the former source areas. USEPA amended the 1994 ROD (hereinafter the "2010 ROD/ROD Amendment"; USEPA, 2010) and a Consent Decree amendment was entered to treat the additional source materials (OU4) and change the near-source groundwater remediation technology for RWE II groundwater (i.e., OU3) to MNA. Operation and maintenance of OU3 began in April 2014 in accordance with the USEPA approved MNA Plan.

The in-situ source treatment at OU4 was designed to remove COCs from groundwater at or beneath the former source areas and thereby enhance the rate of dissolution of residual source material. The enhanced dissolution reduced or eliminated the potential for future releases from the former

source areas and for contaminant migration. The reduction or elimination of the mass discharge from the former source areas will ultimately promote the restoration of the aquifer downgradient of the landfill in conjunction with MNA of downgradient groundwater (OU3).

The remedial components for in-situ source treatment at OU4 included:

- Air sparging;
- Soil vapor extraction and off-gas treatment;
- Amendment additions (e.g., ozone) during air sparging or other amendment additions without air sparging;
- Stabilization; and
- Post-stabilization In-Situ Chemical Oxidation (ISCO) application, if necessary.

The Remedial Design for OU4 was submitted to USEPA in August 2011 and revised in March 2012 (Geosyntec, 2012a). Construction of OU4 in-situ source area treatment began in December 2012 and was completed in September 2013. OU4 construction included construction of the AS and SVE systems and installation of vapor-phase granular activated carbon (VGAC) units for off-gas treatment. Operation and maintenance of the OU4 Source Area Remedial Action began in September 2014 and was suspended in October 2017 upon agency approval (Geosyntec, 2017b; USEPA, 2017).

A Remedial Action Report (Geosyntec, 2020a) for OU4 was approved by USEPA on 30 September 2020 (USEPA, 2020). The Remedial Action Report demonstrated and documented construction and operation of the OU4 Remedial Action and that performance standards described in the 2012 Remedial Design for OU4 were successfully achieved.

## 1.4 Conceptual Site Model

### 1.4.1 Site Geology

In the vicinity of the Site, a deep channel has been incised by the Delaware River into the Upper Devonian sandstone bedrock of the Catskill Formation. Pleistocene sediments of glacial origin were deposited and reworked in the river valley, resulting in channel, bar and over bank deposits typical of this depositional environment. The resulting lithofacies consist of unconsolidated, densely packed sands and silty sands with intervals and lenses locally rich in either silty clay or gravel. A thin mantle of silt, resulting from post-glacial flooding of the valley, overlies the coarser deposits at the present land surface.

At the landfill, the surficial clayey silt layer averages less than 10 feet in thickness and might have been locally removed during initial landfill trench and fill operations. This silt layer is underlain

by sands and gravels/river cobbles to a depth of approximately 30 to 40 feet below ground surface (bgs), forming the 'upper sand and gravel unit'. At IDDA 1b, the upper sand and gravel unit varied from approximately 9 to 22 feet in thickness. Within the upper sand and gravel unit, there were many individual layers of varying proportions of silty sand, sandy silt, fine to coarse sand, fine to coarse gravel, and cobbles (trace). In general, fine-grained lenses (silty clay and clayey silt) were not observed within the upper sand and gravel unit. The upper sand and gravel deposits are generally underlain by discontinuous intervals (facies) of "intermediate" fine sand and silty clay. The transition from the upper sand and gravel unit to the deeper fine sand and silt unit varied from a sharp contrast in some borings to a more gradual transition zone in others. Additional sand and gravel units occur at some locations between the intermediate sand/silty clay and the top of bedrock. Bedrock was encountered at depths ranging from 38 to 78 feet bgs in the vicinity of former IDDA 1b.

### 1.4.2 Site Hydrogeology

Results from the aquifer pumping tests conducted during the Phase II RI hydrogeologic characterization indicate that the overburden deposits in the study area behave as a single hydrogeologic unit. Throughout the entire thickness of unconsolidated sediments, groundwater occurs under water table conditions, such that the unit acts as an unconfined aquifer. Bedrock forms a second, deeper hydrogeologic unit. Groundwater flows to the southwest toward, but oblique to, the Delaware River. Groundwater flows from the vicinity of former IDDA 1b source area toward the Delaware River.

A conceptual groundwater flow system was developed for the Site area during the RI and has been updated based upon additional monitoring data from wells installed in 2011 and 2013. Groundwater flows through fractures in the bedrock from the topographic highs (the escarpment) and discharges into the unconsolidated sediments of the Delaware River floodplain where it mixes with groundwater recharged along the floodplain, and then discharges at the topographic low (the river). Groundwater flow in the overburden sediments in the Site vicinity is predominantly horizontal toward the river, but also has a downward vertical component downgradient from IDDA 1b. This results in a diving plume scenario where monitoring wells located between the railroad embankment and the Delaware River have higher concentrations at intermediate overburden depths compared to shallow wells screened at the water table. The calculated average groundwater velocity is 33.1 feet per year based upon a hydraulic conductivity of $1.6 \times 10^{-2}$ cm/sec, an average horizontal gradient for 2025 of 0.0003[1] (but has historically ranged up to 0.009), and an assumed porosity of 30 percent. Using the maximum historical horizontal gradient, groundwater flow velocities can be as high as 500 feet per year on a short-term basis.

[1] The historical average horizontal gradient was 0.003.

### 1.4.3 Nature and Extent of Source Area Contamination

The following Target Compound List (TCL) VOCs were detected in at least one soil sample at IDDA 1b prior to OU4 operation:

| | |
|---|---|
| Aromatic Hydrocarbons | Benzene, Toluene, Ethylbenzene, Xylenes, and Naphthalene; |
| Chlorinated Aromatics | 1,2,4- Trichlorobenzene, 1,2-Dichlorobenzene, and 1,4-Dichlorobenzene; |
| Chloromethanes | Carbon Tetrachloride and Chloroform; |
| Chlorinated Ethanes | 1,1,1-Trichloroethane (TCA); |
| Chlorinated Ethenes | Tetrachloroethene (PCE), Trichloroethene (TCE), cis-1,2-Dichloroethene (cDCE), and Vinyl Chloride (VC); and |
| Ketones | Acetone, 2-Butanone (MEK), and 4-Methyl-2-pentanone (MIBK). |

The estimated source area at IDDA 1b was approximately 21,000 square feet (0.5 acre). The depth interval where TCL VOC concentrations were detected in soil was 15 to 40 feet bgs. Most exceedances were between 23 and 30 feet bgs. There were no detections of TCL VOCs in deep soil samples (55 to 80 feet bgs). Total petroleum hydrocarbons (TPH) data indicate that TCL VOCs and semi-volatile organic compounds (SVOCs) comprised a minor percentage of the total contaminant mass.

From 2004 to 2016, free-phase NAPL has been intermittently detected at wells MW-13, MW-16, S-1, and S-2 within the estimated source area with thicknesses up 0.74 feet but more often at thicknesses less than 0.2 feet. These measurements indicated that there was a smear zone of free-phase and residual NAPL at the depth of groundwater table fluctuation. The depth interval where residual product is likely to have occurred was from 15 to 40 feet bgs, primarily between 23 and 30 feet bgs.

Although the 2010 ROD envisioned additional source area treatment at former IDDA 2 and the former septage lagoons, TCL VOCs were only detected in 15 of the 72 soil samples collected during air sparge well installation in those areas during 2012 and 2013 (Geosyntec, 2013c). Only two (2) of the 15 samples with TCL VOC detections had concentrations above 25 micrograms per kilogram (µg/kg). In addition, no potential presence of NAPL was indicated in the samples collected and no direct evidence of NAPL nor odor was observed in the field. Consequently, former IDDA 2 and the former septage lagoons did not require active treatment.

### 1.4.4 Nature and Extent of Groundwater Contamination

Historically, TCL VOCs, SVOCs, inorganics, and TPH have been detected in groundwater samples from within the source areas and downgradient of the Site. Chlorinated aliphatic hydrocarbons, chlorinated aromatic hydrocarbons, and non-chlorinated aromatic hydrocarbons (benzene, toluene, ethylbenzene and total xylenes, collectively referred to as BTEX) were the prevalent TCL VOCs in the source area. SVOCs consistently detected in the IDDA 1b source area wells were chlorinated benzenes, phenolic compounds, phthalate compounds, and polynuclear aromatic hydrocarbons (PAHs). Gasoline range organics (GRO) and diesel range organics (DRO) were detected during TPH analysis of groundwater samples at the source areas. Iron, manganese, and arsenic concentrations also exceeded ROD cleanup levels in groundwater samples near the source areas. Those metals were likely derived from naturally occurring aquifer solids and are mobilized by the anaerobic conditions in the source area. There were strong seasonal fluctuations in constituent concentrations at the source area.

The types of TCL VOCs detected in groundwater samples downgradient of the landfill included aromatic hydrocarbons, chlorinated aromatic hydrocarbons, and chlorinated aliphatic hydrocarbons. Chlorinated aliphatic hydrocarbons were the most prevalent VOCs in most of the downgradient wells. SVOCs and TPH were generally not detected in downgradient monitoring wells except for MW-18B. Metals that include iron, manganese, and arsenic occurred at concentrations that were above ROD cleanup levels in most downgradient wells. The seasonal fluctuations of constituent concentrations were less pronounced at the downgradient wells compared to those near the source area.

The extent of groundwater above ROD cleanup levels occurred in an approximately 1,300-foot wide zone between the landfill and the Delaware River. There were very rapid concentration decreases away from the source area in both the downgradient and side-gradient directions.

### 1.4.5 Constituent Transport, Fate, and Persistence

Prior to construction of the source control measures, the upper sand and gravel unit was likely in a quasi-equilibrium steady state condition with respect to sorption because the COC plume had reached the Delaware River by the late 1980s. Recent data have shown there is currently an overall trend of declining COC mass in the source areas. Near the source areas, TCL VOCs and SVOCs were generally confined to shallow zones of the aquifer, which also have a higher hydraulic conductivity compared to the deeper zones. Therefore, the overall extent of VOCs and SVOCs indicate that most of the mass flux of VOCs toward the Delaware River is expected to be within the upper sand and gravel unit. However, it should be noted that downgradient from former IDDA 1b near the Delaware River, higher VOC concentrations were detected in samples from monitoring wells that are screened in the intermediate depth of the saturated zone, compared to samples from monitoring wells that are screened in the upper sand and gravel unit. Those higher concentrations might be due to downward gradients in the vicinity of former IDDA 1b and/or geologic

heterogeneities that provide preferential migration pathways toward the intermediate depth zones or due to precipitation recharge in downgradient areas.

Prior to OU4 treatment system startup, contaminant concentrations at individual wells generally did not show strongly declining trends over time. Concentrations were stable with seasonal fluctuation ranges and overall declining VOC and SVOC concentrations along groundwater migration pathways from the landfill toward the Delaware River since the late 1980s.

In general, minor changes in the concentrations of arsenic, iron, and manganese were detected prior to OU4 treatment system startup. The redox-induced mobilization of iron, manganese, and arsenic is not expected to change until most of the reduced organic carbon from MSW leachate and NAPL that is present in the sediments beneath the groundwater table at the remaining source areas has been depleted. Although the concentrations of these metals decrease toward the river, they are still present at relatively high concentrations compared to the historical results from background and side-gradient wells.

Natural attenuation processes have caused significant mass reduction (approximately 90 percent) along the groundwater advective transport pathway prior to reaching the river, even prior to OU4 operations. However, redox conditions likely do not rebound to background (aerobic) conditions prior to discharge of shallow groundwater to the Delaware River and some TCL compounds persist in off-site groundwater. Analysis of natural attenuation parameters in groundwater prior to OU4 operations, performed as part of long-term monitoring since 1995, has confirmed the presence of several natural-attenuation indicators as outlined in the 2010 ROD. Indirect lines of evidence (geochemical footprints) of anaerobic biodegradation processes have been documented in groundwater at the Site, including accumulation of reductive dechlorination daughter products VC and cDCE from PCE and TCE parent compounds detected in source area soils; 1,1-dichloroethane and chloroethane from the TCA parent compound; chlorobenzene from the trichlorobenzene- and dichlorobenzene-isomer parent compounds; and chloroform and methylene chloride from the carbon tetrachloride parent compound. This was further supported by the detection of ethane and ethene in groundwater samples at concentrations several orders of magnitude greater than background concentrations. The low concentrations of BTEX and total organic carbon (TOC) electron donors downgradient of the landfill as compared to near the source area suggested anaerobic mineralization of BTEX compounds. Evidence of active anaerobic microbial processes in groundwater downgradient from the landfill were indicated by the reduced concentrations of electron acceptors such as dissolved oxygen (DO), nitrate, and sulfate and increased concentrations of products of microbial processes, including ammonia, iron, manganese, and methane. Finally, the 16S-RNA gene of *Dehalococcoides* has been detected in samples of aquifer solids from the source area and *Dehalococcoides* possessing the VC reductase (vcrA) gene were detected in the source area groundwater samples in 2011, which provides direct evidence of the presence of bacteria with the ability to accomplish complete reductive dechlorination of chlorinated ethenes.

Site-related constituents were previously detected in the Delaware River and the embayment due to groundwater discharge. Since 2018 (post treatment period) total TCL VOCs in the Delaware River have consistently not been detected, with exception of one sample collected in 2019 that had a total TCL VOC concentration of 4 micrograms per liter (µg/L) at the upriver station (SW-DRU). The detection in this sample was for acetone (a common laboratory contaminant) and did not exceed surface water cleanup standards.

## 1.5 O&M Project Team

The O&M project team consists of:

- Cortese Landfill PRP Group (the Group) – overall responsible party for implementing the remedial actions for RWE I, OU3, and OU4;
- B&B Engineers & Geologists of New York, P.C. – Supervising Contractor responsible for monitoring progress of remedial work completed by other contractors retained by the Group, regulatory agency liaison, and annual reporting;
- Terra Nova Technical Corp. (Terra Nova) – environmental monitoring subcontractor responsible for groundwater and surface water sampling in accordance with the MNA Plan, the OM&M Plan and the O&M QAPP;
- Eurofins Environment Testing Northeast, LLC. (Eurofins) – laboratory subcontractor responsible for OU3 and OU4 sample analyses and analytical data quality in accordance with the OM&M Plan and the O&M QAPP; and
- KAI's Associated Industries, LLC. (KAI) – landscaping subcontractor responsible for Site-wide vegetation management and maintenance.
- Town of Tusten – responsible party for maintenance activities including mowing the Site.

## 1.6 Report Organization

The remainder of this Annual Report is organized as follows:

- A summary of the work performed at the Site in 2025 toward compliance with the 1996 Consent Decree and the August 2012 Amendment to the 1996 Consent Decree is presented in Section 2;
- OU3 and OU4 groundwater and surface water performance monitoring activities conducted in 2025 and associated results are presented and discussed in Section 3;
- Results from the annual inspection of RWE I are provided in Section 4;

- A review of Site institutional controls is presented in Section 5;
- Green remediation metrics are discussed in Section 6;
- Conclusions are presented in Section 7;
- Recommendations are presented in Section 8; and
- Document references are provided in Section 9.

Supporting information is provided in the attached tables, figures, and appendices of this Annual Report.

# 2. SUMMARY OF WORK PERFORMED

## 2.1 OU4

- Groundwater performance monitoring along the source area transect was conducted by Terra Nova in April, July, and October 2025.
- Monitoring well integrity inspections were conducted by Terra Nova during each groundwater performance monitoring event.

## 2.2 OU3

- Groundwater performance monitoring in the downgradient aquifer was conducted by Terra Nova in April and October 2025.
- Surface water monitoring was conducted by Terra Nova in October 2025.
- Monitoring well integrity inspections were conducted by Terra Nova during each groundwater performance monitoring event.

## 2.3 RWE I

- KAI performed Site maintenance activities to repair damage to the western perimeter fence and clear overgrown vegetation, noted in the October 2024 Site inspection, on March 25, 2025. Geosyntec subsequently conducted a Site inspection to note that the corrective measures were adequately performed. The Site was reported in good condition and no items were noted that required further attention.

# 3. GROUNDWATER AND SURFACE WATER PERFORMANCE MONITORING

## 3.1 Monitoring Program Description

Water quality has been monitored at the Site since the late 1980s. Currently, groundwater and surface water quality are monitored in accordance with the revised Monitored Natural Attenuation (MNA) Plan (Geosyntec, 2013a), OM&M Plan (Geosyntec, 2014a,), and O&M QAPP (Geosyntec, 2013b). Accordingly, samples are collected from a subset of monitoring wells that form two (2) mass discharge transects downgradient of the former source areas, and two (2) surface water sampling locations in the nearby Delaware River. The locations of the source area (OU4) and downgradient (OU3) transects, as well as the two surface water sampling locations, are shown on **Figure 3-1**. The wells and surface water locations sampled in 2025 are summarized in **Table 3-1**.

The objectives of the monitoring programs are to:

- Assess if attainment of the OU4 Performance Standard (90% reduction in OU4 baseline total VOC mass discharge) has been maintained since suspending active treatment;
- Evaluate whether changes to in-situ source area treatment operations are warranted (e.g., restarting active treatment, beginning the stabilization period, or conducting in-situ chemical oxidation);
- Monitor wells downgradient of the source area to evaluate plume stability through time;
- Evaluate downgradient groundwater quality and progress toward attainment of OU3 Cleanup Goals;
- Monitor groundwater flow patterns and detect potential changes in flow paths; and
- Monitor surface water locations to evaluate potential impacts to receptors.

OU3 and OU4 groundwater and surface water performance monitoring activities conducted in 2025 and associated results are presented and discussed below.

## 3.2 Groundwater Monitoring

### 3.2.1 Monitoring Activities

Groundwater samples were collected by Terra Nova Technical Corp. of Allentown, New Jersey (Terra Nova), on April 20-22 (April or Spring event), July 30 (July or Summer event), and October 22-23 (October or Fall event) 2025. Terra Nova's field reports for each sample event are included in **Appendix A.1**.

Groundwater samples from 18 monitoring wells were collected during the April 2025 event, including eight (8) monitoring wells (MW-10, MW-11, EX-1, MW-1A/B/C, and MW-20A/B) that form a transect downgradient of the former source-areas and 10 downgradient aquifer (OU3) monitoring wells (MW-19, MW-18A/B/C, MW-6A/B, MW-21, MW-7A/M, and MW-22). Monitoring MW-7B was dry at the time of the April monitoring event and could not be sampled. Monitoring well locations are shown on **Figure 3-1.**

During the July 2025 event, groundwater samples were collected from four (4) of the eight (8) monitoring wells (MW-10, EX-1, and MW-1B/C) that form the transect downgradient of the former source-areas.

During the October 2025 event, groundwater samples were collected from six (6) of the eight (8) monitoring wells (MW-10, EX-1, MW-1B/C, and MW-20A/B) that form the transect downgradient of the former source-areas. Additionally, eight (8) of the 11 OU3 monitoring wells (MW-19, MW-18B/C, MW-6A/B, MW-21, MW-7M, MW-22) and two (2) surface water locations (SW-DRU and SW-12) were also sampled.

Monitoring wells were purged and sampled using dedicated bladder pumps in accordance with the low flow/low stress sampling procedures presented in the O&M QAPP (Geosyntec, 2013b). Prior to commencing groundwater sampling, synoptic water levels were measured with an electronic water level indicator to the nearest 0.01 foot. Water level measurements were performed on 20 April, 30 July, and 22 October 2025 during the April, July, and October events, respectively. Each monitoring well was purged until the field parameters including pH, temperature, specific conductance, ORP, DO, and turbidity met stabilization criteria. Field parameters were monitored using YSI model 556 and LaMotte 2020 field meters, calibrated by Terra Nova for all field parameters on a daily basis. Calibration results, available for review upon request, were recorded in Terra Nova's field books. Field parameter measurements can be found in Terra Nova's Groundwater Sampling Reports included in **Appendix A.1**. Following field parameter stabilization, groundwater samples were collected by filling laboratory-provided, pre-preserved sample containers directly from the pump discharge tubing.

The 2025 laboratory analytical parameters varied for each event and well and are summarized in **Table 3-1**. Samples were analyzed for TCL VOCs and SVOCs, total metals (arsenic, iron, and manganese), TPH-GRO, TPH-DRO, and for electron donors/acceptors (alkalinity, ammonia, nitrate-nitrite, sulfate, and total organic carbon [TOC]). Samples were placed immediately on ice and sent under executed chain of custody to Eurofins in Buffalo, New York. All samples were analyzed by Eurofins of Buffalo, New York. Sample analytical methods, preservatives, and technical hold times are provided in **Table 3-2**.

In addition to groundwater sampling, the following activities were performed:

- Monitoring well integrity inspections were conducted during each monitoring event. The inspection checklists can be found in Terra Nova's Reports included in **Appendix A.1**. In general, the monitoring wells were in good condition.

- Groundwater level measurements were performed at all Site monitoring wells during the April, July, and October 2025 monitoring events. Water levels and corresponding elevations are summarized in **Table 3-3**. Groundwater table elevation maps for each of the monitoring events are provided as **Figures 3-2, 3-3, and 3-4**. The maps show that during the 2025 monitoring events groundwater generally flowed from beneath the landfill to the south-southwest toward the Delaware River with a horizontal hydraulic gradient of approximately 0.0004 feet per foot (ft/ft) between MW-16 and MW-6B during the April 2025 monitoring event, 0.0001 ft/ft in the July 2025 monitoring event, and 0.0004 ft/ft in the October 2025 monitoring event. A summary of available historical water level data is provided in **Appendix A.2**.

- The presence and thickness of light non-aqueous phase liquids (LNAPL) and dense non-aqueous phase liquids (DNAPL) was assessed in wells (MW-13, S-2, and MW-16) that have historically had detectable free product. The results show that during the 2025 events LNAPL and DNAPL were not detected at any of the assessed monitoring wells. Historical LNAPL thickness measurements completed since 2005 are provided in **Appendix A.3**.

### 3.2.2 Data Quality Evaluation

Upon receipt of the laboratory reports, usability of the laboratory analytical data generated during the long-term monitoring program (i.e., groundwater and surface water sample results) was evaluated using several methods as described below.

Quality assurance/quality control (QA/QC) samples were collected during each sampling event and included: (i) field duplicate samples; (ii) trip blanks; and (iii) matrix spike and matrix spike duplicate (MS/MSD) sets. Trip blanks were used to monitor for potential VOC contamination while the samples were at the Site and in transit. Field duplicates were collected to assess the precision of the field sampling techniques. Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples were collected to measure the analytical methods accuracy and provide an indication of possible matrix analytical interference.

Following receipt of the analytical reports, Geosyntec conducted a data quality evaluation, which included: (i) an evaluation of the analytical data for the trip blank, field duplicate, MS/MSD samples, and laboratory quality control data; and (ii) a review of constituent detection limits, analytical methods, hold-times, and temperature requirements to qualify the data, when appropriate.

A Geosyntec representative evaluated the data quality for each monitoring event. Findings of the data quality evaluation are summarized below.

*April 2025 Event*

The following items requiring qualification of the data from one (1) or more samples were identified in the April 2025 groundwater data set:

- Manganese was detected in the method blank (MB) at estimated concentrations greater than the method detection limit (MDL) and less than the reporting limit (RL). Therefore, the estimated concentration of manganese in MW-7A was U qualified as not detected above the RL.

- Iron was detected in the MB at estimated concentrations greater than the MDL and less than the RL. Therefore, the estimated concentration of iron in MW-6A, MW-7A, and MW-7M were U qualified as not detected above the RL. Concentrations of iron greater than the RL and less than ten times the MB concentration in FDUP-01-GW, MW-18A, and MW-1A were J+ qualified as estimated with a high bias.

- The recoveries of benzyl alcohol in the matrix spike (MS) using sample MW-1C was low and outside of laboratory specified acceptance criteria. Therefore, the non-detect benzyl alcohol result for sample MW-1C was UJ qualified as estimated less than the MDL.

- 1,2,4-Trichlorobenzene was detected in the MB at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated concentrations in MW-18C, MW-1C, MW-6B and MW-7M were U qualified as non-detect. MW-18B, MW-19, MW-1B, MW-21, and MW-6A concentrations were greater than the RL and were J+ qualified as estimated with a high bias.

- The 1,2,4-Trichlorobenzene relative percent difference (RPD) for field duplicate pair FDUP-02-GW/MW-22 was greater than 50%. Therefore, these concentrations in this field duplicate pair were J qualified as estimated.

- The continuing calibration verification (CCV) recovered outside acceptance criteria, low-biased, for 3-Nitroaniline, Carbazole, and N-Nitrosodi-n-propylamine. Therefore the non-detect results of 2,2'-oxybis(1-chloropropane), 3-Nitroaniline, Carbazole, and N-Nitrosodi-n-propylamine in FDUP-01-GW, MW-10, MW-11, MW-18A, MW-18B, MW-18C, MW-19, MW-1A, MW-1B, MW-1C, MW-21, and MW-6A were UJ qualified as estimated below the RL based on professional and technical judgement. The CCV recovered outside acceptance criteria, low-biased, for 3-Nitroaniline and Carbazole. Therefore, the non-detect results of 2,2'-oxybis(1-chloropropane), 3-Nitroaniline, and Carbazole in MW-20A, MW-20B, MW-22, FDUP-02-GW, and EX-1 were UJ qualified as estimated below the RL based on professional and technical judgement.

- The CCV recovered outside acceptance criteria, low-biased, 2-Nitroaniline, 3-Nitroaniline, Bis(2-chloroethyl)ether, N-Nitrosodi-N-propylamine, and Phenol. A RL

standard was analyzed, and the target analytes were detected. Since MW-7M was non-detect for the analytes, the data was reported. Therefore, the non-detect results in MW-7M were UJ qualified as estimated below the RL based on professional and technical judgement.

- The MS recovery of alkalinity in the matrix spike/matrix spike duplicate (MS/MSD) pair using sample MW-1C was high and outside of laboratory specified acceptance criteria. Additionally, the RPD for the MS/MSD pair was also outside of laboratory specified acceptance criteria. Therefore, the alkalinity concentration in sample MW-1C was J qualified as estimated.

- The ammonia recoveries for the MS/MSD pair using sample MW-20A were high and outside of laboratory specified acceptance criteria. Therefore, the ammonia concentration in Sample MW-20A was J+ qualified as estimated with high bias.

- Ammonia was not detected in FDUP-01-GW and was detected in MW-1A, resulting in a noncalculable RPD. Therefore, based on professional and technical judgement, the ammonia concentration for MW-1A was J qualified estimated and the non-detect ammonia result for FDUP-01-GW was UJ qualified as estimated less than the MDL.

- The MS recovery of nitrate-nitrite using samples MW-20B and MW-1B was low and outside of laboratory specified acceptance criteria. Therefore, result was J qualified as estimated.

- The nitrate-nitrite recoveries in the MS/MSD pair using sample MW-11 were low and outside of laboratory specified acceptance criteria. Therefore, the nitrate-nitrite concentration in sample MW-11 was J qualified as estimated.

- The nitrate-nitrite recoveries in the MS/MSD using sample MW-1C was low and outside of laboratory specified acceptance criteria. Therefore, the result was J qualified as estimated.

*July 2025 Event*

The following items requiring qualification of the data from one (1) or more samples were identified in the July 2025 groundwater data set:

- The CCV associated with samples FDUP-01-GW, MW-10, MW-1B, MW-1C, and EX-1 recovered above the upper control limit for Vinyl chloride and Chloromethane. Therefore, the non-detect results for Vinyl chloride and Chloromethane in those samples were UJ qualified as estimated below the MDL and the detected concentrations were J qualified as estimated.

- The MS recovery of nitrate-nitrite using sample EX-1 was low and outside of laboratory specified acceptance criteria. Therefore, the result was J qualified as estimated.

- The nitrate-nitrite recoveries in the MS/MSD using sample MW-1C were low and outside of laboratory specified acceptance criteria. Therefore, the nitrate-nitrite concentration in sample MW-1C was J qualified as estimated.

*October 2025 Event*

The following items requiring qualification of the data from one (1) or more samples were identified in the October 2025 groundwater data set:

- The MS recovery of gasoline (unleaded) in MW-1C was low and outside of laboratory specified acceptance criteria. Therefore, the non-detect result of TPH-GRO in MW-1C was UJ qualified as estimated below the RL.

- The CCV associated with sample EX-1 recovered above the upper control limit for Chloromethane. Therefore, the non-detect result for the affected analyte in EX-1 was UJ qualified as estimated below the MDL.

- Chloroform was detected at an estimated concentration greater than the MDL and less than the RL in TRIP BLANK 2. Therefore, the estimated concentration of chloroform in the associated sample at MW-6A was U qualified as not detected at the RL.

- The MS recovery of ammonia using sample MW-6A was high and outside of laboratory specified acceptance criteria. Therefore, the ammonia concentration in sample MW-6A was J+ qualified as estimated with high bias.

- The recoveries in the MS/MSD pair using sample MW-22 were low and outside laboratory specified-acceptance criteria. Therefore, the non-detect result of nitrate-nitrite in sample MW-22 was UJ qualified as estimated below the RL.

Samples affected by the items noted above were qualified in accordance with the QAPP (Geosyntec, 2013). Unless otherwise noted, samples were analyzed within their technical holding times and other precision and accuracy criteria were met. No other data quality concerns were identified in the data. Based on the data quality assessment, the analytical data for groundwater samples collected under the performance monitoring program were accepted (including estimated data) for their intended use.

### 3.2.3 Groundwater Quality Results and Discussion

Comprehensive tables containing the 2025 groundwater monitoring results for OU4 and OU3 are presented in **Tables 3-4 through 3-9**. Tables summarizing detections since 2008 for the constituents and monitoring points included in the current environmental monitoring program are contained in tabular format in **Appendix A.4**. Copies of the laboratory reports and accompanying chain of custodies documentation are provided for reference in **Appendix A.5**. Groundwater data for select parameters are shown as time-concentration plots (Figures 1 through 44) in **Appendix B**. Laboratory analytical data and water level measurements collected in 2025 are provided in USEPA Region 2 electronic data deliverable (EDD) format (USEPA, 2014) in **Appendix A.6**. As required for EDD submittal, the EDD files will also be emailed to USEPA Region 2 at Region2_EQUISedd@epa.gov. A discussion of the groundwater monitoring results is presented below.

#### *3.2.3.1 Source Area (OU4) Groundwater*

*Volatile Organic Compounds*

Source Area VOC groundwater monitoring results in 2025 are summarized in **Table 3-4** and Figure 1 in **Appendix B**. Those results indicate that chlorinated aliphatic hydrocarbons, chlorinated aromatic hydrocarbons, and BTEX were detected in 2025. Consistent with recent historical results, the highest VOC concentrations in 2025 along the source area transect were detected at EX-1 (screened in the upper sand and gravel unit downgradient of the former source areas) during the July event. Although EX-1 had the highest total VOC concentrations in 2025 and has rebounded since treatment shut down, the concentrations were generally much lower than those historically measured at that location prior to treatment system operation and have remained lower since OU4 operations ceased.

Figure 6 in **Appendix B** and **Table 3-4** show that during 2025, chlorinated aromatic hydrocarbons were the predominant fraction of total VOCs, followed by chlorinated aliphatic hydrocarbons and BTEX in the source area. Historically, particularly at monitoring locations nearest the source areas (i.e., MW-1B and EX-1), BTEX, rather than chlorinated compounds, tended to be the predominant group of compounds detected prior to source area treatment. The proportionally greater decrease of BTEX compounds in the contaminant mixture may be attributable to AS operation from 2014 through 2017. BTEX compounds generally degrade aerobically more readily than the chlorinated compounds and AS operation introduced oxygen into source area groundwater. As shown in **Appendix D**, since OU4 active treatment shut down in 2019, concentrations of 1,1-dichloroethane, benzene, vinyl chloride and chlorinated aromatics at EX-1 have trended slightly higher when compared to the 2017 and 2018 results that were collected toward the end and immediately after active OU4 treatment was suspended. However, when combined with the RWE 1 remedy components and compared to overall pre-remedial concentrations, these trends are insignificant.

Other monitoring wells in the source area transect with detectable VOC concentrations included MW-1B/C, MW-10, and MW-20A/B. MW-1B and MW-1C, total chlorinated aromatics have

increased since 2019 and in 2025 represented the largest VOC fraction in those wells which is similar to the adjacent EX-1. Total VOC concentrations in MW-10, MW-1B/C, and MW-20B remain variable between events, but are generally lower than concentrations detected prior to treatment. Total VOC concentrations in MW-20A have steadily declined year-on-year following treatment. No VOCs were detected at deep source area wells MW-1A and MW-11 in the source area. Total VOC results are consistent with trends detected in recent years.

Overall, total VOC concentrations detected along the source area transect in 2025 were lower than those historically detected at the Site prior to OU4 treatment system operation, and much lower than pre-RWE 1 concentrations, with apparent long-term downward trends that have stabilized.

*Semi-Volatile Organic Compounds*

April 2025 SVOC sample results for source area transect monitoring wells are summarized in **Table 3-5**. Those results indicate that detected SVOCs included chlorinated benzenes and 1,4-dioxane. The highest SVOC concentrations detected were chlorinated aromatic compounds (1,2,4-trichlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene) and 1,4-dioxane. Compared to 2024, total SVOC concentrations have decreased at EX-1, MW-10, MW-1C and MW-20A, but have increased in MW-1B and MW-20B. SVOCs were not detected at deep source area wells MW-1A and MW-11. As shown on the tables in **Appendix A.4**, SVOC concentrations detected along the source area transect have decreased compared to historically detected concentrations at the Site prior to treatment system operation and in 2025 were generally consistent with recent results.

*Unfiltered Metals*

As shown in **Table 3-6**, arsenic, iron, and manganese were detected at higher concentrations than downgradient wells in most of the source area transect monitoring wells during the 2025 monitoring events. As discussed in the RI Report (Golder, 1994a) and in the prior Annual O&M Reports, those metals are probably naturally occurring and released from the sediments below the groundwater table by reductive dissolution in the zone of low redox created by MSW landfill leachate, methane gas, and/or the residual NAPL.

Iron, manganese, and arsenic concentrations were greatest at EX-1, MW-1B/C, and MW-10. Iron and arsenic concentrations previously tended to be slightly lower than recent results and form a U-shaped time-series graph with the lower concentrations during air sparging operations (see Figures 23 and 31 in **Appendix B**). Arsenic, iron, and manganese concentrations are lower in deep source area wells MW-11 and MW-20A and are not detected in some cases.

*Total Petroleum Hydrocarbons*

TPH results from the 2025 monitoring events are summarized in **Table 3-6.** Those results indicate that TPH-GRO was detected at EX-1 (April), MW-10 (April), MW-1B (April and October), and

MW-1C (October), with the highest concentration (0.60 mg/L) detected during the April 2025 event in MW-10. Concentrations of TPH-GRO detected during the 2025 sampling events were below the reporting limit and around the method detection limit, and are decreased compared to recent results in the source area. TPH-DRO was detected at EX-1 (April and October), MW-1B (April and October), and MW-1C (April). Similar to the TPH-GRO results, the concentrations of TPH-DRO have decreased compared to recent results in the source area.

*Electron Donor/Acceptor and Leachate Indicator Parameters*

Electron donor/acceptor and MSW leachate indicator parameters, including alkalinity, TOC, nitrate-nitrite, ammonia, and sulfate were monitored at source area transect wells in the 2025 monitoring events and sample results are summarized in **Table 3-6**. Those data are useful for monitoring improvements in groundwater quality resulting from construction of the low-permeability closure cover on the landfill and operation of the OU4 treatment system, and changes to the groundwater geochemical environment that promote natural attenuation of various constituents.

The results indicate that ammonia and TOC tended to be higher in the northwestern and central portions of the source area transect at monitoring wells MW-10, EX-1, MW-1B/C than near the southeastern edge at MW-20A/B. As shown on Figures 37 and 43 in **Appendix B**, ammonia and TOC concentrations in 2025 were generally consistent with recent results. In 2025, alkalinity concentrations at most locations continued to rebound from lower concentrations that were measured during and shortly after stopping active source area treatment (i.e., 2015 to 2018) to concentrations that were more consistent with those measured prior to air sparging (i.e., before 2015). It should be noted that ammonia and alkalinity were decreasing prior to OU4 system operation, possibly due to landfill cap construction and consequent reduced MSW leachate generation (see Figure 35 and 37 in **Appendix B**).

During air sparging operation, sulfide minerals that had formed in the anaerobic source zone likely began to oxidize and generate sulfate. Higher sulfate and nitrate-nitrite concentrations were detected at MW-10, EX-1, and MW-1B/C during air sparging between 2015 and 2018. The higher concentrations indicated that the AS/SVE system was likely promoting less anaerobic groundwater conditions along much of the transect compared to pre-treatment conditions. In 2025, sulfate concentrations continued to be detected at most source area transect monitoring wells (see Figures 41 in **Appendix B)**, but the concentrations were lower than measured during and immediately after active treatment and more similar to pretreatment concentrations. Sulfate at EX-1 and MW-1B/C have declined below or are consistent with concentration detected at MW-20A/B, which have remained relatively low prior, during, and following treatment. As shown in Figure 39 in **Appendix B,** nitrate-nitrite concentrations at all source area transect monitoring wells have decreased since the AS/SVE system was shut off in 2017. The lower sulfate and nitrate-nitrite concentrations indicate that more anaerobic groundwater conditions have begun to redevelop since the AS/SVE system was shut off.

*Field Geochemistry*

Field geochemical parameters that include DO, ORP, specific conductance, pH, and turbidity from the 2025 monitoring events are summarized in **Table 3-6**. The data indicates that groundwater along the source area transect is generally slightly acidic with reducing or slightly reducing ORP values. The reducing ORP and low DO readings indicated movement toward a more reducing geochemical environment when compared to data from when the AS/SVE system was operating. Specific conductance values were relatively low (<550 micro-Siemens per centimeter [µS/cm]).

#### *3.2.3.2 Downgradient Groundwater (OU3) Quality*

*Volatile Organic Compounds*

The 2025 VOC sample results for monitoring wells included in the downgradient (OU3) transect are summarized in **Table 3-7** and **Appendix B**. Decreasing trends are noted for total VOCs at MW-6A, MW-6B, MW-7B, MW-7M, MW-21, and MW-22. In MW-18B, total VOCs have had an increasing trend since 2021, but total VOC concentrations still remain lower than results detected prior to AS/SVE operation. The results show that chlorinated aliphatic and chlorinated aromatic hydrocarbons were detected in several downgradient groundwater wells (MW-19, MW-18B/C, MW-6A/B, MW-7M, MW-21, and MW-22) above OU3 cleanup goals. Benzene was detected above standards in only one well (MW-18B) during the October 2025 event. The suite of VOCs detected in downgradient groundwater was similar to that detected along the source area transect. Similar to recent results, the highest concentrations in the downgradient aquifer area tended to be detected in monitoring wells screened at an intermediate depth interval in the silty sand unit (i.e., MW-6A, MW-18B, and MW-21). In general, total VOCs concentrations were less than 50 µg/L (except at MW-6A, MW-18B, and MW-21) and continue to be relatively stable or are trending downward in downgradient groundwater (see Figures 2 and 3 in **Appendix B**), particularly at MW-6A, MW-21, and MW-7B/M (see Figures 16, 18, 20 and 21 in **Appendix B**). The dominant VOC class is predominantly chlorinated aromatics among the downgradient wells with the exception of MW-6A, as shown in Figures 16 to 22 in **Appendix B**. Total VOC concentrations at downgradient wells are at least 31 percent lower than that detected at EX-1.

No VOCs were detected in deep downgradient monitoring wells MW-18A and MW-7A, which were sampled during the April 2025 event. A sample was unable to be collected from MW-7B during the April 2025 event due to the monitoring well being dry at the time of sampling.

*Semi-Volatile Organic Compounds*

SVOC analytical results for the samples collected from the downgradient area during the April 2025 monitoring event are summarized in **Table 3-8**. One or more chlorinated aromatic compounds exceeded OU3 cleanup goals in MW-6A, MW-18B, MW-19, MW-21 and MW-22. Total SVOCs were less than 50 µg/L. Compared to OU4, the suite of detected SVOCs are similar, with the exception of MW-21 which has concentrations of 4-Chloro-3-Methylphenol, Diethyl

phthalate, and Di-n-butyl phthalate above the MDL. Similar to the VOC results, the highest concentrations in the downgradient aquifer area tended to be detected in monitoring wells screened at an intermediate depth interval (i.e., MW-6A, MW-18B, MW-19, and MW-21).

*Unfiltered Metals*

Metals were monitored during the April and October 2025 events. Those results, presented in **Table 3-9** and Figures 24, 25, 28, 29, 32, and 33 in **Appendix B**, indicate that arsenic, iron, and manganese were detected in most monitoring wells sampled. Arsenic exceeded the OU3 cleanup goal at MW-18B, MW-6B, and MW-22 in 2025, but concentrations are trending downward at MW-18B and MW-22. Iron and manganese concentrations were within the range historically measured in downgradient groundwater. Metals may be released from the naturally occurring sediments below the groundwater table in the zone of low redox created by MSW landfill leachate, methane gas, and/or the residual NAPL.

*Electron Donor/Acceptor and Leachate Indicator Parameters*

MSW leachate indicator parameters, including alkalinity, TOC, nitrate-nitrite, ammonia, and sulfate were monitored at the downgradient wells during the April and October 2025 events and are presented in **Table 3-9** and Figures 36, 38, 40, 42, and 44 in **Appendix B**. The results indicate that ammonia, generally considered a product of various MSW related microbial processes, was the only constituent detected above the established OU3 Cleanup Goals.

Ammonia exceeded OU3 cleanup goals at MW-21 during the April and October sampling events; ammonia concentrations in the other downgradient wells remained below the cleanup goal. Nitrate-nitrite and sulfate concentrations were not detected above the OU3 Cleanup Goal and were generally consistent with recent results. The very low nitrate-nitrite concentrations and presence of ammonia at several shallow and intermediate depth downgradient wells indicate that aerobic conditions do not prevail in these areas.

As shown on Figure 42 in **Appendix B**, sulfate concentrations trended upward beginning in 2016 at most downgradient wells during/following active air sparging operation. The subsequent decreasing trends began in 2019-2020 for some of these wells are now approximately consistent with pre-treatment concentrations. It is suspected that the increasing sulfate trends detected from 2016 to 2020 are related to the higher sulfate concentrations detected along the source area transect since active treatment was started in 2015 as shown in Figure 41 in **Appendix B**. Therefore, the stabilization or decrease of the sulfate results indicates that groundwater treated by AS/SVE operations has reached and migrated beyond several downgradient transect monitoring wells.

Over the last several years, alkalinity in the downgradient aquifer has trended downward at most locations and was generally detected within a similar range in both the source and downgradient areas.

*Field Geochemistry*

Field geochemical parameters that include DO, ORP, specific conductance, pH, and turbidity from the April and October 2025 monitoring events are summarized in **Table 3-9**. The data indicates that downgradient groundwater is slightly acidic. ORP was variable in the downgradient aquifer and ranged from oxidizing, as indicated by the relatively high DO concentrations and positive ORP values at MW-6B and MW-21 in October, to reducing, as exhibited by the low DO concentrations and negative ORP values detected at MW-18B. Specific conductance was relatively low (<500 uS/cm).

### 3.2.4 Mass Discharge

To evaluate changes in VOC mass discharge from the baseline values presented in the OM&M Plan, (Geosyntec, 2014a) total VOC data from the 2025 monitoring events (see **Tables 3-4 and 3-7)** were used to calculate mass discharge for each monitoring event for both the OU4 (source area) and OU3 (downgradient) transects. A summary of the calculated mass discharge results and comparison to baseline values are presented in **Tables 3-10 and 3-11** for OU4 and OU3 transects, respectively. Geologic cross-sections through each transect and a detailed breakdown of the calculations for each monitoring event are presented in **Appendix C**. Mass discharge calculation procedures used to generate the values are presented in the OM&M Plan (Geosyntec, 2014a). The mass discharge calculated in 2025 used the historical average gradient at the Site of 0.003.[2]

As shown in **Table 3-10**, source area (OU4) transect mass discharge in April, July, and October 2025 were 96%, 88% and 94% lower than baseline, respectively. A time-series plot of OU4 mass discharge from each monitoring event since April 2014 and comparison against the OU4 baseline discharge and Performance Standard is provided as **Figure 3-5**. Those results show mass discharge from the source area transect was below the Performance Standard for the April and October events and exceeded the Performance Standard during the July event in 2025. Mass discharge rates in 2025 decreased compared to 2024 and are comparable to mass discharge rates calculated since 2019. OU4 mass discharge has been less than or equal to the Performance Standard for 18 of the last 25 monitoring events since the AS/SVE system shutdown in October 2017.

Mass discharge results from the downgradient (OU3) transect based on the April and October 2025 monitoring results are summarized in **Table 3-11.** A time-series plot of OU3 mass discharge from each monitoring event since April 2014 and comparison against the OU3 baseline discharge is provided as **Figure 3-6**. Those results show that OU3 transect mass discharge in April and October 2024 were 82% and 81% lower than baseline, respectively. Those results are consistent with OU3

[2] In 2024, the mass discharge was calculated using event-specific groundwater hydraulic gradients, which was considered more representative of Site conditions than the historical average gradient. Based on feedback, Geosyntec resumed using the historical Site average gradient in 2025 to calculate mass discharge at the Site.

mass discharge results since October 2016 which have been less than 110 micrograms per second (µg/sec) and lower than results before active source area treatment.

To evaluate potential changes in the baseline relationship between the OU4 and OU3 mass discharge transects and corresponding aquifer attenuation rate, the mass discharge values for each monitoring event were compared as shown in **Table 3-12**. Those data indicate that the percent difference in the mass discharge, and the associated attenuation rate, between the two transects in April 2025 was -68% and 109 µg/sec, respectively. The percent difference and attenuation rate between the two transects in October 2025 was -80% and 221 µg/sec, respectively. The negative percent value for mass discharge and associated positive attenuation rate indicate that mass discharge was less through the downgradient transect than the source area transect. Therefore, the results continue to indicate that a large portion of VOC mass discharging from the OU4 transect was attenuated prior to reaching the OU3 transect.

### 3.2.5 OU4 Rebound Assessment

#### *3.2.5.1 OU4 20% Rebound Criteria for Individual VOCs*

Select VOC concentrations in the source area were further evaluated to assess if concentrations have rebounded more than 20% since AS/SVE shutdown in October 2017. The specific VOCs and locations discussed below were selected in the Remedial Action Report (Geosyntec, 2020a). All VOC concentrations were reviewed in downgradient monitoring wells prior to OU4 treatment to identify those constituents that had detections greater than cleanup goals. Those select constituents were identified for use in the 20% rebound assessment. Locations were selected by reviewing only shallow and intermediate zone source area monitoring wells (MW-1B, MW-1C, MW-10, MW-20A, MW-20B, and EX-1). The list of locations was further narrowed down to just EX-1 and MW-1B, because these locations comprise approximately 95% of the baseline mass discharge. A 20% rebound comparison level for each well/constituent pair was calculated from the average concentration prior to treatment system shutdown (2017 data) plus 20% of the change in concentration from before treatment (2004 – 2013 data) to the average concentration prior to treatment system shutdown (2017 data).

Time-series concentration plots for the above well/constituent pairs are provided in **Appendix D.** Those plots also have the 20% rebound comparison level to aid the rebound assessment. Due to the high variability of the data within the reporting period, it is often difficult to distinguish clear increasing or decreasing trends in the post-treatment timeframe. In those cases, the term "no discernible trend" is used to indicate that a clear increasing or decreasing trend could not be made based on visual evaluation of the data. The following observations can be made:

- Trichloroethene: There has been only one detection above the 20% rebound comparison level at EX-1 among the 24 monitoring events following AS/SVE system shutdown and no discernible trend. There has been only one detection above the 20% rebound

comparison level at MW-1B following AS/SVE system shutdown and no discernible trend.

- Cis-1,2-Dichloroethene: There have been only three detections at EX-1 above the 20% rebound comparison level following AS/SVE system shutdown and no discernible trend. There have been no detections above the 20% rebound comparison level at MW-1B following AS/SVE system shutdown.

- Vinyl Chloride: There have been only five detections above the 20% rebound comparison level at EX-1 among the 24 monitoring events following AS/SVE system shutdown, with an apparent increasing trend during that time. At MW-1B, there have been no detections above the 20% rebound comparison level following AS/SVE system shutdown.

- 1,2-Dichloroethane: There have been no detections above the 20% rebound comparison level at EX-1 among the 24 monitoring events following AS/SVE system shutdown and no discernible trend. There have been only three detections above the 20% rebound comparison level at MW-1B following AS/SVE system shutdown and no discernible trend.

- 1,1-Dichloroethane: There have been eight detections above the 20% rebound comparison level at EX-1 following AS/SVE system shutdown, with no discernible trend. There have been no detections above the comparison level at MW-1B following AS/SVE system shutdown.

- Benzene: There have been only eight detections at EX-1 above the 20% rebound comparison level following AS/SVE system shutdown and no discernible trend. There have been only five detections at MW-1B above the 20% rebound comparison level following AS/SVE system shutdown.

- 1,2-Dichlorobenzene: 19 out of the last 24 detections have been above the 20% rebound comparison level at EX-1 following AS/SVE system shutdown, beginning in spring 2019. There is an apparent increasing trend during that time that is approaching pre-treatment concentrations. There have been 13 detections above the 20% rebound comparison level at MW-1B among the 24 monitoring events following AS/SVE system shutdown with an apparent increasing trend.

- 1,3-Dichlorobenzene: There have been consecutive detections above the 20% rebound comparison level at EX-1 in all 24 of the monitoring events following AS/SVE system shutdown. There is an apparent increasing trend during that time. There have been 16 detections above the 20% rebound threshold at MW-1B among the 24 monitoring events following AS/SVE system shutdown, with an apparent increasing trend during that time.

- 1,4-Dichlorobenzene: There have been 21 consecutive detections above the 20% rebound comparison level at EX-1 since 2019. There is an apparent increasing trend since AS/SVE system shutdown. There have been 13 detections above the comparison level at MW-1B following AS/SVE system shutdown.

- Chlorobenzene: There have been 20 consecutive detections above the 20% rebound comparison level at EX-1 beginning in summer 2019 with an apparent increasing trend. There have been 16 detections above the 20% rebound comparison level at MW-1B among the 24 monitoring events following AS/SVE system shutdown, with an apparent increasing trend.

#### *3.2.5.2 OU4 Mass Discharge Consecutive Rebounds*

As indicated in the section above, some individual VOCs rebounded by more than 20 percent. Therefore, per the protocol outlined in the USEPA-approved 2014 RD, total VOC mass discharge was evaluated to determine whether the Performance Standard was exceeded for two consecutive monitoring events following AS/SVE system shutdown. A time-series plot of OU4 mass discharge from each monitoring event since April 2014 and comparison against the Performance Standard is provided as **Figure 3-5**. Those results show that mass discharge from the source area transect did not exceed the Performance Standard in 2025 during two consecutive monitoring events and the OU4 performance standard has been achieved and sustained.

### 3.2.6 Natural Attenuation Evaluation

As outlined in the 2010 ROD/ROD Amendment, an analysis of historic Site data collected as part of long-term groundwater monitoring since 1995 showed evidence indicating that anaerobic natural attenuation processes; including anaerobic mineralization of aromatic hydrocarbons and TPH as well as reductive dechlorination of chlorinated ethanes, ethenes, and chlorinated aromatics, have occurred in downgradient groundwater.

Groundwater data collected in 2025 continue to support natural attenuation of several Site constituents. Specifically, evidence of anaerobic biodegradation processes in groundwater has been documented in 2025, including:

- Detection of chlorinated ethene reductive dechlorination daughter products vinyl chloride and cis-1,2-dichloroethene from parent compounds tetrachloroethene and trichloroethene;

- Detection of chlorinated ethane reductive dechlorination daughter product 1,1-dichloroethane from parent compound 1,1,1-trichloroethane;

- Detection of chlorobenzene and dichlorobenzene isomers from reductive dechlorination of the trichlorobenzene and dichlorobenzene isomer parent compounds; and

- Larger fractions of daughter products in downgradient groundwater compared to that historically detected near the source areas.

## 3.3 Surface Water

### 3.3.1 Background

Surface water samples were collected from two different points in the nearby Delaware River during the October 2025 event: (i) upstream of the Site (DRU) and (ii) in a downstream embayment area of the river (SW-12). Those locations are shown on **Figure 3-1**. There is limited, if any, surface water flow in the embayment during the summer and fall. Therefore, VOCs have been historically detected at higher concentrations during low flow conditions in the embayment compared to the main channel of the river.

### 3.3.2 Activities

Terra Nova collected surface water samples from the two locations on October 23, 2025 in conjunction with the October groundwater monitoring event. During sampling, the sample bottle was held with the opening pointing upriver and the sampler standing downstream of the bottle to reduce the possibility of disturbed sediment entering the sample bottle. The samples were analyzed by Eurofins for constituents that included VOCs, total iron, arsenic, manganese, and total suspended solids (TSS).

### 3.3.3 Data Quality Evaluation

The 2025 October surface water data quality was evaluated by Geosyntec representative as described in Section 3.2.2. The following items requiring qualification of the data from one (1) sample was identified in the October 2025 surface water data set:

- The CCV associated with samples SW-DRU, SW-12, FDUP-01-SW recovered above the upper control limit for Chlorodibromomethane. Therefore, the non-detect results for the affected analytes in those samples were UJ qualified as estimated below the MDL.

Unless otherwise noted, samples were analyzed within their technical holding times and other precision and accuracy criteria were met. Based on the data quality assessment, the analytical data for surface water samples collected under the performance monitoring program were accepted (including estimated data) for their intended use.

### 3.3.4 Results

A comprehensive table containing the 2025 surface water monitoring results is presented in **Table 3-13.** Tables summarizing detected constituents at SW-12 and SW-DRU since 2004 are provided in tabular format in **Appendix A.4**. Surface water data for select parameters are shown as time-concentration plots in **Appendix B**.

*Volatile Organic Compounds*

VOCs were not detected in surface water samples collected at SW-DRU and SW-12 during the 2025 October monitoring event.

*Unfiltered Metals and General Chemistry*

Iron and manganese were detected in surface water samples collected at both SW-DRU and SW-12 during the 2025 October monitoring event. Iron and manganese concentrations in 2025 at both surface water sampling locations were similar to data reported over the last several years. Consistent with recent results, arsenic and TSS were not detected at either surface water sampling location in 2025.

# 4. RWE I (OU2) COMPONENTS

The annual inspection of the RWE I engineered remedial components was conducted on March 26, 2025 by Geosyntec. The inspection was limited to a visual evaluation of the above ground remedial components and focused upon those systems identified in the Site OM&M Plan (Geosyntec, 2014a). The annual inspection form is provided in **Appendix E** attached to this Annual Report. Corrective Site maintenance measures were implemented concurrently with the 2025 Annual Site Inspection to resolve issues noted during the 2024 Annual Site Inspection. Site maintenance activities were conducted by KAI and included removing minor overgrown vegetation around the gas vents and well fields and repairing the western perimeter fence that was damaged by a fallen tree. Additionally, a tarp covering an empty drum and other miscellaneous supplies for the AS/SVE system was replaced. The Site was reported in good condition and no items were noted that required further attention. A photolog is provided in **Appendix E** that shows items and areas noted during the annual inspection.

Geosyntec and KAI remobilized to the Site on April 23, 2025 and removed the burnt VGAC units that were staged adjacent to the remediation trailer and an empty drum from the Site for disposal.

## 4.1 Landfill Cover Closure System

Inspection of the landfill closure cover system addressed the overall condition of the cover, the presence of erosion gullies and/or animal burrows, areas greater than one square meter that are barren of vegetation, signs of potential settlement such as cracks or low-lying areas with internal drainage, the presence of woody vegetation, and the presence of vehicular damage such as tire ruts.

Overgrown vegetation observed on the landfill cover system during the October 2024 site inspection was removed in March 2025 and documented in the **Appendix E** photologs.

## 4.2 Surface Water Drainage System

Inspection of the surface water drainage system focused upon the general condition of the channels, signs of potential settlement and/or erosion, animal burrows, presence of debris or vegetation that might impede the flow of stormwater, presence of adequate riprap, and the integrity of the riser pipes that recharge stormwater to the subsurface.

The surface water drainage system contained vegetation but not enough to impede the flow of storm water. The overall condition of the surface water drainage system appeared to be in good condition.

## 4.3 Passive Gas Venting System

Inspection of the passive gas venting system focused upon visible damage or obstructions to the gas vent riser pipes, the protective screen at the end of the pipe, signs of gas exiting the vents under pressure, and the presence of odors.

The vent riser pipes appeared to be in good condition. No odors were noted in the immediate vicinity of the gas vent riser pipes. Overgrown vegetation observed around the vent riser pipes during the October 2024 site inspection was removed in March 2025 and documented in the **Appendix E** photolog.

## 4.4 Site Security System

Inspection of the Site security system focused upon the presence of breaches in the security fence and operation of the entrance gate through the fence.

The gate was closed and locked upon arrival at the Site. Damage to the perimeter security fence at the western edge of the site was observed where a tree had collapsed. The damaged security fence noted during the October 2024 site inspection was repaired in March 2025 and documented in **Appendix E**.

## 4.5 Additional Observations

No other additional observations were noted.

## 5. INSTITUTIONAL CONTROLS

On February 17, 2026, Geosyntec contacted the Code Enforcement/Building Department of the Town of Tusten to verify that the groundwater institutional controls for the areas downgradient from the landfill remain in force. Those controls include:

- Local Law #1 passed in 1996 restricting groundwater use in the vicinity of the Site to monitoring purposes only; and
- Local Law #4 passed in 1998 requiring drinking water connections for properties located downgradient from the Site and within the Narrowsburg Sewer and Water District.

Both of those Local Laws remain in force and are not superseded or nullified by subsequent laws. No contraventions of those laws were noted in 2025.

Regarding institutional controls for the landfill cap, an environmental protection easement and declaration of restrictive covenants for the Site was recorded in October 2016 in the Site property records with Sullivan County, New York. Restrictions on property include:

- No soil excavation, including landscaping and surficial regrading, without prior written approval by USEPA and Grantees;
- Groundwater supply wells shall not be installed or utilized; groundwater shall not be hydrologically altered in any way; and groundwater underlying the Site shall not be withdrawn for any purpose other than groundwater monitoring and/or treatment, without prior written approval by USEPA and Grantees;
- No use or activity shall be permitted at the Property, unless otherwise provided for in the Consent Decree and its accompanying Statement of Work, which may disturb the integrity of any of the response actions implemented at the Site, prior written approval by USEPA and Grantees; and
- No infringement to the restrictions was noted in 2025.

# 6. GREEN REMEDIATION

"Green Remediation" is the practice of considering environmental effects of the implementation of a remedy and incorporating options, where appropriate, to enhance the net environmental benefit of cleanup actions. The Green Remediation Plan (GRP) included in the OU4 Remedial Design (Geosyntec, 2012a) presented the strategies, metrics, and documentation to be used to demonstrate the sustainability of the Remedial Action during construction, operation and monitoring of the OU4 Source Area RA. The following sections present data to demonstrate satisfaction of the GRP objectives.

## 6.1 Use of 100% Renewable Sources of Energy

The Respondents have opted to purchase renewable energy certificates (RECs) equivalent to the electrical power usage at the Site in lieu of using 100% of electricity from renewable sources. The energy usage represented by the RECs purchased offset the environmental effects of energy usage at the Site. Note that RECs were purchased periodically whereas energy consumption was continuous. Therefore, the overall "balance" of energy use and RECs purchased was out of sync at a given point in time or for a given reporting period depending upon the timing of energy consumption and REC purchases. However, balance was achieved for the timeframe of active treatment system operation.

Based on estimates and meter readings by the electrical utility, the OU4 Source Area RA used 5,500 kilowatt-hours (kWh) of electricity between December 19, 2024 and December 23, 2025. The Group will purchase RECs equivalent to the electricity usage for that period. The service zip code is 12764. Since the AS/SVE system was shut off in October 2017, electricity usage has primarily been for heating the process equipment trailer.

## 6.2 Industrial Material Reuse or Recycling

During operation of the AS/SVE system, spent VGAC was transported off-Site for regeneration and reuse. The AS/SVE system was not in operation in 2025, and no VGAC was transported off-Site for regeneration and reuse.

# 7. LONG-TERM MONITORING

On behalf of the Group, Geosyntec prepared and submitted a letter to USEPA requesting a transition from the current performance monitoring program to the long-term monitoring program at the Site. The letter is provided in **Appendix F**. As discussed in Section 3, concentrations of VOCs continued to generally trend downward or remained stable in OU4 and OU3 (since discontinuation of active treatment in October 2017), the OU4 active treatment Performance Standards continue to be achieved, and monitored natural attenuation indicator parameters continue to be detected in the downgradient OU3 area. The recommended long-term monitoring program is summarized in Table 1 in **Appendix F** and reflects several revisions to the previously

approved OU3 and OU4 monitoring programs included in Attachment A of **Appendix F.** These revisions include the following:

- The completion of both OU3 and OU4 monitoring events concurrently, annually, in the Fall;
- The addition of monitoring wells MW-1C and MW-10 to the OU4 long-term monitoring program to continue to monitor the ongoing protectiveness of OU4 at these near-source wells; and
- The deletion of the surface monitoring from the long-term monitoring program.

Contingent on USEPA approval, an addendum to the Operation, Maintenance, and Monitoring Plan will be prepared to reflect the revised long-term monitoring program.

## 8. CONCLUSIONS

The following conclusions are made based on the 2025 monitoring results:

- VOC concentrations detected along the source area transect were generally lower than those historically detected at the Site prior to OU4 treatment system operation with apparent downward trends at most locations. Concentrations of chlorinated aromatic compounds have apparent increasing trends at EX-1 and MW-1B since treatment system shutdown in 2017 but are still detected at lower concentrations compared to concentrations detected prior to treatment with the exception of chlorinated aromatics. Nevertheless, they are much lower than pre-RWE 1 concentrations. BTEX and chlorinated aliphatic concentrations have decreased and remained lower.

- VOC concentrations appear relatively stable or are trending downward in downgradient groundwater (OU3), particularly at MW-6A/B, MW-21, and MW-7M, although stable or declining, concentrations of several VOCs remain above OU3 Cleanup Goals. Groundwater data continue to support natural attenuation of several Site constituents that include chlorinated ethenes, chlorinated ethanes, and chlorinated benzenes.

- Mass discharge rates near the source were below the OU4 Performance Standard in two of the three monitoring events in 2025. The mass discharge rates in 2025 were in compliance with the Performance Standard.

- The 2025 monitoring results at EX-1 and MW-1B indicated some individual VOC concentrations (chlorinated benzenes) rebounded more than 20% from their concentrations at the end of OU4 operations. However, the total VOC mass discharge has not exceeded the performance standard for two consecutive events, and concentrations have not rebounded in a similar manner at downgradient OU3 monitoring wells and appear to be within the natural attenuation capacity of the aquifer.

- Surface water monitoring results continue to indicate that surface water receptors are unlikely to be affected by diffuse groundwater seepage from the Site.

- Following Site maintenance activities that occurred in March 2025, the condition of the OU2 remedial components that include the landfill closure cap system, landfill cover closure system, passive gas venting system, site security system, and storm water management system appear to be in good condition.

- Institutional controls established for the Site remain in place and no infringements were noted.

## 9. RECOMMENDATIONS

The Group recommends the following activities be taken with regard to O&M and monitoring of the performance of the remedial actions for OU4, OU3, and RWE I:

- Transition to the revised long-term monitoring program and prepare an addendum to the Operation, Maintenance, and Monitoring Plan;
- Continue to monitor for concentration rebound in OU4 monitoring wells on an annual basis;
- Continue groundwater monitoring in OU3 annually in accordance with the revised long-term monitoring program; and
- Continue annual RWE I Site maintenance activities.

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# TABLES

**TABLE 3-1**
**GROUNDWATER AND SURFACE WATER SAMPLE POINTS AND ANALYTICAL PARAMETERS**

**Cortese Landfill Site**
**Narrowsburg, NY**

| Location ID | 2025 Sampling Event | Parameter | | | | | |
|---|---|---|---|---|---|---|---|
| | | VOCs [1] | SVOCs [2] | Metals [3] | Electron Donors/Acceptors [4] | TSS | TPH [5] |
| ***Operable Unit 4 - Source Area Monitoring Wells*** | | | | | | | |
| MW-1A | April | X | X | X | X | | X |
| MW-1B | April | X | X | X | X | | X |
| | July | X | | X | X | | |
| | October | X | | X | X | | X |
| MW-1C | April | X | X | X | X | | X |
| | July | X | | X | X | | |
| | October | X | | X | X | | X |
| MW-10 | April | X | X | X | X | | X |
| | July | X | | X | X | | |
| | October | X | | X | X | | X |
| MW-11 | April | X | X | X | X | | X |
| MW-20A | April | X | X | X | X | | |
| | October | X | | X | X | | |
| MW-20B | April | X | X | X | X | | |
| | October | X | | X | X | | |
| EX-1 | April | X | X | X | X | | X |
| | July | X | | X | X | | |
| | October | X | | X | X | | X |
| ***Operable Unit 3 - Downgradient Monitoring Wells*** | | | | | | | |
| MW-6A | April | X | X | X | X | | |
| | October | X | | X | X | | |
| MW-6B | April | X | X | X | X | | |
| | October | X | | X | X | | |
| MW-7A | April | X | X | X | X | | |
| MW-7B | April | X | X | X | X | | |
| MW-7M | April | X | X | X | X | | |
| | October | X | | X | X | | |
| MW-18A | April | X | X | X | X | | |
| MW-18B | April | X | X | X | X | | |
| | October | X | | X | X | | |
| MW-18C | April | X | X | X | X | | |
| | October | X | | X | X | | |
| MW-19 | April | X | X | X | X | | |
| | October | X | | X | X | | |
| MW-21 | April | X | X | X | X | | |
| | October | X | | X | X | | |
| MW-22 | April | X | X | X | X | | |
| | October | X | | X | X | | |
| ***Surface Water*** | | | | | | | |
| SW-DRU | October | X | | X | | X | |
| SW-12 | October | X | | X | | X | |

**Notes:**

Monitoring in performed as specified in the OU3 Monitored Natural Attenuation Plan (May 2013), Quality Assurance Project Plan (QAPP; May 2013), and OU4 Operation, Maintenance, and Monitoring Plan (July, 2014).

SVOCs - Semivolatile Organic Compounds listed in worksheet #15 of QAPP

TSS - Total Suspended Solids

VOCs - Volatile Organic Compounds listed in worksheet #15 of QAPP

TPH - Total Petroleum Hyrdocarbons

All samples were unfiltered

[1] Analysis of VOCs included dichlorobenzene isomers

[2] Analysis of SVOCs included benzoic acid and 1,4-dioxane

[3] Metals analyzed were arsenic, iron, and manganese

[4] Electron Donors/Acceptors analyzed were alkalinity, sulfate, nitrate+nitrite, ammonia, and total organic carbon

[5] Analysis of TPH included TPH-Gasoline Range Orgranics (C6-C10) and TPH-Diesel Range Organics (C10-C28)

**TABLE 3-2**
**ANALYTICAL METHODS, SAMPLE CONTAINERS, PRESERVATION, AND TECHNICAL HOLD TIMES FOR AQUEOUS SAMPLES**

**Cortese Landfill Site**
**Narrowsburg, NY**

| Parameter | Sample Matrix | Methodology | Container | | Preservation | Hold Time |
|---|---|---|---|---|---|---|
| | | | Size | Type | | |
| TCL VOCs | Groundwater, Surface Water | SW846 8260C | 3-40 ml | G | Cool to 4 $^{o}$C; HCl; pH < 2; no headspace | 14 days |
| TCL SVOCs | Groundwater | SW846 8270D | 2-1000 ml | Amber G | Cool to 4 $^{o}$C | 7 days E |
| Total Metals | Groundwater, Surface Water | SW846 6010C | 1-500 ml | P | Cool to 4 $^{o}$C; $HNO_3$; pH < 2 | 180 days |
| Ammonia | Groundwater | EPA 350.1 | 1-1000 ml | P or G | Cool to 4 $^{o}$C; $H_2SO_4$; pH < 2 | 28 days |
| Nitrate+Nitrite | Groundwater | EPA 353.2 | 1-250 ml | P or G | Cool to 4 $^{o}$C; $H_2SO_4$; pH < 2 | 28 days |
| Sulfate | Groundwater | ASTM D516-90, 02 | 1-125 ml | P or G | Cool to 4 $^{o}$C | 28 days |
| Alkalinity | Groundwater | EPA 310.2 | 1-250 ml | P or G | Cool to 4 $^{o}$C | 14 days |
| TPH-GRO | Groundwater | SW846 8015D | 3-40 ml | G | Cool to 4 $^{o}$C; HCl; pH < 2; no headspace | 14 days |
| TPH-DRO | Groundwater | SW846 8015D | 2-1000 ml | Amber G | Cool to 4 $^{o}$C; HCl; pH < 2 | 7 days E |
| Total Organic Carbon | Groundwater | SM20 5310D | 2-40 ml | G | Cool to 4 $^{o}$C; HCl; pH < 2 | 28 days |
| Total Suspended Solids | Surface Water | SM 18-20 2540D | 1-500 ml | P | Cool to 4 $^{o}$C | 7 days |
| Specific Conductance | Groundwater, Surface Water | Electrode | NA | P or G | None | Field Measurement |
| pH | Groundwater, Surface Water | Electrode | NA | P or G | None | Field Measurement |
| Turbidity | Groundwater, Surface Water | Electrode | NA | P or G | None | Field Measurement |
| Dissolved Oxygen | Groundwater, Surface Water | Electrode | NA | G | None | Field Measurement |
| Temperature | Groundwater, Surface Water | Thermistor | NA | G | None | Field Measurement |

**Notes:**
G - Glass
ml - milliliters
P - Polyethylene
TPH - Total Petroleum Hydrocarbons
DRO - Diesel Range Organics (C10-C28)
SVOCs - Semivolatile Organic Compounds
TCL - Target Compound List (defined in USEPA CLP SOW OLM03.2)
VOCs - Volatile Organic Compounds
GRO - Gasoline Range Organics (C6-C10)
E - Hold time for SVOCs and TPH-DRO/ORO is 7 days for start of extraction and 40 days after extraction for analysis
ASTM - American Society for Testing and Materials
SM - Standard Methods developed by Standard Methods Committee comprised of members from the American Public Health Association, Amerian Water Works Association, and Water Environment Federation

Metals analyzed were arsenic, iron, and manganese

EPA methodology taken from Chemical Methods for the Analysis of Water and Waste, 1979, revised 1983 and subsequent updates

SW846 is Test Methods for Evaluating Solid Waste, Update III, dated November 1996 and subsequent updates

**TABLE 3-3**
**GROUNDWATER ELEVATIONS**

**Cortese Landfill Site**
**Narrowsburg, NY**

| Monitoring Well ID | Measuring Point Elevation[1] (ft MSL) | 4/20/2025 | | 7/30/2025 | | 10/22/2025 | |
|---|---|---|---|---|---|---|---|
| | | Depth to Water (ft) | Groundwater Elevation (ft MSL) | Depth to Water (ft) | Groundwater Elevation (ft MSL) | Depth to Water (ft) | Groundwater Elevation (ft MSL) |
| MW-1A | 692.58 | 17.93 | 674.65 | 18.83 | 673.75 | 19.16 | 673.42 |
| MW-1B | 692.25 | 17.22 | 675.03 | 18.35 | 673.90 | 18.83 | 673.42 |
| MW-1C | 691.80 | 16.61 | 675.19 | 17.76 | 674.04 | 18.31 | 673.49 |
| MW-2A | 684.49 | 11.97 | 672.52 | 12.60 | 671.89 | 12.63 | 671.86 |
| MW-2B | 684.55 | 10.18 | 674.37 | 11.65 | 672.90 | 12.06 | 672.49 |
| MW-3A | 698.36 | 23.16 | 675.20 | 23.76 | 674.60 | 24.15 | 674.21 |
| MW-3B | 698.42 | 23.61 | 674.81 | 23.93 | 674.49 | 24.24 | 674.18 |
| MW-4B | 700.04 | 22.85 | 677.19 | 23.17 | 676.87 | 24.48 | 675.56 |
| MW-5 | 697.04 | 22.16 | 674.88 | 22.69 | 674.35 | 22.77 | 674.27 |
| MW-6A | 693.50 | 19.82 | 673.68 | 20.34 | 673.16 | 20.36 | 673.14 |
| MW-6B | 695.00 | 20.18 | 674.82 | 20.99 | 674.01 | 21.60 | 673.40 |
| MW-7A | 694.12 | 20.79 | 673.33 | 21.32 | 672.80 | 21.45 | 672.67 |
| MW-7M | 693.75 | 19.52 | 674.23 | 20.36 | 673.39 | 20.60 | 673.15 |
| MW-7B | 693.52 | 18.48 | 675.04 | (2) | NA | (2) | NA |
| MW-8A | 691.15 | 15.10 | 676.05 | 17.59 | 673.56 | 18.23 | 672.92 |
| MW-8B | 690.59 | 16.47 | 674.12 | 17.26 | 673.33 | 17.86 | 672.73 |
| MW-9 | 695.14 | 20.04 | 675.10 | 21.21 | 673.93 | 21.72 | 673.42 |
| MW-10 | 693.91 | 18.85 | 675.06 | 19.66 | 674.25 | 20.16 | 673.75 |
| MW-11 | 699.35 | 24.38 | 674.97 | 25.22 | 674.13 | 25.55 | 673.80 |
| MW-12 | 701.70 | 26.51 | 675.19 | 27.30 | 674.40 | 27.91 | 673.79 |
| MW-13 | 700.84 | 25.65 | 675.19 | 26.64 | 674.20 | 27.22 | 673.62 |
| MW-14 | 700.70 | 25.48 | 675.22 | 26.31 | 674.39 | 26.86 | 673.84 |
| MW-15 | 700.03 | 24.60 | 675.43 | 25.45 | 674.58 | 25.99 | 674.04 |
| MW-16 | 701.16 | 26.08 | 675.08 | 27.06 | 674.10 | 27.50 | 673.66 |
| MW-17 | 700.44 | 25.68 | 674.76 | 26.57 | 673.87 | 27.06 | 673.38 |
| EX-1 | 697.19 | 21.88 | 675.31 | 23.42 | 673.77 | 23.26 | 673.93 |
| S-1 | 700.44 | 25.32 | 675.12 | 26.18 | 674.26 | 26.68 | 673.76 |
| S-2 | 700.39 | 25.16 | 675.23 | 26.10 | 674.29 | 26.57 | 673.82 |
| MW-18A | 697.11 | 22.65 | 674.46 | 23.21 | 673.90 | 23.44 | 673.67 |
| MW-18B | 696.51 | 22.11 | 674.40 | 22.78 | 673.73 | 22.85 | 673.66 |
| MW-18C | 696.98 | 21.84 | 675.14 | 22.67 | 674.31 | 23.06 | 673.92 |
| MW-19 | 698.54 | 24.00 | 674.54 | 24.61 | 673.93 | 24.82 | 673.72 |
| MW-20A | 695.83 | 21.33 | 674.50 | 22.18 | 673.65 | 22.36 | 673.47 |
| MW-20B | 695.58 | 20.55 | 675.03 | 21.72 | 673.86 | 22.22 | 673.36 |
| MW-21 | 696.40 | 22.51 | 673.89 | 23.25 | 673.15 | 23.43 | 672.97 |
| MW-22 | 688.43 | 15.15 | 673.28 | 16.04 | 672.39 | 16.22 | 672.21 |

**Notes:**

[1] The measuring point for each monitoring well is the top of PVC casing. Elevations for monitoring wells installed prior to December 2010 were provided by Thew Associates, PLLC in December 2010. Elevations for monitoring wells installed after December 2010 were provided by Fisher Associates in February 2013

[2] Water level below top of dedicated pump

ft - feet

ft MSL - feet above mean sea level

NM - not measured

**TABLE 3-5**
**OU4 GROUNDWATER ANALYTICAL RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS**

**Cortese Landfill Site**
**Narrowsburg, NY**

| Parameter (ug/L) | SOURCE AREA TRANSECT MONITORING WELLS | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **MW-10** | **MW-11** | **EX-1** | **MW-1A** | **MW-1B** | **MW-1C** | **MW-20A** | **MW-20B** |
| | 4/21/2025 | 4/21/2025 | 4/20/2025 | 4/22/2025[1] | 4/22/2025 | 4/22/2025 | 4/20/2025 | 4/20/2025 |
| 1,2,4-Trichlorobenzene | <0.44U | <0.44U | **17J** | <0.44U | **4.1J+** | <0.52U | **0.89J** | **1.1J** |
| 1,2-Dichlorobenzene | <0.40U | <0.40U | **15J** | <0.40U | **5.8** | **0.93J** | **1.1J** | **1.3J** |
| 1,3-Dichlorobenzene | <0.48U | <0.48U | **17J** | <0.48U | **6.6** | **1.0J** | **0.58J** | **1.2J** |
| 1,4-Dichlorobenzene | **0.82J** | <0.46U | **47** | <0.46U | **16** | **3.1J** | **3.6J** | **3.3J** |
| 1,4-Dioxane | **60** | <1.1U | **31J** | <1.1U | **25** | **4.9J** | **4.5J** | **5.8J** |
| 2,4,5-Trichlorophenol | <0.48U | <0.48U | <4.8U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| 2,4,6-Trichlorophenol | <0.61U | <0.61U | <6.1U | <0.61U | <0.61U | <0.61U | <0.61U | <0.61U |
| 2,4-Dichlorophenol | <0.51U | <0.51U | <5.1U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| 2,4-Dimethylphenol | <0.50U | <0.50U | <5.0U | <0.50U | <0.50U | <0.50U | <0.50U | <0.50U |
| 2,4-Dinitrophenol | <2.2U | <2.2U | <22U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U |
| 2,4-Dinitrotoluene | <0.45U | <0.45U | <4.5U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| 2,6-Dinitrotoluene | <0.40U | <0.40U | <4.0U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U |
| 2-Chloronaphthalene | <0.46U | <0.46U | <4.6U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| 2-Chlorophenol | <0.53U | <0.53U | <5.3U | <0.53U | <0.53U | <0.53U | <0.53U | <0.53U |
| 2-Methylnaphthalene | <0.60U | <0.60U | <6.0U | <0.60U | <0.60U | <0.60U | <0.60U | <0.60U |
| 2-Methylphenol | <0.40U | <0.40U | <4.0U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U |
| 2-Nitroaniline | <0.42U | <0.42U | <4.2U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U |
| 2-Nitrophenol | <0.48U | <0.48U | <4.8U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| 3,3-Dichlorobenzidine | <0.40U | <0.40U | <4.0U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U |
| 3-Nitroaniline | <0.48UJ | <0.48UJ | <4.8UJ | <0.48UJ | <0.48UJ | <0.48UJ | <0.48UJ | <0.48UJ |
| 4,6-Dinitro-2-methylphenol | <2.2U | <2.2U | <22U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U |
| 4-Bromophenyl phenyl ether | <0.45U | <0.45U | <4.5U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| 4-Chloro-3-Methylphenol | <0.45U | <0.45U | <4.5U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| 4-Chloroaniline | <0.59U | <0.59U | <5.9U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U |
| 4-Chlorophenyl phenyl ether | <0.35U | <0.35U | <3.5U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| 4-Methylphenol | <0.36U | <0.36U | <3.6U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| 4-Nitroaniline | <0.25U | <0.25U | <2.5U | <0.25U | <0.25U | <0.25U | <0.25U | <0.25U |
| 4-Nitrophenol | <1.5U | <1.5U | <15U | <1.5U | <1.5U | <1.5U | <1.5U | <1.5U |
| Acenaphthene | <0.41U | <0.41U | <4.1U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| Acenaphthylene | <0.38U | <0.38U | <3.8U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| Anthracene | <0.28U | <0.28U | <2.8U | <0.28U | <0.28U | <0.28U | <0.28U | <0.28U |
| Benz(a)anthracene | <0.36U | <0.36U | <3.6U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| Benzo(a)pyrene | <0.47U | <0.47U | <4.7U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U |
| Benzo(b)fluoranthene | <0.34U | <0.34U | <3.4U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| Benzo(g,h,i)perylene | <0.35U | <0.35U | <3.5U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| Benzo(k)fluoranthene | <0.73U | <0.73U | <7.3U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| Benzoic Acid | <100U | <100U | <1000U | <100U | <100U | <100U | <100U | <100U |
| Benzyl alcohol | <0.44U | <0.44U | <4.4U | <0.44U | <0.44U | <0.44UJ | <0.44U | <0.44U |
| Bis(2-chloroethoxy) methane | <0.35U | <0.35U | <3.5U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| Bis(2-chloroethyl)ether | <0.40U | <0.40U | <4.0U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U |
| Bis(2-chloroisopropyl) ether | <0.52UJ | <0.52UJ | <5.2UJ | <0.52UJ | <0.52UJ | <0.52UJ | <0.52UJ | <0.52UJ |
| bis(2-Ethylhexyl)Phthalate | <1.8U | <1.8U | <18U | <1.8U | <1.8U | <1.8U | <1.8U | <1.8U |
| Butyl benzyl phthalate | <0.42U | <0.42U | <4.2U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U |

**TABLE 3-5**
**OU4 GROUNDWATER ANALYTICAL RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS**

**Cortese Landfill Site**
**Narrowsburg, NY**

| Parameter (ug/L) | SOURCE AREA TRANSECT MONITORING WELLS | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **MW-10** | **MW-11** | **EX-1** | **MW-1A** | **MW-1B** | **MW-1C** | **MW-20A** | **MW-20B** |
| | 4/21/2025 | 4/21/2025 | 4/20/2025 | 4/22/2025[1] | 4/22/2025 | 4/22/2025 | 4/20/2025 | 4/20/2025 |
| Carbazole | <0.30UJ | <0.30UJ | <3.0UJ | <0.30UJ | <0.30UJ | <0.30UJ | <0.30UJ | <0.30UJ |
| Chrysene | <0.33U | <0.33U | <3.3U | <0.33U | <0.33U | <0.33U | <0.33U | <0.33U |
| Dibenz(a,h)anthracene | <0.42U | <0.42U | <4.2U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U |
| Dibenzofuran | <0.51U | <0.51U | <5.1U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| Diethyl phthalate | <0.22U | <0.22U | <2.2U | <0.22U | <0.22U | <0.22U | <0.22U | <0.22U |
| Dimethyl phthalate | <0.36U | <0.36U | <3.6U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| Di-n-butyl phthalate | <0.31U | <0.31U | <3.1U | <0.31U | <0.31U | <0.31U | <0.31U | <0.31U |
| Di-n-octyl phthalate | <0.47U | <0.47U | <4.7U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U |
| Fluoranthene | <0.40U | <0.40U | <4.0U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U |
| Fluorene | <0.36U | <0.36U | <3.6U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| Hexachlorobenzene | <0.51U | <0.51U | <5.1U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| Hexachlorobutadiene | <0.68U | <0.68U | <6.8U | <0.68U | <0.68U | <0.68U | <0.68U | <0.68U |
| Hexachlorocyclopentadiene | <0.59U | <0.59U | <5.9U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U |
| Hexachloroethane | <0.59U | <0.59U | <5.9U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U |
| Indeno(1,2,3-c,d)pyrene | <0.47U | <0.47U | <4.7U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U |
| Isophorone | <0.43U | <0.43U | <4.3U | <0.43U | <0.43U | <0.43U | <0.43U | <0.43U |
| Naphthalene | <0.76U | <0.76U | <7.6U | <0.76U | <0.76U | <0.76U | <0.76U | <0.76U |
| Nitrobenzene | <0.29U | <0.29U | <2.9U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| N-nitrosodi-n-propylamine | <0.54UJ | <0.54UJ | <5.4U | <0.54UJ | <0.54UJ | <0.54UJ | <0.54U | <0.54U |
| N-Nitrosodiphenylamine | <0.51U | <0.51U | <5.1U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| Pentachlorophenol | <2.2U | <2.2U | <22U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U |
| Phenanthrene | <0.44U | <0.44U | <4.4U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| Phenol | <0.39U | <0.39U | <3.9U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| Pyrene | <0.34U | <0.34U | <3.4U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| Total SVOCs[2] | **61** | ND | **130** | ND | **58** | **10** | **11** | **13** |

**Notes:**

[1] FDUP-01-GW blind field duplicate samples sumbitted for MW-1A in April 2025

[2] Sum of detected SVOCs rounded up to nearest two significant digits

Detected parameters shown in **bold**

J - Analyte was detected at an estimated concentration

J+ - Analyte was detected at an estimated concentration, result may be biased high

U - Analyte was not detected in the sample; value shown is the method detection limit (MDL)

UJ - The analyte was not detected; the MDL is an estimated value

ND - Not Detected

ug/L - micrograms per Liter

**TABLE 3-6**
**OU4 GROUNDWATER ANALYTICAL RESULTS -**
**METALS, LEACHATE INDICATOR, TPH, AND FIELD WATER QUALITY PARAMETERS**

**Cortese Landfill Site**
**Narrowsburg, NY**

| Parameter | SOURCE AREA TRANSECT MONITORING WELLS | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-10 | | | MW-11 | EX-1 | | | MW-1A | MW-1B | | | MW-1C | | | MW-20A | | MW-20B | |
| | 4/21/2025 | 7/30/2025 | 10/22/2025 | 4/21/2025 | 4/20/2025 | 7/30/2025 | 10/22/2025 | 4/22/2025[(1)] | 4/22/2025 | 7/30/2025[(1)] | 10/23/2025[(1)] | 4/22/2025 | 7/30/2025 | 10/23/2025 | 4/20/2025 | 10/22/2025 | 4/20/2025 | 10/22/2025 |
| *Metals (µg/L)* | | | | | | | | | | | | | | | | | | |
| Arsenic (6010C) | **49** | **69** | **36** | <5.6U | **39** | **59** | **62** | **5.8J** | **34** | **23** | **23** | **48** | **59** | **60** | <5.6U | <5.6U | **19** | **24** |
| Iron (6010C) | **19,400** | **29,200** | **18,100** | **1,100** | **25,400** | **41,200** | **43,300** | **610J+** | **20,700** | **25,200** | **21,800** | **30,400** | **44,700** | **43,700** | **1,400** | **600** | **12,000** | **23,900** |
| Manganese (6010C) | **14,200** | **21,000** | **15,500** | **800** | **9,100** | **15,700** | **16,400** | **1,600** | **10,500** | **12,800** | **11,000** | **14,000** | **23,100** | **22,800** | **820** | **680** | **5,800** | **10,900** |
| | | | | | | | | | | | | | | | | | | |
| *Monitored Natural Attenuation and Leachate Indicator Parameters (mg/L)* | | | | | | | | | | | | | | | | | | |
| Alkalinity (310.2) | **81.1** | **114** | **48.3** | **60.9** | **69.7** | **133** | **132** | **75.5** | **106** | **122** | **86.7** | **50.6J** | **150** | **160** | **87.2** | **91.9** | **38.9** | **72** |
| Ammonia Nitrogen (350.1) | **0.87** | **1.0** | **1.0** | <0.0090U | **1.8** | **1.1** | **2.0** | **0.068J** | **3.4** | **1.8** | **3.7** | **1.7** | **1.5** | **5.3** | **0.17J+** | **0.21** | **1.2** | **3.0** |
| Total Organic Carbon (5310D) | **4.0** | **4.2** | **0.99J** | **0.53J** | **3.0** | **6.4** | **4.8** | **0.56J** | **4.8** | **5.0** | **1.9** | **5.8** | **7.0** | **4.2** | <0.43U | <0.43U | <0.43U | **1.1** |
| Nitrate-Nitrite (353.2) | **0.034J** | **0.030J** | <0.020U | **0.026J** | **0.031J** | **0.035J** | **0.021J** | <0.020U | **0.029J** | **0.034J** | <0.020U | **0.040J** | **0.037J** | **0.025J** | **0.028J** | <0.020U | **0.026J** | <0.020U |
| Sulfate (D-516-90) | **15.3** | **12** | **13.2** | **11.5** | **2.7J** | **3.5J** | **7.1** | **14.8** | **6.4** | <1.5U | **8.7** | <1.5U | <1.5U | <1.5U | **13.6** | **11.9** | **7.8** | **8.5** |
| | | | | | | | | | | | | | | | | | | |
| *Field Geochemistry* | | | | | | | | | | | | | | | | | | |
| Dissolved Oxygen (mg/L) | **0.50** | **0.54** | **0.42** | **0.55** | **0.25** | **0.32** | **0.20** | **2.89** | **2.18** | **1.78** | **2.52** | **0.78** | **0.69** | **1.98** | **0.36** | **0.46** | **0.19** | **0.26** |
| Conductivity (µS/cm) | **395** | **484** | **479** | **164** | **281** | **450** | **520** | **187** | **314** | **381** | **401** | **291** | **426** | **460** | **221** | **223** | **151** | **352** |
| pH | **5.28** | **5.5** | **6.25** | **6.90** | **6.36** | **6.12** | **6.89** | **6.95** | **5.43** | **5.08** | **5.26** | **5.85** | **5.95** | **5.81** | **5.68** | **6.13** | **5.87** | **6.61** |
| Oxidation-Reduction Potential (mV) | **9** | **150** | **-16** | **-26** | **-46** | **6** | **-60** | **-28** | **-46** | **110** | **-14** | **-131** | **39** | **-93** | **-13** | **-3.9** | **-12** | **-29** |
| Turbidity (NTU) | **14** | **14** | **3.6** | **3.9** | **11** | **9.9** | **3.6** | **9.6** | **3.6** | **2.0** | **1.2** | **5.3** | **10** | **3.5** | **12** | **7.1** | **8.6** | **3.5** |
| | | | | | | | | | | | | | | | | | | |
| *Total Petroleum Hydrocarbons (mg/L)* | | | | | | | | | | | | | | | | | | |
| Gasoline Range Organics (8015D) | **0.60J** | - | <0.59U | <0.59U | **0.58J** | - | <0.57U | <0.57U | **0.59J** | - | **0.57J** | <0.59U | - | **0.59J** | - | - | - | - |
| Diesel Range Organics (8015D) | <0.018U | - | <0.023U | <0.018U | **0.23J** | - | **0.39J** | <0.018U | **0.064** | - | **0.11** | **0.018J** | - | <0.023UJ | - | - | - | - |

**Notes:**

[(1)] FDUP-01-GW blind field duplicate samples submitted for MW-1A in April and for MW-1B in July and October 2025.

J - Analyte was detected at an estimated concentration

J+ - Analyte was detected at an estimated concentration, result may be biased high

J- - Analyte was detected at an estimated concentration, result may be biased low

UJ - Analyte was not detected; the MDL is an estimated value

U - Analyte was not detected in the sample; value shown is the method detection limit (MDL)

"-" - Sample was not analyzed for this parameter

mg/L - milligrams per Liter

µg/L - micrograms per Liter

µS/cm - microSiemens per centimeter

mV - milliVolts

NTU - Nephelometric Turbidity Unit

**TABLE 3-4**
**OU4 GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS**

**Cortese Landfill Site**
**Narrowsburg, NY**

| Parameter (ug/L) | SOURCE AREA TRANSECT MONITORING WELLS | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-10 | | | MW-11 | EX-1 | | | MW-1A | MW-1B | | | MW-1C | | | MW-20A | | MW-20B | |
| | 4/21/2025 | 7/30/2025 | 10/22/2025 | 4/21/2025 | 4/20/2025 | 7/30/2025 | 10/22/2025 | 4/22/2025[1] | 4/22/2025 | 7/30/2025[1] | 10/23/2025[1] | 4/22/2025 | 7/30/2025 | 10/23/2025 | 4/20/2025 | 10/22/2025 | 4/20/2025 | 10/22/2025 |
| 1,1,1-Trichloroethane | <0.82U | <0.82U | <0.82U | <0.82U | <1.6U | <8.2U | <3.3U | <0.82U | <0.82U | **3.1J** | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| 1,1,2,2-Tetrachloroethane | <0.21U | <0.21U | <0.21U | <0.21U | <0.42U | <2.1U | <0.84U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| 1,1,2-Trichloroethane | <0.23U | <0.23U | <0.23U | <0.23U | <0.46U | <2.3U | <0.92U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| 1,1-Dichloroethane | <0.38U | <0.38U | <0.38U | <0.38U | **9.0J** | **26J** | **13J** | <0.38U | **5.9** | **18** | **5.9** | **0.82J** | **1.1J** | **1.4J** | **5.7** | **3.8J** | **1.2J** | **5.1** |
| 1,1-Dichloroethene | <0.29U | <0.29U | <0.29U | <0.29U | <0.58U | <2.9U | <1.2U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| 1,2-Dichlorobenzene | <0.79U | **0.87J** | <0.79U | <0.79U | **22** | **59** | **31** | <0.79U | **8.3** | **14** | **9.8** | **1.6J** | <0.79U | **1.5J** | **1.4J** | **1.1J** | **1.4J** | **5.4** |
| 1,2-Dichloroethane | <0.21U | <0.21U | <0.21U | <0.21U | <0.42U | <2.1U | <0.84U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| 1,2-Dichloropropane | <0.72U | <0.72U | <0.72U | <0.72U | <1.4U | <7.2U | <2.9U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| 1,3-Dichlorobenzene | <0.78U | <0.78U | <0.78U | <0.78U | **26** | **37J** | **25** | <0.78U | **10** | **16** | **10** | **1.7J** | **1.2J** | <0.78U | **0.89J** | <0.78U | **1.6J** | **6.0** |
| 1,4-Dichlorobenzene | **1.2J** | **2J** | <0.84U | <0.84U | **72** | **230** | **110** | <0.84U | **24** | **43** | **28** | **4.8J** | **4.1J** | **5.5** | **5.0** | **4.1J** | **4.3J** | **17** |
| 2-Butanone | <1.3U | <1.3U | <1.3U | <1.3U | <2.6U | <13U | <5.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| 2-Hexanone | <1.2U | <1.2U | <1.2U | <1.2U | <2.5U | <12U | <5.0U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| 4-Methyl-2-pentanone | <2.1U | <2.1U | <2.1U | <2.1U | <4.2U | <21U | <8.4U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| Acetone | <3.0U | <3.0U | <3.0U | <3.0U | <6.0U | <30U | <12U | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U |
| Benzene | <0.41U | **0.66J** | <0.41U | <0.41U | <0.82U | **18J** | **9.9J** | <0.41U | <0.41U | **5.6** | **2.4J** | <0.41U | <0.41U | **0.53J** | <0.41U | <0.41U | <0.41U | **1.6J** |
| Dichlorobromomethane | <0.39U | <0.39U | <0.39U | <0.39U | <0.78U | <3.9U | <1.6U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| Bromoform | <0.26U | <0.26U | <0.26U | <0.26U | <0.52U | <2.6U | <1.0U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| Bromomethane | <0.69U | <0.69U | <0.69U | <0.69U | <1.4U | <6.9U | <2.8U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| Carbon Disulfide | <0.19U | <0.19U | <0.19U | <0.19U | <0.38U | <1.9U | <0.76U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| Carbon Tetrachloride | <0.27U | <0.27U | <0.27U | <0.27U | <0.54U | <2.7U | <1.1U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| Chlorobenzene | **6.2** | **9.3** | **4.1J** | <0.75U | **110** | **180** | **180** | <0.75U | **40** | **94** | **60** | **6.9** | **5.9** | **10** | **3.5J** | **3.0J** | **6.1** | **36** |
| Chlorodibromomethane | <0.32U | <0.32U | <0.32U | <0.32U | <0.64U | <3.2U | <1.3U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| Chloroethane | <0.32U | <0.32U | <0.32U | <0.32U | <0.64U | <3.2U | <1.3U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| Chloroform | <0.34U | <0.34U | <0.34U | <0.34U | **0.68J** | <3.4U | <1.4U | <0.34U | <0.34U | **0.69J** | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| Chloromethane | <0.35U | <0.35UJ | <0.35U | <0.35U | <0.70U | <3.5UJ | <1.4UJ | <0.35U | <0.35U | <0.35UJ | <0.35U | <0.35U | <0.35UJ | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| cis-1,2-Dichloroethene | **0.88J** | <0.81U | <0.81U | <0.81U | <1.6U | **210** | **33** | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | **1.4** | **1.2** | <0.81U | <0.81U |
| cis-1,3-Dichloropropene | <0.36U | <0.36U | <0.36U | <0.36U | <0.72U | <3.6U | <1.4U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| Methylene Chloride | <0.44U | <0.44U | <0.44U | <0.44U | <0.88U | <4.4U | <1.8U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| Ethylbenzene | <0.74U | <0.74U | <0.74U | <0.74U | **9.5J** | **34J** | **11J** | <0.74U | <0.74U | **11** | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| Styrene | <0.73U | <0.73U | <0.73U | <0.73U | <1.5U | <7.3U | <2.9U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| Trichloroethene | <0.46U | <0.46U | <0.46U | <0.46U | <0.92U | <4.6U | <1.8U | <0.46U | <0.46U | **0.52J** | <0.46U | <0.46U | <0.46U | <0.46U | **0.79J** | **0.78J** | **3.0J** | <0.46U |
| Tetrachloroethene | <0.36U | <0.36U | <0.36U | <0.36U | <0.72U | <3.6U | <1.4U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | **0.72J** | **2.4J** | <0.36U |
| Toluene | <0.51U | <0.51U | <0.51U | <0.51U | **4.8J** | <5.1U | <2.0U | <0.51U | <0.51U | **7.1** | <0.51U | <0.51U | **1.5J** | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| trans-1,2-Dichloroethene | <0.90U | <0.90U | <0.90U | <0.90U | <1.8U | <9.0U | <3.6U | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U |
| trans-1,3-Dichloropropene | <0.37U | <0.37U | <0.37U | <0.37U | <0.74U | <3.7U | <1.5U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| Vinyl Chloride | **1.7J** | <0.90UJ | <0.90U | <0.90U | <1.8U | **110J** | **25** | <0.90U | <0.90U | **1.5J** | <0.90U | <0.90U | <0.90UJ | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U |
| Total Xylenes | <0.66U | <0.66U | <0.66U | <0.66U | **1.7J** | **10J** | <2.6U | <0.66U | <0.66U | **17** | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| Total VOCs[2] | **10** | **13** | **4.1** | ND | **260** | **920** | **440** | ND | **89** | **230** | **120** | **16** | **14** | **19** | **19** | **15** | **20** | **72** |

**Notes:**

[1] FDUP-01-GW blind field duplicate samples sumbitted for MW-1A in April and MW-1B in July and October 2025.

[2] Sum of detected VOCs rounded up to nearest two significant digits

Detected parameters shown in **bold**

J - Analyte was detected at an estimated concentration

U - Analyte was not detected in the sample; value shown is the method detection limit (MDL)

UJ - The analyte was not detected; the MDL is an estimated value.

ND - Not Detected

ug/L - micrograms per Liter

**TABLE 3-7**
**OU3 GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS**

**Cortese Landfill Site**
**Narrowsburg, NY**

| Parameter (ug/L) | Cleanup Goal[1] | DOWNGRADIENT MONITORING WELLS | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-19 | | MW-18A | MW-18B | | MW-18C | | MW-6A | | MW-6B | | MW-21 | | MW-7A | MW-7B | MW-7M | | MW-22 | |
| | | 4/22/2025 | 10/23/2025 | 4/21/2025 | 4/21/2025 | 10/23/2025 | 4/21/2025 | 10/23/2025 | 4/21/2025 | 10/22/2025 | 4/21/2025 | 10/22/2025 | 4/21/2025 | 10/22/2025 | 4/21/2025 | NS | 4/21/2025 | 10/22/2025 | 4/20/2025[1] | 10/22/2025[1] |
| 1,1,1-Trichloroethane | 5 | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | **1.9J** | **2.8J** | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | - | <0.82U | <0.82U | <0.82U | <0.82U |
| 1,1,2,2-Tetrachloroethane | 5 | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | - | <0.21U | <0.21U | <0.21U | <0.21U |
| 1,1,2-Trichloroethane | 1 | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | - | <0.23U | <0.23U | <0.23U | <0.23U |
| 1,1-Dichloroethane | 5 | **3.2J** | **1.5J** | <0.38U | **10** | **12** | **1.7J** | **2.1J** | **13** | **9.3** | **1.9J** | **1.0J** | **5.0** | **4.3J** | <0.38U | - | **1.2J** | **0.77J** | **1.1J** | **1.6J** |
| 1,1-Dichloroethene | 5 | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | **0.51J** | <0.29U | <0.29U | <0.29UJ | <0.29U | <0.29U | - | <0.29U | <0.29U | <0.29U | <0.29U |
| 1,2-Dichlorobenzene | 3 | **2.5J** | **1.3J** | <0.79U | **7.2** | **8.3** | **1.1J** | **2.2J** | **5.0** | **4.8J** | **1.0J** | <0.79U | **5.4** | **4.7J** | <0.79U | - | **1.1J** | **0.82J** | **1.4J** | **1.0J** |
| 1,2-Dichloroethane | 0.6 | <0.21U | <0.21U | <0.21U | <0.21U | **0.25J** | <0.21U | <0.21U | <0.21U | **0.27J** | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | - | <0.21U | <0.21U | <0.21U | <0.21U |
| 1,2-Dichloropropane | 1 | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | - | <0.72U | <0.72U | <0.72U | <0.72U |
| 1,3-Dichlorobenzene | 3 | **2.6J** | **1.4J** | <0.78U | **10** | **10** | **1.5J** | **2.9J** | **4J** | **3.3J** | **1.3J** | <0.78U | **5.4** | **4.4J** | <0.78U | - | **0.90J** | <0.78U | **1.7J** | **1.3J** |
| 1,4-Dichlorobenzene | 3 | **8.0** | **4.3J** | <0.84U | **24** | **26** | **3.8J** | **6.8** | **19** | **17** | **3.8J** | **1.3J** | **25** | **19** | <0.84U | - | **4.3J** | **3.2J** | **5.3** | **4.2J** |
| 2-Butanone | 50 | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | - | <1.3U | <1.3U | <1.3U | <1.3U |
| 2-Hexanone | 50 | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | - | <1.2U | <1.2U | <1.2U | <1.2U |
| 4-Methyl-2-pentanone | 50 | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | - | <2.1U | <2.1U | <2.1U | <2.1U |
| Acetone | 50 | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U | <3.0U | - | <3.0U | <3.0U | <3.0U | <3.0U |
| Benzene | 1 | <0.41U | <0.41U | <0.41U | <0.41U | **3.0J** | <0.41U | <0.41U | <0.41U | **0.64J** | <0.41U | <0.41U | **0.63J** | **0.57J** | <0.41U | - | <0.41U | <0.41U | <0.41U | <0.41U |
| Dichlorobromomethane | 5 | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | - | <0.39U | <0.39U | <0.39U | <0.39U |
| Bromoform | NA | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | - | <0.26U | <0.26U | <0.26U | <0.26U |
| Bromomethane | NA | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | - | <0.69U | <0.69U | <0.69U | <0.69U |
| Carbon Disulfide | 50 | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | - | <0.19U | <0.19U | <0.19U | <0.19U |
| Carbon Tetrachloride | 5 | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27UJ | <0.27U | - | <0.27U | <0.27U | <0.27U | <0.27U |
| Chlorobenzene | 5 | **15** | **6.8** | <0.75U | **45** | **72** | **4.9J** | **9.8** | **11** | **12** | **5.9** | <0.75U | **8.6** | **7.4** | <0.75U | - | **1.9J** | <0.75U | **6.3** | **6.0** |
| Chlorodibromomethane | NA | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | - | <0.32U | <0.32U | <0.32U | <0.32U |
| Chloroethane | 5 | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | - | <0.32U | <0.32U | <0.32U | <0.32U |
| Chloroform | 5 | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | **0.65J** | <0.87U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | - | <0.34U | <0.34U | <0.34U | <0.34U |
| Chloromethane | 5 | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | - | <0.35U | <0.35U | <0.35U | <0.35U |
| cis-1,2-Dichloroethene | 5 | **2.7** | **3.0** | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | **36** | **41** | <0.81U | <0.81U | **1.1** | **1.1** | <0.81U | - | **0.85J** | <0.81U | <0.81U | <0.81U |
| cis-1,3-Dichloropropene | NA | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | - | <0.36U | <0.36U | <0.36U | <0.36U |
| Methylene Chloride | 5 | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | - | <0.44U | <0.44U | <0.44U | <0.44U |
| Ethylbenzene | 5 | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | - | <0.74U | <0.74U | <0.74U | <0.74U |
| Styrene | NA | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | - | <0.73U | <0.73U | <0.73U | <0.73U |
| Trichloroethene | 5 | **0.67J** | **0.52J** | <0.46U | <0.46U | **0.47J** | <0.46U | <0.46U | **81** | **87** | <0.46U | <0.46U | **0.90J** | **0.86J** | <0.46U | - | **0.52J** | <0.46U | <0.46U | <0.46U |
| Tetrachloroethene | 5 | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | **2.2J** | **3.9J** | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | - | <0.36U | <0.36U | <0.36U | <0.36U |
| Toluene | 5 | <0.51U | <0.51U | <0.51U | **0.62J** | **0.83J** | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | - | <0.51U | <0.51U | <0.51U | <0.51U |
| trans-1,2-Dichloroethene | 5 | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U | <0.90UJ | <0.90U | <0.90U | - | <0.90U | <0.90U | <0.90U | <0.90U |
| trans-1,3-Dichloropropene | NA | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | - | <0.37U | <0.37U | <0.37U | <0.37U |
| Vinyl Chloride | 2 | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U | <0.90U | **4.4J** | **4.1J** | <0.90U | <0.90U | <0.90UJ | <0.90U | <0.90U | - | <0.90U | <0.90U | <0.90U | <0.90U |
| Total Xylenes | 5 | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | - | <0.66U | <0.66U | <0.66U | <0.66U |
| Total VOCS[3] | NA | **35** | **19** | ND | **97** | **140** | **13** | **24** | **180** | **190** | **14** | **2.3** | **53** | **43** | ND | - | **11** | **4.8** | **16** | **15** |

**Notes:**

[1] Cleanup Goal presented in Table 2 - Chemical-Specific Groundwater ARARs and TBCs of MNA Remedial Design, Operable Unit 3, Downgradient Groundwater, revised (Geosyntec, May 2013)

[2] FDUP-02-GW blind field duplicate samples sumbitted for MW-22 in April and October 2025

[3] Sum of detected VOCs rounded up to nearest two significant digits

Detected parameters shown in **bold**

Shaded indicates concentration detected above cleanup goal

J - Analyte was detected at an estimated concentration

U - Analyte was not detected in the sample; value shown is the method detection limit (MDL)

UJ - The analyte was not detected; the MDL is an estimated value

NA - not applicable, no cleanup goal specified.

ND - Not Detected

NS - Monitoring well was dry at time of sampling and no samples were collected.

"-" - No sample collected

ug/L - micrograms per Liter

**TABLE 3-8**
**OU3 GROUNDWATER ANALYTICAL RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS**

**Cortese Landfill Site**
**Narrowsburg, NY**

| Parameter (ug/L) | Cleanup Goal[1] | DOWNGRADIENT MONITORING WELLS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-19 | MW-18A | MW-18B | MW-18C | MW-6A | MW-6B | MW-21 | MW-7A | MW-7B | MW-7M | MW-22 |
| | | 4/22/2025 | 4/21/2025 | 4/21/2025 | 4/21/2025 | 4/21/2025 | 4/21/2025 | 4/21/2025 | 4/21/2025 | NS | 4/21/2025 | 4/20/2025[2] |
| 1,2,4-Trichlorobenzene | 5 | **2.6J+** | <0.44U | **5.9J+** | <1.4U | **4.1J+** | <1.1U | **3.7J+** | <0.44U | - | <1.3U | **1.2J** |
| 1,2-Dichlorobenzene | 3 | **2.1** | <0.40U | **4.7** | **0.85J** | **3.8** | **0.64J** | **3.8** | <0.40U | - | **0.80J** | **0.85J** |
| 1,3-Dichlorobenzene | 3 | **2.1** | <0.48U | **6.0** | **1.2J** | **2.9** | **0.79J** | **3.8** | <0.48U | - | **0.58J** | **1.0J** |
| 1,4-Dichlorobenzene | 3 | **6.3** | <0.46U | **14** | **2.8J** | **13** | **2.3J** | **15** | <0.46U | - | **2.9J** | **3.4J** |
| 1,4-Dioxane | 50 | **19** | <1.1U | **10** | **5.5J** | **16** | **6.8J** | **13** | <1.1U | - | **2.0J** | **1.9J** |
| 2,4,5-Trichlorophenol | 5 | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | - | <0.48U | <0.48U |
| 2,4,6-Trichlorophenol | NA | <0.61U | <0.61U | <0.61U | <0.61U | <0.61U | <0.61U | <0.61U | <0.61U | - | <0.61U | <0.61U |
| 2,4-Dichlorophenol | 1 | <0.51U | <0.51U | **0.56J** | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | - | <0.51U | <0.51U |
| 2,4-Dimethylphenol | 1 | <0.50U | <0.50U | <0.50U | <0.50U | <0.50U | <0.50U | <0.50U | <0.50U | - | <0.50U | <0.50U |
| 2,4-Dinitrophenol | NA | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2UJ | <2.2U | - | <2.2U | <2.2U |
| 2,4-Dinitrotoluene | NA | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | - | <0.45U | <0.45U |
| 2,6-Dinitrotoluene | NA | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | - | <0.40U | <0.40U |
| 2-Chloronaphthalene | NA | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | - | <0.46U | <0.46U |
| 2-Chlorophenol | 5 | <0.53U | <0.53U | <0.53U | <0.53U | <0.53U | <0.53U | <0.53U | <0.53U | - | <0.53U | <0.53U |
| 2-Methylnaphthalene | 50 | <0.60U | <0.60U | <0.60U | <0.60U | <0.60U | <0.60U | <0.60U | <0.60U | - | <0.60U | <0.60U |
| 2-Methylphenol | 50 | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | - | <0.40U | <0.40U |
| 2-Nitroaniline | NA | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | - | <0.42UJ | <0.42U |
| 2-Nitrophenol | NA | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | - | <0.48U | <0.48U |
| 3,3-Dichlorobenzidine | 5 | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | - | <0.40U | <0.40U |
| 3-Nitroaniline | NA | <0.48UJ | <0.48UJ | <0.48UJ | <0.48UJ | <0.48UJ | <0.48U | <0.48UJ | <0.48U | - | <0.48UJ | <0.48UJ |
| 4,6-Dinitro-2-methylphenol | NA | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U | - | <2.2U | <2.2U |
| 4-Bromophenyl phenyl ether | NA | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | - | <0.45U | <0.45U |
| 4-Chloro-3-Methylphenol | 5 | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | - | <0.45U | <0.45U |
| 4-Chloroaniline | 5 | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | - | <0.59U | <0.59U |
| 4-Chlorophenyl phenyl ether | NA | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | - | <0.35U | <0.35U |
| 4-Methylphenol | 50 | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | - | <0.36U | <0.36U |
| 4-Nitroaniline | 5 | <0.25U | <0.25U | <0.25U | <0.25U | <0.25U | <0.25U | <0.25U | <0.25U | - | <0.25U | <0.25U |
| 4-Nitrophenol | 5 | <1.5U | <1.5U | <1.5U | <1.5U | <1.5U | <1.5U | <1.5U | <1.5U | - | <1.5U | <1.5U |
| Acenaphthene | 50 | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | - | <0.41U | <0.41U |
| Acenaphthylene | 50 | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | - | <0.38U | <0.38U |
| Anthracene | 50 | <0.28U | <0.28U | <0.28U | <0.28U | <0.28U | <0.28U | <0.28U | <0.28U | - | <0.28U | <0.28U |
| Benz(a)anthracene | 50 | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | - | <0.36U | <0.36U |
| Benzo(a)pyrene | 0.2 | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | - | <0.47U | <0.47U |
| Benzo(b)fluoranthene | 50 | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | - | <0.34U | <0.34U |
| Benzo(g,h,i)perylene | 50 | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35UJ | <0.35U | - | <0.35U | <0.35U |
| Benzo(k)fluoranthene | 50 | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | - | <0.73U | <0.73U |
| Benzoic Acid | 50 | <100U | <100U | <100U | <100U | <100U | <100U | <100U | <100U | - | <100U | <100U |
| Benzyl alcohol | 50 | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | - | <0.44U | <0.44U |
| Bis(2-chloroethoxy) methane | NA | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | - | <0.35U | <0.35U |
| Bis(2-chloroethyl)ether | 1 | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | - | <0.40UJ | <0.40U |
| Bis(2-chloroisopropyl) ether | NA | <0.52UJ | <0.52UJ | <0.52UJ | <0.52UJ | <0.52UJ | <0.52UJ | <0.52U | <0.52UJ | - | <0.52UJ | <0.52UJ |
| bis(2-Ethylhexyl)Phthalate | 5 | <1.8U | <1.8U | <1.8U | <1.8U | <1.8U | <1.8U | <1.8U | <1.8U | - | <1.8U | <1.8U |

**TABLE 3-8**
**OU3 GROUNDWATER ANALYTICAL RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS**

**Cortese Landfill Site**
**Narrowsburg, NY**

| Parameter (ug/L) | Cleanup Goal[1] | DOWNGRADIENT MONITORING WELLS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-19 | MW-18A | MW-18B | MW-18C | MW-6A | MW-6B | MW-21 | MW-7A | MW-7B | MW-7M | MW-22 |
| | | 4/22/2025 | 4/21/2025 | 4/21/2025 | 4/21/2025 | 4/21/2025 | 4/21/2025 | 4/21/2025 | 4/21/2025 | NS | 4/21/2025 | 4/20/2025[2] |
| Butyl benzyl phthalate | NA | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | - | <0.42U | <0.42U |
| Carbazole | 50 | <0.30UJ | <0.30UJ | <0.30UJ | <0.30UJ | <0.30UJ | <0.30U | <0.30UJ | <0.30U | - | <0.30U | <0.30UJ |
| Chrysene | 50 | <0.33U | <0.33U | <0.33U | <0.33U | <0.33U | <0.33U | <0.33U | <0.33U | - | <0.33U | <0.33U |
| Dibenz(a,h)anthracene | NA | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | - | <0.42U | <0.42U |
| Dibenzofuran | 50 | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | - | <0.51U | <0.51U |
| Diethyl phthalate | 50 | <0.22U | <0.22U | <0.22U | <0.22U | <0.22U | <0.22U | **0.24J** | <0.22U | - | <0.22U | <0.22U |
| Dimethyl phthalate | 50 | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | - | <0.36U | <0.36U |
| Di-n-butyl phthalate | 50 | <0.31U | <0.31U | <0.31U | <0.31U | <0.31U | <0.31U | <0.31U | <0.31U | - | <0.31U | <0.31U |
| Di-n-octyl phthalate | 50 | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | - | <0.47U | <0.47U |
| Fluoranthene | 50 | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | <0.40U | - | <0.40U | <0.40U |
| Fluorene | 50 | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | - | <0.36U | <0.36U |
| Hexachlorobenzene | 0.04 | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | - | <0.51U | <0.51U |
| Hexachlorobutadiene | 0.5 | <0.68U | <0.68U | <0.68U | <0.68U | <0.68U | <0.68U | <0.68U | <0.68U | - | <0.68U | <0.68U |
| Hexachlorocyclopentadiene | NA | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59UJ | <0.59U | - | <0.59U | <0.59U |
| Hexachloroethane | NA | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | - | <0.59U | <0.59U |
| Indeno(1,2,3-c,d)pyrene | NA | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47UJ | <0.47U | - | <0.47U | <0.47U |
| Isophorone | 50 | <0.43U | <0.43U | <0.43U | <0.43U | <0.43U | <0.43U | <0.43U | <0.43U | - | <0.43U | <0.43U |
| Naphthalene | 50 | <0.76U | <0.76U | <0.76U | <0.76U | <0.76U | <0.76U | <0.76U | <0.76U | - | <0.76U | <0.76U |
| Nitrobenzene | NA | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | - | <0.29U | <0.29U |
| N-nitrosodi-n-propylamine | NA | <0.54UJ | <0.54UJ | <0.54UJ | <0.54UJ | <0.54UJ | <0.54U | <0.54UJ | <0.54U | - | <0.54UJ | <0.54U |
| N-Nitrosodiphenylamine | 5 | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | - | <0.51U | <0.51U |
| Pentachlorophenol | 1 | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U | - | <2.2U | <2.2U |
| Phenanthrene | 50 | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | - | <0.44U | <0.44U |
| Phenol | 5 | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | - | <0.39UJ | <0.39U |
| Pyrene | 50 | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | - | <0.34U | <0.34U |
| Total SVOCS | NA | **33** | ND | **42** | **11** | **40** | **11** | **40** | ND | **-** | **6.3** | **8.4** |

**Notes:**

[1] Cleanup Goal presented in Table 2 - Chemical-Specific Groundwater ARARs and TBCs of MNA Remedial Design, Operable Unit 3, Downgradient Groundwater, revised (Geosyntec, May 2013).

[2] FDUP-02-GW blind field duplicate samples sumbitted for MW-22 in April 2025

Detected parameters shown in **bold**

Shaded indicates concentration detected above cleanup goal

J - Analyte was detected at an estimated concentration

J+ - Analyte was detected at an estimated concentration, result may be biased high

U - Analyte was not detected in the sample; value shown is the method detection limit (MDL)

UJ - Analyte was not detected; the MDL is an estimated value

NA - not applicable, no cleanup goal specified.

ND - Not Detected

NS - Monitoring well was dry at time of sampling and no samples were collected.

"-" - No sample collected

ug/L - micrograms per Liter

**TABLE 3-9**
**OU3 GROUNDWATER ANALYTICAL RESULTS -**
**METALS, LEACHATE INDICATOR, TPH, AND FIELD WATER QUALITY PARAMETERS**

**Cortese Landfill Site**
**Narrowsburg, NY**

| Parameter | Cleanup Goal[1] | DOWNGRADIENT MONITORING WELLS | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-19 | | MW-18A | MW-18B | | MW-18C | | MW-6A | | MW-6B | | MW-21 | | MW-7A | MW-7B | MW-7M | | MW-22 | |
| | | 4/22/2025 | 10/23/2025 | 4/21/2025 | 4/21/2025 | 10/23/2025 | 4/21/2025 | 10/23/2025 | 4/21/2025 | 10/22/2025 | 4/21/2025 | 10/22/2025 | 4/21/2025 | 10/22/2025 | 4/21/2025 | NS | 4/21/2025 | 10/22/2025 | 4/20/2025[1] | 10/22/2025[1] |
| *Metals (µg/L)* | | | | | | | | | | | | | | | | | | | | | |
| Arsenic (6010C) | 10 | **9.2J** | <5.6U | **8.3J** | **61** | **59** | **9.2J** | <5.6U | <5.6U | <5.6U | **50** | **9.0J** | <5.6U | <5.6U | <5.6U | - | <5.6U | <5.6U | **26** | **23** |
| Iron (6010C) | 300 | **4,500** | **3,100** | **190J+** | **43,300** | **43,000** | **7,800** | **9,900** | <71U | **47J** | **15,700** | **3,700** | **3,800** | **2,300** | <27U | - | <33U | **34J** | **7,700** | **8,400** |
| Manganese (6010C) | 300 | **17,600** | **11,400** | **1,700** | **11,000** | **11,100** | **7,500** | **9,000** | **9,100** | **7,900** | **13,300** | **8,600** | **1,500** | **1,400** | <1.3U | - | **1,300** | **1,200** | **10,500** | **9,900** |
| | | | | | | | | | | | | | | | | | | | | | |
| *Monitored Natural Attenuation and Leachate Indicator Parameters (mg/L)* | | | | | | | | | | | | | | | | | | | | | |
| Alkalinity (310.2) | NA | **68.9** | **57.1** | **93.8** | **97.5** | **85.6** | **30.0** | **31.8** | **108** | **129** | **54.4** | **48.7** | **99.1** | **121** | **20.8** | - | **53.7** | **67.2** | **42.7** | **51.8** |
| Ammonia Nitrogen (350.1) | 2 | **0.25** | **0.29** | <0.0090U | **1.1** | **1.1** | **0.58** | **0.78** | **0.40** | **0.3J+** | **1.4** | **0.97** | **3.1** | **3.4** | **0.0090J** | - | **1.4** | **1.4** | **1.6** | **1.6** |
| Total Organic Carbon (5310D) | 10 | **1.6** | <0.43U | **0.69J** | **4.0** | **2.1** | **1.1** | <0.43U | **4.4** | **4.1** | **2.0** | <0.43U | **2.3** | **0.85J** | **0.79J** | - | **1.1** | <0.43U | <0.43U | <0.43U |
| Nitrate-Nitrite (353.2) | 250 | **0.023J** | **0.023J** | <0.020U | **0.046J** | **0.022J** | **0.042J** | <0.020U | <0.020U | <0.020U | **0.027J** | <0.020U | <0.020U | <0.020U | **0.095** | - | <0.020U | <0.020U | **0.029J** | <0.020UJ |
| Sulfate (D-516-90) | NA | **20.6** | **18.7** | **16.9** | **13.1** | **7.4** | **12.4** | **9.70** | **18.8** | **19.0** | **13.7** | **11.1** | **27.4** | **23.6** | **8.8** | - | **12.8** | **9.4** | **10.8** | **8.4** |
| | | | | | | | | | | | | | | | | | | | | | |
| *Field Geochemistry* | | | | | | | | | | | | | | | | | | | | | |
| Dissolved Oxygen (mg/L) | NA | **0.79** | **0.55** | **0.20** | **0.23** | **1.66** | **0.42** | **0.35** | **0.73** | **2.11** | **6.61** | **1.31** | **0.77** | **2.27** | **6.33** | - | **0.83** | **1.96** | **0.64** | **2.36** |
| Conductivity (µS/cm) | NA | **278** | **263** | **268** | **341** | **377** | **253** | **310** | **361** | **367** | **260** | **255** | **296** | **315** | **79** | - | **168** | **175** | **153** | **180** |
| pH | NA | **6.01** | **6.56** | **7.54** | **6.35** | **6.16** | **5.98** | **6.71** | **4.90** | **4.99** | **5.97** | **5.25** | **6.13** | **6.34** | **5.38** | - | **5.85** | **6.09** | **6.09** | **5.68** |
| Oxidation-Reduction Potential (mV) | NA | **-38** | **-22** | **-67** | **-57** | **-109** | **-19** | **-28** | **78** | **87** | **9** | **71** | **12** | **88** | **45** | - | **30** | **6** | **-20** | **-27** |
| Turbidity (NTU) | NA | **2.5** | **3.6** | **4.5** | **10** | **2.8** | **5.6** | **1.8** | **2.2** | **3.9** | **6.8** | **7.6** | **8.9** | **6.4** | **2.3** | - | **1.9** | **3.7** | **10** | **4.4** |

**Notes:**

[1] Cleanup Goal presented in Table 2 - Chemical-Specific Groundwater ARARs and TBCs of MNA Remedial Design, Operable Unit 3, Downgradient Groundwater, revised (Geosyntec, May 2013).

[2] FDUP-02-GW blind field duplicate samples sumbitted for MW-22 in April and October 2025

Detected parameters shown in **bold**

Shaded indicates concentration detected above cleanup goal

J - Analyte was detected at an estimated concentration

J+ - Analyte was detected at an estimated concentration, result may be biased high

U - Analyte was not detected in the sample; value shown is the method detection limit (MDL)

"-" - No sample collected.

NA - not applicable, no cleanup goal specified.

NS - Monitoring well was dry at time of sampling and no samples were collected.

µg/L - mircograms per Liter

µS/cm - microSiemens per centimeter

mV - milliVolts

NTU - Nephelometric Turbiity Unit

**TABLE 3-10**
**SUMMARY OF OU4 TRANSECT TOTAL VOC MASS DISCHARGE**

**Cortese Landfill**
**Narrowsburg, NY**

| Monitoring Well | Baseline Mass Discharge [(1)] | Apr-25 | | Jul-25 | | Oct-25 | |
|---|---|---|---|---|---|---|---|
| | | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline |
| Units | µg/sec | µg/sec | % | µg/sec | % | µg/sec | % |
| MW-10 | 7.73 | 1.41 | -82% | 1.83 | -76% | 0.576 | -93% |
| MW-11 | 0.32 | *0.00* | *-100%* | *0.00* | *-100%* | *0.00* | *-100%* |
| EX-1 | 3197 | 118 | -96% | 417 | -87% | 199 | -94% |
| MW-1A | 0.00 | 0.00 | 0% | 0.00 | 0% | 0.00 | 0% |
| MW-1B | 988 | 29.5 | -97% | 76.2 | -92% | 39.8 | -96% |
| MW-1C | 37.8 | 3.67 | -90% | 3.21 | -92% | 4.35 | -88% |
| MW-20A | 1.16 | 0.30 | -74% | *0.301* | *-74%* | 0.237 | -79% |
| MW-20B | 127 | 8.75 | -93% | *8.75* | *-93%* | 31.5 | -75% |
| MW-8A | 0.00 | *0.00* | *0%* | *0.00* | *0%* | *0.00* | *0%* |
| MW-8B | 0.00 | *0.00* | *0%* | *0.00* | *0%* | *0.00* | *0%* |
| Total for Source Area Transect | 4360 | 161 | -96% | 507 | -88% | 276 | -94% |

**Notes:**

[(1)] Baseline mass discharge presented in Operations, Maintenance, and Monitoring Plan, Revision 1 (July, 2014)

Mass discharge calculation details are provided in Appendix C

*Italics* - Indicates total VOC concentration from previous sampling event used to calculate mass dicharge and RPD

RPD - relative precent difference calculated as (Δ mass discharge/baseline mass discharge)

% - percent

µg/sec - micrograms per second

# TABLE 3-11
# SUMMARY OF OU3 TRANSECT TOTAL VOC MASS DISCHARGE

**Cortese Landfill**
**Narrowsburg, NY**

| Monitoring Well | Baseline Mass Discharge [(1)] | Apr-25 | | Oct-25 | |
|---|---|---|---|---|---|
| | | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline |
| Units | µg/sec | µg/sec | % | µg/sec | % |
| MW-5 | 0.00 | *0.00* | *0%* | *0.00* | *0%* |
| MW-19 | 23.1 | 5.77 | -75% | 3.13 | -86% |
| MW-18A | 0.114 | 0.00 | -100% | 0.00 | -100% |
| MW-18B | 60.5 | 2.40 | -96% | 3.46 | -94% |
| MW-18C | 54.8 | 9.25 | -83% | 17.1 | -69% |
| MW-6A | 76.1 | 25.46 | -67% | 26.9 | -65% |
| MW-6B | 31.5 | 6.04 | -81% | 0.992 | -97% |
| MW-21 | 9.95 | 2.13 | -79% | 1.62 | -84% |
| MW-7A | 0.624 | *0.00* | *-100%* | *0.00* | *-100%* |
| MW-7B | 11.6 | *0.00* | *-100%* | *0.00* | *-100%* |
| MW-7M | 0.378 | 0.0799 | -79% | 0.0349 | -91% |
| MW-22 | 2.13 | 0.784 | -63% | 0.735 | -66% |
| MW-2A | 0.00 | *0.00* | *0%* | *0.00* | *0%* |
| MW-2B | 11.0 | *0.00* | *-100%* | *0.00* | *-100%* |
| Total for Downgradient Transect | 282 | 51.9 | -82% | 53.9 | -81% |

**Notes:**

[(1)] Baseline mass discharge presented in Operations, Maintenance, and Monitoring Plan, Revision 1 (July, 2014)

Mass discharge calculation details are provided in Appendix C

*Italics* - Indicates total VOC concentration from previous sampling event used to calculate mass dicharge and RPD

RPD - relative precent difference calculated as (Δ mass discharge/baseline mass discharge)

% - percent

µg/sec - micrograms per second

**TABLE 3-12**
**COMPARISON OF OU3 AND OU4 TRANSECT TOTAL VOC MASS DISCHARGE**

**Cortese Landfill**
**Narrowsburg, NY**

| Date | Source Area (OU4) Transect Mass Discharge | Downgradient (OU3) Transect Mass Discharge | RPD Between OU4 and OU3 | VOC Attenuation Rate Between Transects |
|---|---|---|---|---|
| Units | µg/sec | µg/sec | % | µg/sec |
| Baseline [(1)] | 4360 | 282 | -94% | 4078 |
| Apr-14 | 2678 | 151 | -94% | 2527 |
| Oct-14 | 1066 | 203 | -81% | 864 |
| Apr-15 | 1512 | 120 | -92% | 1392 |
| Oct-15 | 99.7 | 115 | 15% | -14.9 |
| May-16 | 1395 | 161 | -88% | 1234 |
| Oct-16 | 55.7 | 91.3 | 64% | -35.6 |
| Apr-17 | 337 | 68.0 | -80% | 269 |
| Oct-17 | 31.0 | 80.0 | 158% | -49.0 |
| May-18 | 177 | 88.0 | -50% | 88.6 |
| Oct-18 | 126 | 88.0 | -30% | 38.4 |
| Apr-19 | 186 | 73.6 | -60% | 112 |
| Oct-19 | 381 | 101 | -73% | 280 |
| Apr-20 | 122 | 86.0 | -29% | 35.6 |
| Oct-20 | 304 | 101 | -67% | 203 |
| Apr-21 | 292 | 75.3 | -74% | 217 |
| Oct-21 | 393 | 81.3 | -79% | 311 |
| Apr-22 | 591 | 73.7 | -88% | 517 |
| Oct-22 | 303 | 84.7 | -72% | 219 |
| Apr-23 | 388 | 119 | -69% | 269 |
| Oct-23 | 199 | 65.5 | -67% | 134 |
| Apr-24 | 586 | 29.6 | -95% | 186 |
| Oct-24 | 502 | 85.0 | -83% | 38.7 |
| Apr-25 | 161 | 51.9 | -68% | 109 |
| Oct-25 | 276 | 53.9 | -80% | 222 |

**Notes:**
[(1)] Baseline mass discharge presented in Operations, Maintenance, and Monitoring Plan, Revision 1 (July, 2014)
RPD - relative precent difference calculated as (Δ OU3 and OU4 mass discharge/OU4 mass discharge)
VOC Attenuation Rate calculated as (OU4 mass discharge - OU3 mass discharge)
% - percent
µg/sec - micrograms per second

**TABLE 3-13**
**SURFACE WATER ANALYTICAL RESULTS**

**Cortese Landfill Site**
**Narrowsburg, NY**

| Parameter | SW-12 | SW-DRU |
|---|---|---|
| | 10/23/2025[1] | 10/23/2025 |
| *Volatile Organic Compounds (µg/L)* | | |
| 1,1,1-Trichloroethane | <0.82U | <0.82U |
| 1,1,2,2-Tetrachloroethane | <0.21U | <0.21U |
| 1,1,2-Trichloroethane | <0.23U | <0.23U |
| 1,1-Dichloroethane | <0.38U | <0.38U |
| 1,1-Dichloroethene | <0.29U | <0.29U |
| 1,2-Dichloroethane | <0.79U | <0.79U |
| 1,2-Dichloropropane | <0.21U | <0.21U |
| 1,2-Dichlorobenzene | <0.72U | <0.72U |
| 1,3-Dichlorobenzene | <0.78U | <0.78U |
| 1,4-Dichlorobenzene | <0.84U | <0.84U |
| 2-Butanone | <1.3U | <1.3U |
| 2-Hexanone | <1.2U | <1.2U |
| 4-Methyl-2-pentanone | <2.1U | <2.1U |
| Acetone | <3.0U | <3.0U |
| Benzene | <0.41U | <0.41U |
| Dichlorobromomethane | <0.39U | <0.39U |
| Bromoform | <0.26U | <0.26U |
| Bromomethane | <0.69U | <0.69U |
| Carbon Disulfide | <0.19U | <0.19U |
| Carbon Tetrachloride | <0.27U | <0.27U |
| Chlorobenzene | <0.75U | <0.75U |
| Chlorodibromomethane | <0.32UJ | <0.32UJ |
| Chloroethane | <0.32U | <0.32U |
| Chloroform | <0.34U | <0.34U |
| Chloromethane | <0.35U | <0.35U |
| cis-1,2-Dichloroethene | <0.81U | <0.81U |
| cis-1,3-Dichloropropene | <0.36U | <0.36U |
| Methylene Chloride | <0.44U | <0.44U |
| Ethylbenzene | <0.74U | <0.74U |
| Styrene | <0.73U | <0.73U |
| Trichloroethene | <0.46U | <0.46U |
| Tetrachloroethene | <0.36U | <0.36U |
| Toluene | <0.51U | <0.51U |
| trans-1,2-Dichloroethene | <0.90U | <0.90U |
| trans-1,3-Dichloropropene | <0.37U | <0.37U |
| Vinyl Chloride | <0.90U | <0.90U |
| Total Xylenes | <0.66U | <0.66U |
| *Metals (µg/L)* | | |
| Arsenic | <5.6U | <5.6U |
| Iron | **190** | **120J** |
| Manganese | **67** | **15** |
| | | |
| *General Chemistry (mg/L)* | | |
| TSS | <4.0U | <4.0U |

**Notes:**

[1] FDUP-01-SW blind field duplicate sample submitted for SW-12 in October 2025

Detected parameters shown in **bold**

J - Analyte was detected at an estimated concentration

U - Analyte was not detected in the sample; value shown is the method detection limit (MDL)

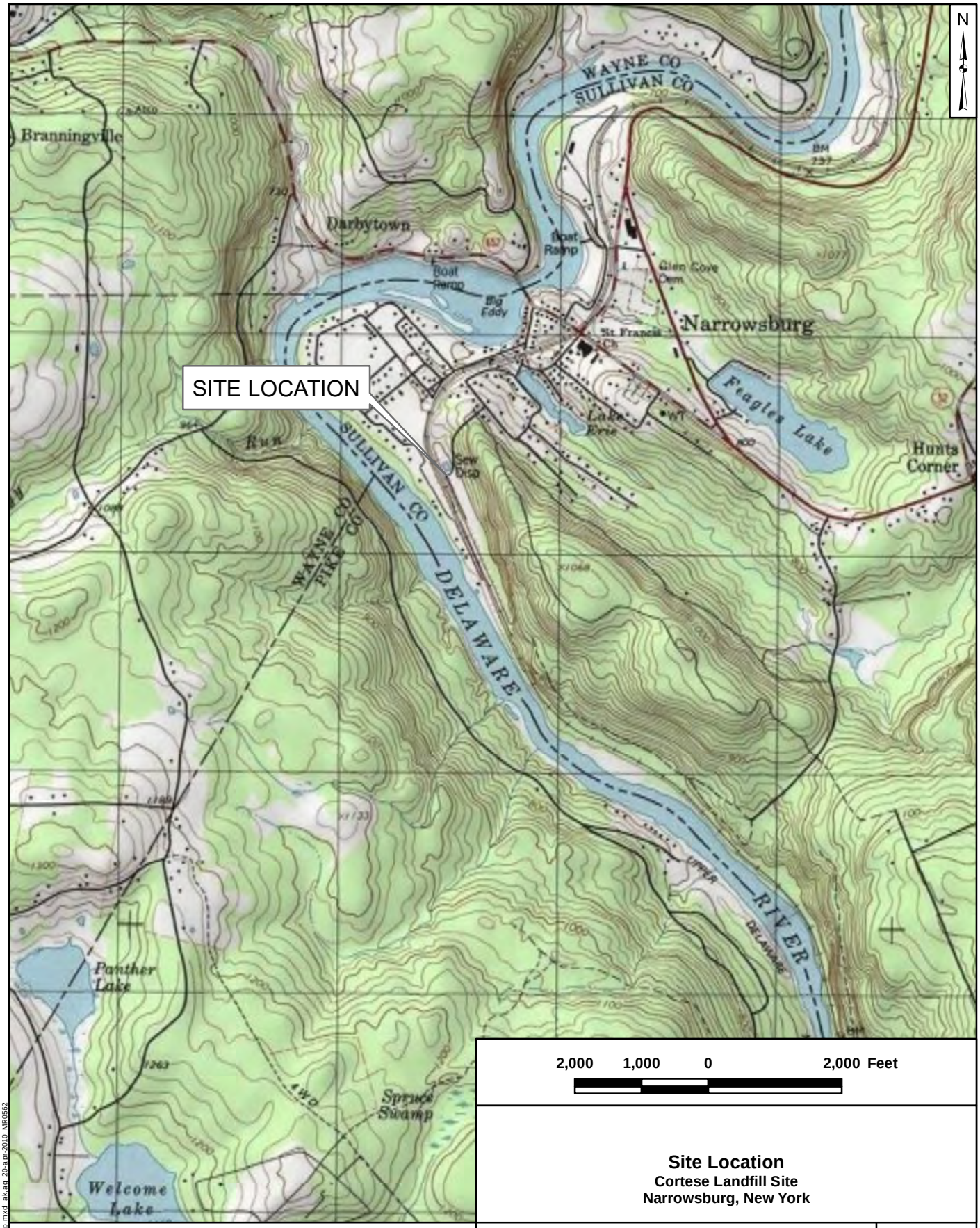
UJ - The analyte was not detected; the MDL is an estimated value.

mg/L - milligrams per Liter

µg/L - micrograms per Liter

TSS - Total Suspended Solids

# FIGURES




**Site Location**
**Cortese Landfill Site**
**Narrowsburg, New York**

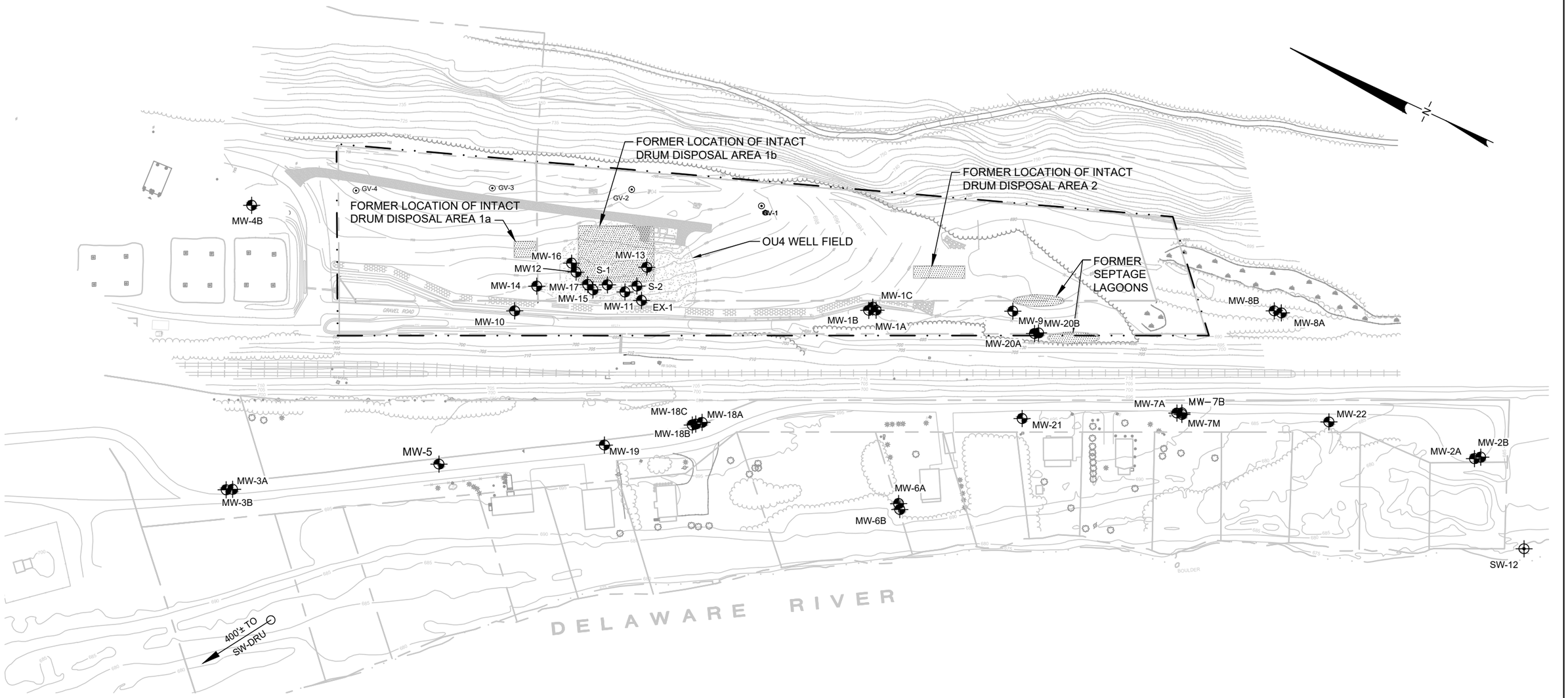
Notes
USGS 7.5' Topographic Quadrangle Narrowsburg, New York

Geosyntec consultants

**Columbia, Maryland** | **April 2026**

**Figure 1-1**

P:\GIS\MR0562\SiteLocationMap.mxd; ak.an; 20-apr-2010, MR0562




LEGEND

- PROPERTY BOUNDARIES
- APPROXIMATE EDGE OF DELAWARE RIVER
- FENCE
- LANDFILL COVER ELEVATION CONTOUR
- PRE-EXISTING TOPOGRAPHY ELEVATION CONTOUR
- GV-1 PASSIVE GAS VENT
- MONITORING WELL
- SW-DRU SURFACE WATER SAMPLE POINT
- SITE BOUNDARY

NOTES:

1. MONITORING WELL LOCATIONS AND REFERENCE ELEVATIONS FOR WELLS INSTALLED PRIOR TO DECEMBER 2010 WERE PROVIDED BY THEW ASSOCIATES, P.E., L.S., PLLC IN DECEMBER 2010. MONITORING WELLS INSTALLED AFTER DECEMBER 2010 WERE SURVEYED BY FISHER ASSOCIATES IN FEBRUARY 2013.

150 75 0 150

SCALE: 1" = 150'

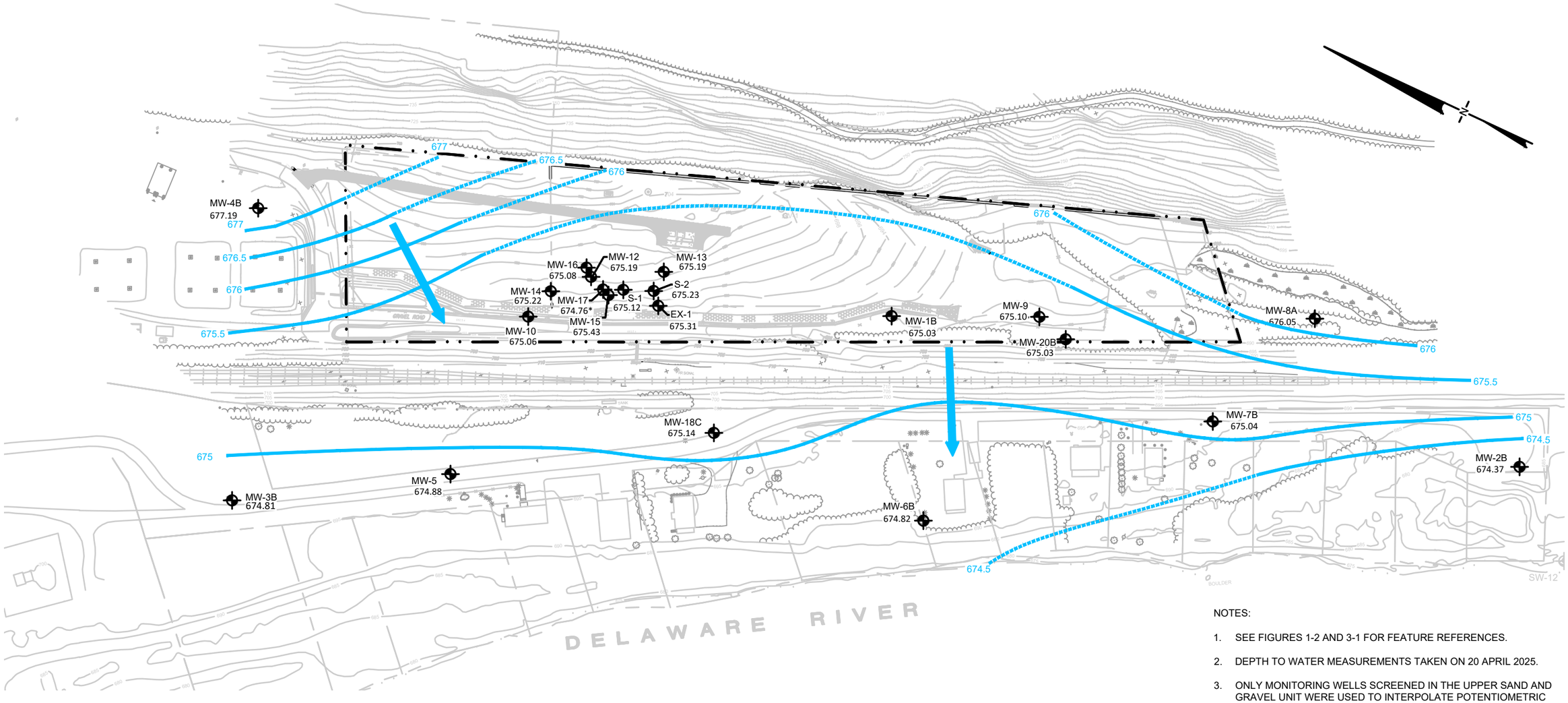
# SITE PLAN

CORTESE LANDFILL SITE
NARROWSBURG, NEW YORK

Geosyntec consultants
COLUMBIA, MARYLAND

| | |
|---|---|
| DATE: | APRIL 2026 |
| PROJECT NO. | MR0562T |
| DOCUMENT NO. | MD26007 |
| FILE NO. | MR0562T-1-2 |
| FIGURE NO. | 1-2 |

P:\CADD\0562-CORTESE\05621800\MR0562O-1-2




LEGEND

- LANDFILL PROPERTY BOUNDARY
- APPROXIMATE EDGE OF DELAWARE RIVER
- FENCE
- LANDFILL COVER ELEVATION CONTOUR
- PRE-EXISTING TOPOGRAPHY ELEVATION CONTOUR
- 675.43 — GROUNDWATER TABLE ELEVATION (FEET-MSL) (NOTE 2)
- GROUNDWATER ELEVATION CONTOUR (FEET-MSL)
- ESTIMATE GROUNDWATER ELEVATION CONTOUR (FEET-MSL)
- PREDOMINANT DIRECTION OF SHALLOW GROUNDWATER FLOW
- SITE BOUNDARY

NOTES:

1. SEE FIGURES 1-2 AND 3-1 FOR FEATURE REFERENCES.
2. DEPTH TO WATER MEASUREMENTS TAKEN ON 20 APRIL 2025.
3. ONLY MONITORING WELLS SCREENED IN THE UPPER SAND AND GRAVEL UNIT WERE USED TO INTERPOLATE POTENTIOMETRIC CONTOURS
4. *=SUSPECTED ERRONEOUS VALUE NOT USED IN INTERPOLATION.

150 75 0 150

SCALE: 1" = 150'

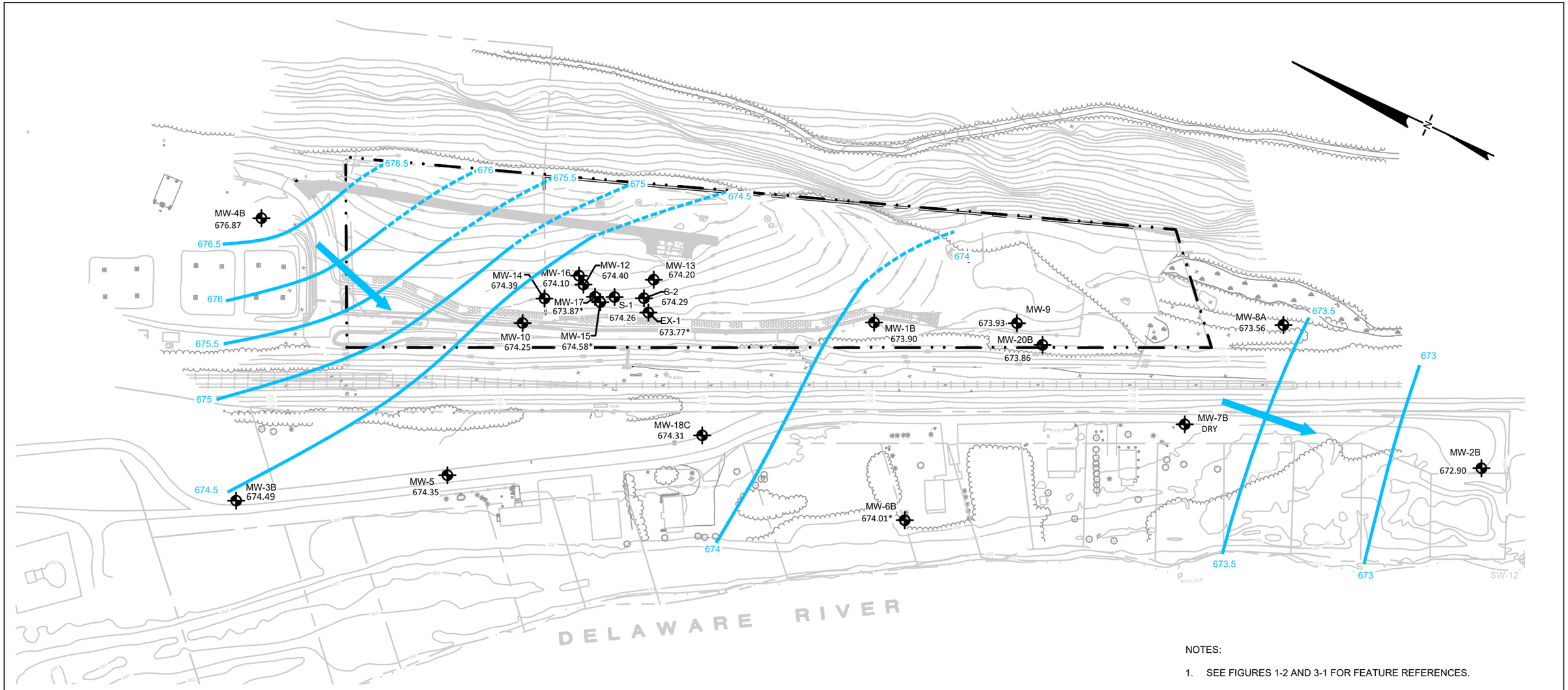
# GROUNDWATER TABLE ELEVATION - APRIL 2025

CORTESE LANDFILL SITE
NARROWSBURG, NEW YORK

Geosyntec consultants
COLUMBIA, MARYLAND

| | |
|---|---|
| DATE: | APRIL 2026 |
| PROJECT NO. | MR0562T |
| DOCUMENT NO. | MD26007 |
| FILE NO. | MR0562R-MD26007 |
| FIGURE NO. | 3-2 |

P:\CADD\0562-CORTESE\05621800\MR0562R-MD26007, Layout: 3-2




LEGEND

- LANDFILL PROPERTY BOUNDARY
- APPROXIMATE EDGE OF DELAWARE RIVER
- FENCE
- LANDFILL COVER ELEVATION CONTOUR
- PRE-EXISTING TOPOGRAPHY ELEVATION CONTOUR
- 674.31 GROUNDWATER TABLE ELEVATION (FEET-MSL) (NOTE 2)
- GROUNDWATER ELEVATION CONTOUR (FEET-MSL)
- ESTIMATE GROUNDWATER ELEVATION CONTOUR (FEET-MSL)
- PREDOMINANT DIRECTION OF SHALLOW GROUNDWATER FLOW
- SITE BOUNDARY

NOTES:

1. SEE FIGURES 1-2 AND 3-1 FOR FEATURE REFERENCES.
2. DEPTH TO WATER MEASUREMENTS TAKEN ON 30 JULY 2025.
3. ONLY MONITORING WELLS SCREENED IN THE UPPER SAND AND GRAVEL UNIT WERE USED TO INTERPOLATE POTENTIOMETRIC CONTOURS
4. *=SUSPECTED ERRONEOUS VALUE NOT USED IN INTERPOLATION.

150 75 0 150

SCALE: 1" = 150'

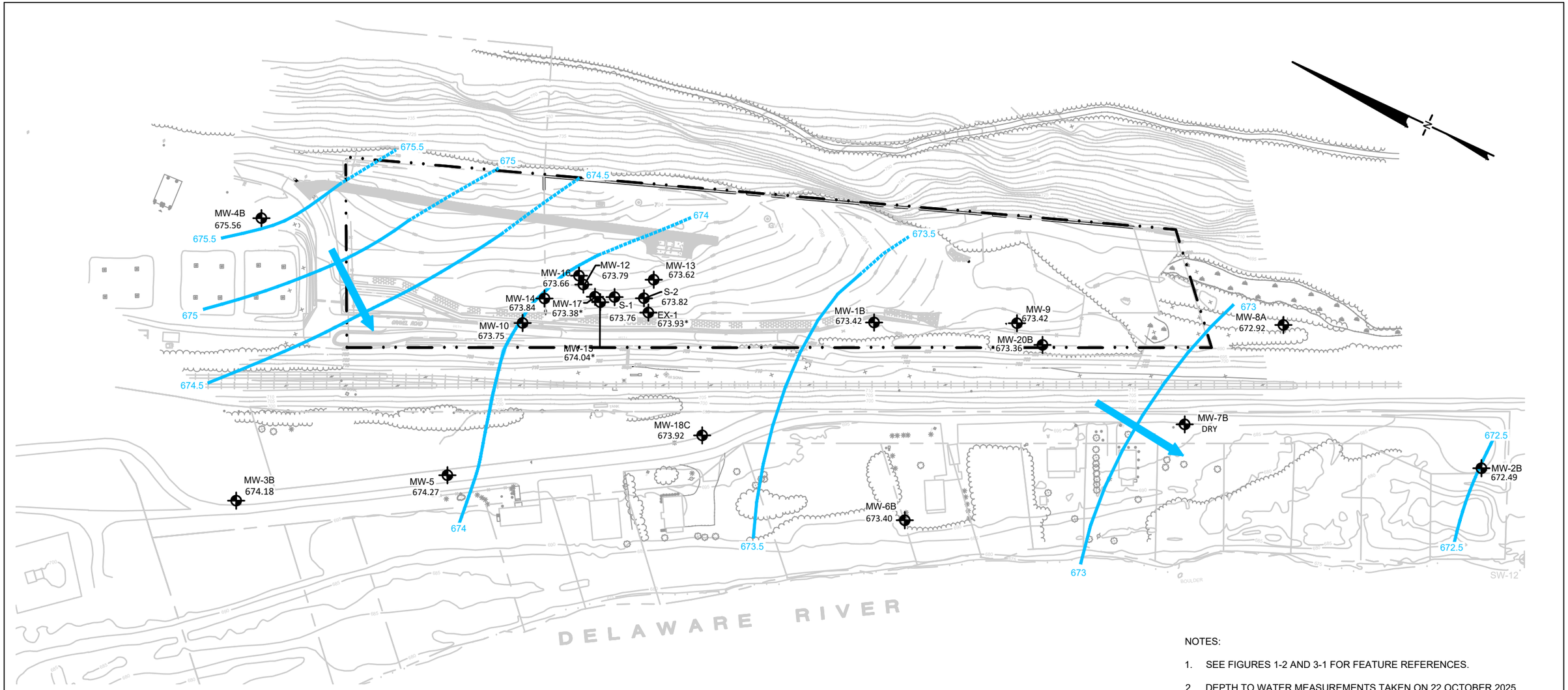
# GROUNDWATER TABLE ELEVATION - JULY 2025

CORTESE LANDFILL SITE
NARROWSBURG, NEW YORK

Geosyntec consultants
COLUMBIA, MARYLAND

| | |
|---|---|
| DATE: | APRIL 2026 |
| PROJECT NO. | MR0562T |
| DOCUMENT NO. | MD26007 |
| FILE NO. | MR0562R-MD26007 |
| FIGURE NO. | 3-3 |

P:\CADD\0562-CORTESE\05621800\MR0562R-MD26007, Layout: 3-3




LEGEND

- LANDFILL PROPERTY BOUNDARY
- APPROXIMATE EDGE OF DELAWARE RIVER
- FENCE
- LANDFILL COVER ELEVATION CONTOUR
- PRE-EXISTING TOPOGRAPHY ELEVATION CONTOUR
- 673.92 GROUNDWATER TABLE ELEVATION (FEET-MSL) (NOTE 2)
- GROUNDWATER ELEVATION CONTOUR (FEET-MSL)
- ESTIMATE GROUNDWATER ELEVATION CONTOUR (FEET-MSL)
- PREDOMINANT DIRECTION OF SHALLOW GROUNDWATER FLOW
- SITE BOUNDARY

NOTES:

1. SEE FIGURES 1-2 AND 3-1 FOR FEATURE REFERENCES.
2. DEPTH TO WATER MEASUREMENTS TAKEN ON 22 OCTOBER 2025.
3. ONLY MONITORING WELLS SCREENED IN THE UPPER SAND AND GRAVEL UNIT WERE USED TO INTERPOLATE POTENTIOMETRIC CONTOURS.
4. *= SUSPECTED ERRONEOUS VALUE NOT USED IN INTERPOLATION.

150 75 0 150

SCALE: 1" = 150'

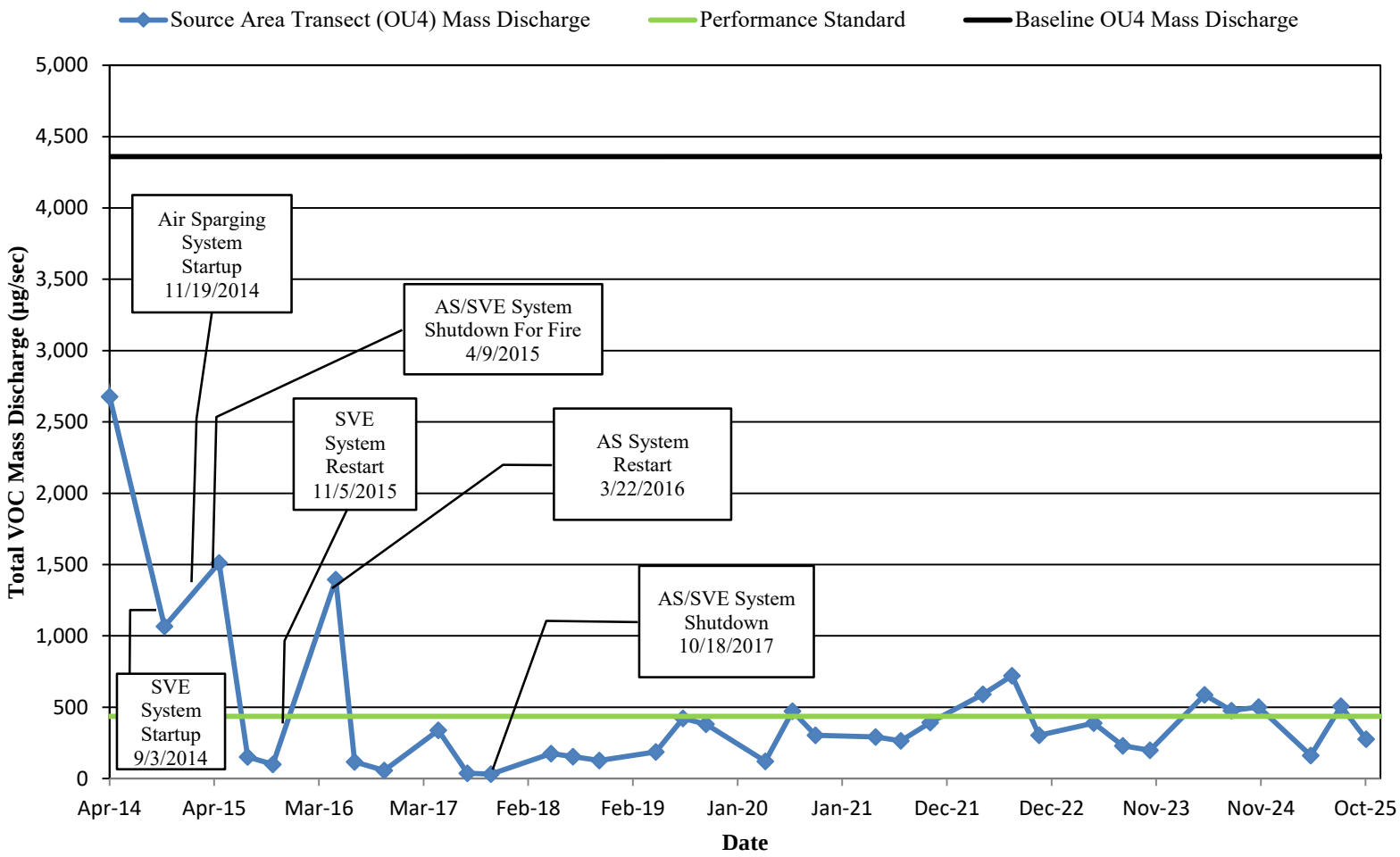
# GROUNDWATER TABLE ELEVATION - OCTOBER 2025

CORTESE LANDFILL SITE
NARROWSBURG, NEW YORK

Geosyntec consultants
COLUMBIA, MARYLAND

| | |
|---|---|
| DATE: | APRIL 2026 |
| PROJECT NO. | MR0562T |
| DOCUMENT NO. | MD26007 |
| FILE NO. | MR0562R-MD26007 |
| FIGURE NO. | 3-4 |

P:\CADD\0562-CORTESE\05621800MR0562R-MD26007, Layout: 3-4




Notes:
Performance Standard = 90% reduction in total VOC baseline mass discharge
Mass dicharge calculation details are provided in Appendix C
µg/sec - micrograms per sec

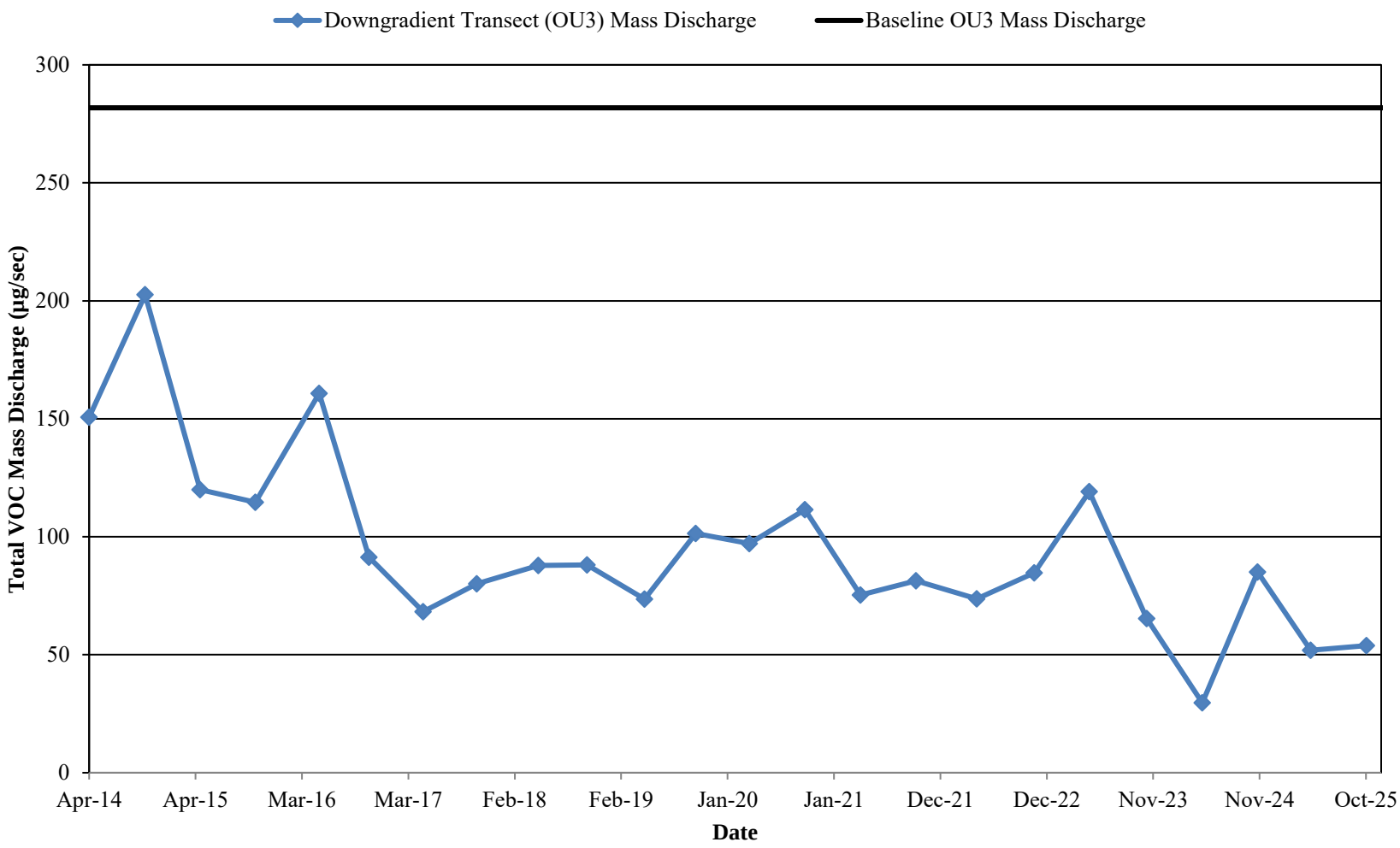
Time Trend Graph of OU4 Total VOC Mass Discharge
Cortese Landfill Site
Narrowsburg, New York

Geosyntec consultants

Columbia, Maryland | April 2026

Figure 3-5

P:\PR\11 Mdrem\PROJECTS\MR0562 Cortese NPL Site\Environmental Monitoring\2025\2025 O&M Report\Tables\[Table 3-10 OU4 Mass Discharge.xlsx]Table 3-10 Summary




Notes:
µg/sec - micrograms per second
Mass discharge calculation details are provided in Appendix C

Time Trend Graph of OU3 Total VOC Mass Discharge
Cortese Landfill Site
Narrowsburg, New York

Geosyntec consultants

Columbia, Maryland | April 2026

Figure 3-6

P:\PRJ11 Mdrem \PROJECTS \MR0562 Cortese NPL Site \Environmental Monitoring \2025 \2025 O&M Report \Tables \[Table 3-11 OU3 Mass Discharge.xlsx]Historical_Summary (2)

# APPENDIX A

# SUPPLEMENTAL INFORMATION

# APPENDIX A.1

# TERRA NOVA FIELD FORMS

TERRA NOVA

TECHNICAL CORPORATION

**May 29, 2025**

Mr. Ted Wilson
Geosyntec Consultants, Inc.
10211 Wincopin Circle 4th Floor
Columbia, MD 21044

Dear Adam:

Enclosed you will find a copy of the field sampling tables, well inspection forms, and chain of custody forms for the groundwater sampling of eighteen (18) wells. Terra Nova Technical conducted this sampling event on April 20th, 21st, and 22nd, 2025 at the Cortese Landfill site.

Should you have any questions, please do not hesitate to call me at the number below.

Sincerely,
Terra Nova Technical

Albert A. Pleva, President

Enclosures

Adam Gray

# GROUNDWATER SAMPLING REPORT

OF

## CORTESE LANDFILL

Narrowsburg, NY

Sampling
Conducted on April 20, 21 and 22, 2025

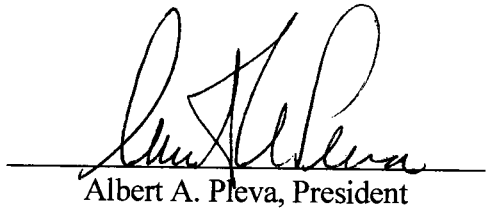
***Prepared for:***

Geosyntec Consultants, Inc.
10211 Wincopin Circle 4th Floor
Columbia, MD 21044

***Prepared by:***

Terra Nova Technical
P.O. Box 657
Allentown, NJ 08501

May 2025



Albert A. Pleva, President

## ***Introduction***

Mike Pleva and Albert A. Pleva of Terra Nova Technical conducted the groundwater sampling of the eighteen (18) wells at the Cortese Landfill, Narrowsburg New York. This sampling event took place on April 20th, 21st, and 22nd, 2025. All sampling was conducted in accordance with the Consent Decree, the SOW and the Geosyntec Letter of Authorization dated April 29, 2008. All sampling went well with no problems to report. On April 20 the weather was sunny, wind 0-5 MPH and temperatures in the 50's. The weather was mostly sunny with temperatures in the 40's, wind 0-5 MPH on April 21. The weather on April 22 was sunny with temperatures in the 50;s, wind 0-5 MPH.

## **Procedures**

### *Water Level Determinations*

Water levels and total depths were measured with a slope indicator electronic water level meter, Model 501, to the nearest 0.01-foot as measured from the top of the inner casing mark. The water level meter line was wiped with a DI water soaked paper towel as it was retracted from the well. The probe was then rinsed with DI water and paper towel dried. The well depth, the depth to water, the well diameter and the purge water calculations were noted in the field log.

The well calculations to determine one standing column were based on the following:

| Casing Diameter | Gallons/Linear Foot |
|---|---|
| 2 inches | 0.163 |
| 4 inches | 0.652 |

### *Well Evacuation*

The water standing in the well is usually not representative and should be replaced with fresh formation water. Generally, three to five volumes must be purged prior to sampling unless the well is of low yield and incapable of producing three volumes at a purge rate of 0.5 to 1.0 liters per minute.

All monitoring wells were evacuated utilizing installed QED Well Wizard groundwater monitoring bladder pumps. Compressed nitrogen was used to power the bladder pumps in both purging and sampling.

### *Purge Water Handling*

All purge water was discharged to the ground away from the well head. See field notes, attached, for well purging information.

### *Sampling*

Prior to sampling, a depth to water measurement was taken and the time recorded. If there was sufficient volume in the well, sampling proceeded. If volume was not sufficient, the well was allowed to recover; however, recovery time is not permitted beyond 24 hours. All wells sampled recovered immediately.

All monitoring wells were sampled with the dedicated Well Wizard pumps constructed of stainless steel and Teflon. The electronic controller, which can control discharge, adjusts sample flow from the pump, and refill time as well as the pressure placed on the bladder. Also, when volatiles are being sampled the pressure was lowered and the sample discharge decreased to a very slow unagitated flow approximately 100-200 ml/minute

*Field Meters*

The field meters used on this site for groundwater measurements included two YSI-556's for temp, pH, ORP, sp cond and D.O. Two La Motte 2020's were used for turbidity.

Standardization of each meter was conducted daily. For pH, ORP, turbidity, conductivity and Dissolved Oxygen, the standardization took place each morning and approximately after every three hours of operation for pH. Results of the standardization and sample results are recorded in parameter specific logbooks for each meter.

*Sample Handling*

Immediately after sample collection, the pre-labeled sample bottles were placed in coolers with bagged wet ice. The chain of custody and field log forms were completed and reviewed before sampling the next well. The sample coolers remained in our custody during the sample period. Samples were shipped via Fed Express to Eurofins Labs of Amherst, NY the next day.

All field information concerning the wells can be found in the attached tables.

*QA\QC Samples*

A duplicate sample was collected at well MW-1A and was labeled FDup-01-GW. FDup-02-GW was collected at MW-22. Also, the matrix spike volume was collected on well MW-1C, labeled MS/MSD. Trip blanks, which were provided by lab, were left unopened. No Field Blank.

**Problems or Notes:**

Product is measured by an interface probe.
Sinking Product was not measured this event.
MW-7B had insufficient volume for purging, no sample.

**Geosyntec Consultants, Inc.**
CORTESE LANDFILL SITE
NARROWSBURG, NEW YORK

**Depth to Water Measurements**
April 20, 2025

| Well ID | Depth to Water (TOC) |
|---|---|
| MW - 1A | 17.93 |
| MW-1B | 17.22 |
| MW-1C | 16.61 |
| MW - 2A | 11.97 |
| MW– 2B | 10.18 |
| MW-3A | 23.16 |
| MW-3B | 23.61 |
| MW-4B | 22.85 |
| MW-5 | 22.16 |
| MW-7A | 20.79 |
| MW-7B | 18.48 |
| MW-7M | 19.52 |
| MW-8A | 15.10 |
| MW-8B | 16.47 |
| MW-9 | 20.04 |
| MW-10 | 18.85 |
| MW-11 | 24.38 |
| MW-12 | 26.51 |
| MW-13 | 25.65 |
| MW-14 | 25.48 |
| MW-15 | 24.60 |
| MW-16 | 26.08 |
| MW-17 | 25.68 |
| S-1 | 25.32 |
| S-2 | 25.16 |
| EX-1 | 21.88 |
| MW-6A | 19.82 |
| MW-6B | 20.18 |
| MW-18A | 22.65 |
| MW-18B | 22.11 |
| MW-18C | 21.84 |
| MW-19 | 24.00 |
| MW-20A | 21.33 |
| MW-20B | 20.55 |
| MW-21 | 22.51 |
| MW-22 | 15.15 |

Form 8.41 | TERRA NOVA TECHNICAL CORP | Revised: April 2013

Field Rep: Al Pleva | Water level Meter: Slope II | PID/FID READINGS (ppm):

SITE NAME: Coltrese LF | Field Instrument ID: YSI556 (RJ) Lamotte 2020 (007)

WELL ID: MW-1A | Well Diameter (in.): 2" | Screening interval (ft): | Pump Intake (feet):

TOTAL DEPTH: 24' | Well factor (gal/ft): 0.163

PURGE METHOD: BP | SAMPLE METHOD: BP | Elev TOC: | Key#

(1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/22/25 | 18.05 | 55.9 | 6.1 | | 1009 | 0 | 10.6 | 6.75 | -9 | 165 | 1.13 | 11.0 | - | |
| | | | | | 1028 | 1V 9.1 | 10.7 | 6.73 | -14 | 160 | 0.54 | - | - | |
| | 21.22 | | | | 1047 | 2V 18.2 | 10.6 | 6.80 | -19 | 184 | 0.33 | - | | FB-01 |
| | 21.56 | | | | 1107 | 3V 27.3 | 10.6 | 6.85 | -24 | 186 | 0.27 | | - | collected here |
| | 18.91 | | | 1115 | | | 11.2 | 6.95 | -28 | 187 | 2.89 | 9.6 | | Clear No odor |

WELL CONDITION:

Lab Analysis: See COC

weather: Sunny 50's wind ~5

Signature: Al Pleva

Form 8.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

Field Rep M Pleva Water level Meter Slope IV PID/FID READINGS (ppm):

SITE NAME: Cortese Field Instrument ID YSI556AI

WELL ID: MW-1B Well Diameter (in.) 2 Screening interval (ft) Pump Intake (feet)

TOTAL DEPTH: 43.1 Well factor (gal/ft) 0.163

PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/22/25 | 17.34 | 25.76 | 4.2 | | 1026 | 0 | 11.7 | 5.30 | -33 | 336 | 5.91 | | | |
| | | | 12.6 | | 1035 | 1V 4.2 | 11.3 | 5.37 | -42 | 317 | 3.51 | | | |
| | | | | | 1044 | 2V 8.4 | 11.5 | 5.38 | -50 | 312 | 2.30 | | | |
| | 17.53 | | | | 1053 | 3V 12.6 | 11.5 | 5.37 | -54 | 311 | 2.03 | | 0.46 | |
| | 17.35 | | | 1100 | | Samp | 11.6 | 5.43 | -46 | 314 | 2.18 | 3.6 | | Clear No odor |

WELL CONDITION: Lab Analysis:

weather :

Signature

Form 8.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

Field Rep A. Plesa/M. Plesa Water level Meter Slope V PID/FID READINGS (ppm):

SITE NAME: Cortese Field Instrument ID YSI556 (AI) Lamotte 2020 (007)

WELL ID: MW-1C Well Diameter (in.) 2" Screening interval (ft) _____ Pump Intake (feet) _____

TOTAL DEPTH: 25.5 Well factor (gal/ft) 0.163

PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/22/25 | 16.70 | 8.8 | 1.4 | | 1112 | 0 | 10.5 | 5.65 | -33 | 226 | 5.06 | | | |
| | 17.17 | | | | 1115 | 1V 1.4 | 10.1 | 5.50 | -105 | 250 | 1.38 | | | MS/SD collected here |
| | 17.25 | | | | 1119 | 2V 2.8 | 10.1 | 5.45 | -109 | 271 | 1.03 | | | |
| | | | | | 1123 | 3V 4.3 | 10.1 | 5.61 | -117 | 287 | 0.84 | | 0.39 | |
| | 16.70 | | | | 1126 | 4V 5.7 | 10.1 | 5.77 | -125 | 292 | 0.72 | | | |
| | | | | 1130 | | sump | 10.2 | 5.85 | -131 | 291 | 0.78 | 5.3 | | Clear No odor |

WELL CONDITION: Lab Analysis: See COC

weather: Sunny 50s mid 5-10

Signature

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese Field Rep M Flevaris Water level Meter PID/FID READINGS (ppm):
WELL ID: MW-6A Field Instrument ID TSI556A-I
TOTAL DEPTH: 80 Well Diameter (in.) 2 Screening interval (ft) Pump Intake (feet) Slope J.
PURGE METHOD: bp SAMPLE METHOD: bp Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (6pm) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-21-25 | 19.86 | 60.14 | 7.3 | | 1311 | 0 | 11.2 | 5.03 | +23 | 355 | 1.26 | | | |
| | | | 21.4 | | 1329 | 14 9.8 | 11.3 | 4.89 | +44 | 355 | 0.72 | | | |
| | | | | | 1347 | 21 19.6 | 11.3 | 4.88 | +57 | 355 | 0.70 | 3.0 | 0.56 | |
| | 19.94 | | | | 1403 | 28 26.4 | 11.3 | 4.87 | +64 | 357 | 0.69 | | | |
| | 19.87 | | | 1405 | | samp | 11.3 | 4.70 | +78 | 361 | 0.73 | 2.2 | | Clear No odor |

WELL CONDITION: Lab Analysis:

weather :

Signature

Form 8.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese
WELL ID: MW-6B
TOTAL DEPTH: 31.9
PURGE METHOD: bp
Field Rep M Plevin
Field Instrument ID YSI556MPS
Well Diameter (in.) 2
Well factor (gal/ft) 0.163
SAMPLE METHOD: bp
Water level Meter Slope I
PID/FID READINGS (ppm):
Screening interval (ft)
Pump Intake (feet)
Elev TOC:
Key#
(1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-21-25 | 20.25 | 11.65 | 1.9 | | 1245 | 0 | 11.3 | 5.93 | +35 | 208 | 7.77 | | | |
| | | | 5.7 | | 1252 | 1V 1.9 | 11.4 | 5.89 | +28 | 217 | 6.84 | | | |
| | | | | | 1259 | 2V 3.8 | 11.5 | 5.88 | +19 | 238 | 6.42 | | | |
| | 22.33 | | | | 1306 | 3V 5.7 | 11.5 | 5.97 | +11 | 247 | 6.03 | | 0.27 | |
| | 20.61 | | | 1310 | | sump | 11.5 | 5.97 | +9 | 260 | 6.61 | 6.8 | | Clear No odor |

WELL CONDITION:
Lab Analysis:

weather :

Signature

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

Field Rep M Pleva Water level Meter Slope U PID/FID READINGS (ppm):

SITE NAME: Cortese
Field Instrument ID YSI556MPS

WELL ID: MW-7A Well Diameter (in.) 2 Screening interval (ft) Pump Intake (feet)

TOTAL DEPTH: 102 Well factor (gal/ft) 0.163

PURGE METHOD: bp SAMPLE METHOD: bp Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (1) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-21-25 | 20.95 | 81.05 | 13.2 | | 0956 | 0 | 9.5 | 5.78 | +55 | 81 | 6.09 | | | |
| | 21.26 | | 39.6 | | 1020 | 1V 13.2 | 9.6 | 5.80 | +47 | 77 | 6.27 | | | |
| | 21.42 | | | | 1045 | 2V 26.4 | 9.6 | 5.79 | +49 | 77 | 6.24 | | 0.54 | |
| | 21.63 | | | | 1110 | 3V 39.6 | 9.6 | 5.81 | +48 | 77 | 6.26 | | | Clear No odor |
| | 20.95 | | | 1115 | | Samp | 9.6 | 5.38 | +45 | 79 | 6.33 | 2.3 | | |

WELL CONDITION: Lab Analysis:

weather: cloudy 50 5-10 mph

Signature

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese LF Field Rep M Ricci Water level Meter slope II PID/FID READINGS (ppm):
Field Instrument ID YSI556AI
WELL ID: MW-7M Well Diameter (in.) 2 Screening interval (ft) Pump Intake (feet)
TOTAL DEPTH: 60.13 Well factor (gal/ft) 0.163
PURGE METHOD: sp SAMPLE METHOD: sp Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/21/25 | 19.53 | 42.77 | 7 | | 0856 | 0 | 9.5 | 5.76 | +84 | 178 | 7.59 | | | |
| | 27.11 | | 20.9 | | 0912 | 10 7 | 9.5 | 5.38 | +88 | 165 | 1.90 | | | |
| | 27.49 | | | | 0928 | 20 14 | 9.5 | 5.59 | +63 | 167 | 1.18 | | | |
| | 27.73 | | | | 0945 | 30 21 | 9.5 | 5.77 | +39 | 167 | 0.79 | | 0.43 | Clear |
| | 2.02 | | | 0952 | | samp | 9.5 | 5.85 | +30 | 168 | 2.83 | 1.9 | | no odor |

WELL CONDITION: Lab Analysis:

weather: cloudy 50s 0-5 mph

Signature

Form 8.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese LF Field Rep M Plena Water level Meter Slope II PID/FID READINGS (ppm):
WELL ID: MW-10 Field Instrument ID YSI556 (AJ) Lamotte 2020 (007)
TOTAL DEPTH: 29.2 Well Diameter (in.) 2" Screening interval (ft) _____ Pump Intake (feet) _____
PURGE METHOD: BP Well factor (gal/ft) 0.163 SAMPLE METHOD: BP Elev TOC: Key# 536 (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/21/25 | 18.86 | 10.3 | 1.7 | | 1035 | 0 | 11.0 | 5.36 | +37 | 354 | 2.37 | 23 | | |
| | | | | | 1040 | 1v 1.7 | 10.1 | 5.25 | +26 | 376 | 0.82 | — | | |
| | 18.95 | | | | 1045 | 2v 3.4 | 10.1 | 5.22 | +17 | 390 | 0.54 | — | 0.3 | |
| | 18.96 | | | | 1050 | 3v 5.1 | 10.2 | 5.24 | +13 | 393 | 0.50 | 16 | | |
| | 18.88 | | | 1100 | | | 10.4 | 5.28 | +9 | 395 | 0.50 | 14 | | Clear No odor |

WELL CONDITION: Lab Analysis:

weather: Cloudy 40s wind ~5

Signature

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

Field Rep Al Plaia Water level Meter Slope II PID/FID READINGS (ppm):

SITE NAME: Cortese LF Field Instrument ID YSI556 (A5) Lamotte 2020 (007)

WELL ID: MW-11 Well Diameter (in.) 2" Screening interval (ft) _____ Pump Intake (feet) _____

TOTAL DEPTH: 72.5 Well factor (gal/ft) 0.163

PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/21/25 | 24.42 | 48.1 | 7.8 | | 0859 | 0 | 11.4 | 6.95 | -25 | 138 | 2.58 | 9.4 | — | |
| | | | | | 0917 | 1v 7.8 | 11.3 | 6.75 | -21 | 146 | 1.26 | — | — | |
| | 49.52 | | | | 0937 | 2v 15.6 | 11.3 | 6.79 | -24 | 154 | 0.98 | — | | |
| | 57.90 | | | | 1002 | 3v 23.5 | 11.3 | 6.84 | -26 | 164 | 0.65 | 5.4 | 0.37 | |
| | 62.72 | | | 1010 | | | 11.1 | 6.90 | -26 | 164 | 0.55 | 3.9 | | Clear No odor |

WELL CONDITION: Lab Analysis: See COC

weather: Cloudy 40s Lt wind

Signature

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese LF Field Rep Al Plona Water level Meter Slope II PID/FID READINGS (ppm):

WELL ID: MW-18A Field Instrument ID YSI556 (AJ) Screening interval (ft) _____ Pump Intake (feet) _____

TOTAL DEPTH: 90.9 Well Diameter (in.) 2" Well factor (gal/ft) 0.163

PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | VoL Purged (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/21/25 | 22.72 | 68.2 | 11.1 | | 1314 | 0 | 10.9 | 6.77 | -35 | 270 | 0.30 | 3.2 | | |
| | | | | | 1336 | 1V - 11.1 | 10.9 | 7.22 | -51 | 270 | 0.15 | — | | |
| | 25.45 | | | | 1358 | 2V - 22.2 | 10.8 | 7.41 | -59 | 270 | 0.13 | — | 0.5 | |
| | 25.30 | | | | 1421 | 3V - 33.3 | 10.8 | 7.49 | -64 | 270 | 0.15 | — | | |
| | 23.08 | | | 1430 | | | 10.8 | 7.54 | -67 | 268 | 0.20 | 4.5 | | Clear No odor |

WELL CONDITION: Lab Analysis:

weather : Cloudy 40s wind ~ 5 mph

Signature

Form 8.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese LF Field Rep M. Plena Water level Meter Slope Ft PID/FID READINGS (ppm):
WELL ID: MW-18B Field Instrument ID YSI556 (AJ) Lane He 2020 (007)
TOTAL DEPTH: 53 Well Diameter (in.) 2" Screening interval (ft) Pump Intake (feet)
PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | VoL Purged (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/21/25 | 22.17 | 30.8 | 5.0 | | 1128 | 0 | 11.2 | 6.11 | +24 | 319 | 0.57 | 39 | | |
| | | | | | 1140 | 1V 5 | 11.0 | 6.20 | -7 | 300 | 0.29 | - | | |
| | 46.13 | | | | 1154 | 2V 10 | 11.0 | 6.24 | -19 | 314 | 0.34 | - | | |
| | 46.34 | | | | 1209 | 3V 15 | 11.1 | 6.32 | -48 | 342 | 0.20 | - | 0.37 | |
| | 45.13 | | | 1215 | | | 11.1 | 6.35 | -57 | 341 | 0.23 | 10 | | Clear No odor |

WELL CONDITION: Lab Analysis:

weather : Cloudy 40s wind 0-5 mph

Signature

Form S.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese LF Field Rep Al Pleus Water level Meter Slope II PID/FID READINGS (ppm):
WELL ID: MW-18C Field Instrument ID YSI 556 (AJ) Screening interval (ft) Pump Intake (feet)
TOTAL DEPTH: ~35' Well Diameter (in.) 2" Well factor (gal/ft) 0.163
PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/21/25 | 21.88 | 13.1 | 2.1 | | 1227 | 0 | 10.3 | 6.01 | -25 | 233 | 0.57 | 25 | | |
| | | | | | 1232 | 1V 2.1 | 10.3 | 5.91 | -17 | 246 | 0.66 | — | | |
| | 22.87 | | | | 1237 | 2V 4.2 | 10.3 | 5.90 | -16 | 249 | 0.47 | — | 0.43 | |
| | 22.90 | | | | 1242 | 3V 6.4 | 10.3 | 5.93 | -17 | 252 | 0.43 | — | | |
| | 22.92 | | | 1250 | | | 10.3 | 5.98 | -19 | 253 | 0.42 | 5.6 | | Clear No odor |

WELL CONDITION: Lab Analysis:

weather: Cloudy 40s wind 5 mph

Signature

Form 8.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese LF Field Rep A. Plews / M. Plews Water level Meter Slope V PID/FID READINGS (ppm):
WELL ID: MW-19 Field Instrument ID YSI556 AI
TOTAL DEPTH: 53.3 Well Diameter (in.) 2" Screening interval (ft) Pump Intake (feet)
PURGE METHOD: BP SAMPLE METHOD: Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol Purged (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/22/25 | 24.18 | 29.1 | 4.7 | | 1205 | 0 | 12.1 | 6.12 | +27 | 258 | 5.44 | 3.6 | | |
| | | | | | 1215 | 4.7 | 11.6 | 6.00 | -3 | 280 | 1.10 | | | |
| | | | | | 1226 | 9.5 | 11.7 | 5.96 | -23 | 279 | 0.73 | | | |
| | 24.54 | | | | 1237 | 14.2 | 11.7 | 5.98 | -30 | 278 | 0.68 | | 0.44 | |
| | 24.28 | | | 1240 | | Samp | 11.6 | 6.01 | -38 | 278 | 0.74 | 2.5 | | clear No odor |

WELL CONDITION: Lab Analysis: See CoC

weather :

Signature

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

Field Rep A. PLeVA Water level Meter Slope II PID/FID READINGS (ppm):

SITE NAME: Cortese LF Field Instrument ID YSI556(A5) Lamotte 2020(07)

WELL ID: MW-20A Well Diameter (in.) 2" Screening interval (ft) _____ Pump Intake (feet) _____

TOTAL DEPTH: 66.0 Well factor (gal/ft) 0.163

PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# 0536 (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (LPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/20/25 | 21.33 | 44.7 | 7.3 | | 0919 | @ | 9.5 | 6.50 | -3 | 264 | 1.77 | 10.2 | - | |
| | | | | | 0936 | Hr 7.3 | 9.4 | 5.88 | 0 | 260 | 0.71 | - | - | |
| | 31.90 | | | | 0946 | 2V 14.6 | 9.4 | 5.87 | -12 | 229 | 0.46 | - | 0.4 | |
| | 31.80 | | | | 1006 | 3V 21.9 | 9.3 | 5.70 | -13 | 217 | 0.40 | 13 | | |
| | 22.60 | | | 1015 | | | 9.3 | 5.68 | -13 | 221 | 0.36 | 12 | | Clear No odor |

WELL CONDITION: Lab Analysis: See COC

weather : Sunny 40° wind W 5

Signature

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

Field Rep Al Plena Water level Meter Slope II PID/FID READINGS (ppm):

SITE NAME: Cortese CF Field Instrument ID YSI 556 (AT) Lamotte 2020 (007)

WELL ID: MW-20B Well Diameter (in.) 2" Screening interval (ft) _____ Pump Intake (feet) _____

TOTAL DEPTH: 34.5 Well factor (gal/ft) 0.163

PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# 0536 (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/20/25 | 20.55 | 13.95 | 2.3 | | 1026 | 0 | — | — | — | — | — | — | — | |
| | | | | | 1031 | 1V 2.3 | 9.2 | 5.77 | +4 | 155 | 0.24 | 8.8 | - | |
| | 20.55 | | | | 1036 | 2V 4.5 | 9.3 | 5.81 | -2 | 153 | 0.18 | - | | |
| | 20.55 | | | | 1041 | 3V 6.8 | 9.2 | 5.84 | -8 | 151 | 0.17 | - | 0.45 | clear |
| | 20.53 | | | 1050 | | | 9.2 | 5.87 | -12 | 151 | 0.19 | 8.6 | | No odor |

WELL CONDITION: Lab Analysis: See COC

weather: Sunny 40s and 50s

Signature

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

Field Rep N. Rea Water level Meter slope I PID/FID READINGS (ppm):

SITE NAME: Cortese Field Instrument ID YSI556 MPS

WELL ID: MW-2 Well Diameter (in.) 2 Screening interval (ft) _____ Pump Intake (feet) _____

TOTAL DEPTH: 61.8 Well factor (gal/ft) 0.163

PURGE METHOD: bp SAMPLE METHOD: bp Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-21-25 | 22.58 | 6.9 | | | 1138 | 0- 1 | 10.9 | 5.97 | +91 | 292 | 1.33 | 4.3 | | |
| | 23.91 | 20.6 | | | 1153 | 1v 6.9 | 10.8 | 5.84 | +72 | 294 | 1.25 | | | |
| | 25.39 | | | | 1208 | 2v 13.7 | 10.8 | 6.09 | +25 | 295 | 1.06 | | 0.46 | |
| | 27.91 | | | | 1223 | 3v 20.6 | 10.8 | 6.12 | +15 | 296 | 0.65 | 8.9 | | |
| | 22.84 | | | 1230 | | surf | 10.8 | 6.13 | +12 | 296 | 0.77 | | | Clear No odor |

WELL CONDITION: Lab Analysis:

weather : _____

Signature _____

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese LF Field Rep Al Plena Water level Meter Slope II PID/FID READINGS (ppm):
WELL ID: MW-22 Field Instrument ID YSI556 (AJ) Screening interval (ft) Pump Intake (feet)
TOTAL DEPTH: 52.9 Well Diameter (in.) 2" Well factor (gal/ft)
PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol Purged (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/20/25 | 16.15 | 37.75 | 6.2 | | 1322 | 0 | 9.2 | 5.96 | -7 | 146 | 2.95 | 12.0 | | |
| | | | | | 1340 | 1v 6.2 | 9.2 | 6.01 | -16 | 154 | 0.85 | - | | |
| | 17.14 | | | | 1358 | 2v 12.3 | 9.2 | 6.05 | -17 | 154 | 0.72 | - | 0.34 | FDup02 |
| | 17.20 | | | | 1416 | 3v 18.4 | 9.2 | 6.04 | -18 | 153 | 0.81 | | | |
| | 15.93 | | | 1425 | | | 9.4 | 6.09 | -20 | 153 | 0.64 | | | |
| | | | | | | | | | | | | 18.0 | | (Haw) No odor |

WELL CONDITION: Lab Analysis: See COC

weather : Sunny 50°F wind 5 to 10

Signature

Form S.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

Field Rep Al Plesa Water level Meter Slope II PID/FID READINGS (ppm):

SITE NAME: Cortese LF Field Instrument ID YSI556 (AJ) Lamotte 2020 (007)

WELL ID: EX-1 Well Diameter (in.) 4" Screening interval (ft) _____ Pump Intake (feet) _____

TOTAL DEPTH: 32.4 Well factor (gal/ft) 0.652

PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol Purged (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/20/25 | 21.88 | 10.5 | 6.8 | | 1135 | 0 | 11.7 | 6.26 | -23 | 328 | 0.78 | 30 | — | |
| | | | | | 1159 | 1v 6.8 | 11.7 | 6.32 | -47 | 289 | 0.22 | — | — | |
| | 22.59 | | | | 1224 | 2v 13.7 | 11.7 | 6.35 | -52 | 284 | 0.17 | — | | |
| | 22.65 | | | | 1250 | 3v 20.5 | 11.8 | 6.34 | -54 | 281 | 0.19 | | 0.27 | |
| | 21.84 | | | 1300 | | | 11.9 | 6.36 | -46 | 281 | 0.25 | 11 | | Cloudy Strong Od. |

WELL CONDITION: Lab Analysis: See COC

weather: Sunny 40s wind 10-20

Signature Al Plesa

TERRA NOVA

TECHNICAL CORPORATION

**August 22, 2025**

Mr. Ted Wilson
Geosyntec Consultants, Inc.
10211 Wincopin Circle 4th Floor
Columbia, MD 21044

Dear Adam:

Enclosed you will find a copy of the field sampling tables, well inspection forms, and chain of custody forms for the groundwater sampling of four (4) wells. Terra Nova Technical conducted this sampling event on July 30th, 2025 at the Cortese Landfill site.

Should you have any questions, please do not hesitate to call me at the number below.

Sincerely,
Terra Nova Technical

Albert A. Pleva, President

Enclosures

Adam Gray

P.O. Box 657·Allentown, New Jersey 08501·PHONE 609-259-0020·FAX 609-259-3567

# GROUNDWATER SAMPLING REPORT

OF

## CORTESE LANDFILL

Narrowsburg, NY

Sampling
Conducted on July 30, 2025

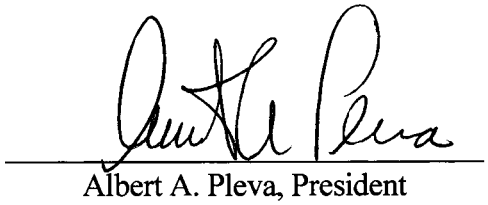
***Prepared for:***

Geosyntec Consultants, Inc.
10211 Wincopin Circle 4th Floor
Columbia, MD 21044

***Prepared by:***

Terra Nova Technical
P.O. Box 657
Allentown, NJ 08501

August 2025



Albert A. Pleva, President

## ***Introduction***

Mike Pleva and Albert A. Pleva of Terra Nova Technical conducted the groundwater sampling of the four(4) wells at the Cortese Landfill, Narrowsburg New York. This sampling event took place on July 30th, 2025. All sampling was conducted in accordance with the Consent Decree, the SOW and the Geosyntec Letter of Authorization dated April 29, 2008. All sampling went well with no problems to report. The weather was sunny, wind 0-5 MPH and temperatures in the 90's.

## **Procedures**

*Water Level Determinations*

Water levels and total depths were measured with a slope indicator electronic water level meter, Model 501, to the nearest 0.01-foot as measured from the top of the inner casing mark. The water level meter line was wiped with a DI water soaked paper towel as it was retracted from the well. The probe was then rinsed with DI water and paper towel dried. The well depth, the depth to water, the well diameter and the purge water calculations were noted in the field log.

The well calculations to determine one standing column were based on the following:

| Casing Diameter | Gallons/Linear Foot |
|---|---|
| 2 inches | 0.163 |
| 4 inches | 0.652 |

*Well Evacuation*

The water standing in the well is usually not representative and should be replaced with fresh formation water. Generally, three to five volumes must be purged prior to sampling unless the well is of low yield and incapable of producing three volumes at a purge rate of 0.5 to 1.0 liters per minute.

All monitoring wells were evacuated utilizing installed QED Well Wizard groundwater monitoring bladder pumps. Compressed nitrogen was used to power the bladder pumps in both purging and sampling.

*Purge Water Handling*

All purge water was discharged to the ground away from the well head. See field notes, attached, for well purging information.

*Sampling*

Prior to sampling, a depth to water measurement was taken and the time recorded. If there was sufficient volume in the well, sampling proceeded. If volume was not sufficient, the well was allowed to recover;

however, recovery time is not permitted beyond 24 hours. All wells sampled recovered immediately.

All monitoring wells were sampled with the dedicated Well Wizard pumps constructed of stainless steel and Teflon. The electronic controller, which can control discharge, adjusts sample flow from the pump, and refill time as well as the pressure placed on the bladder. Also, when volatiles are being sampled the pressure was lowered and the sample discharge decreased to a very slow unagitated flow approximately 100-200 ml/minute

*Field Meters*

The field meters used on this site for groundwater measurements included two YSI-556's for temp, pH, ORP, sp cond and D.O. Two La Motte 2020's were used for turbidity.

Standardization of each meter was conducted daily. For pH, ORP, turbidity, conductivity and Dissolved Oxygen, the standardization took place each morning and approximately after every three hours of operation for pH. Results of the standardization and sample results are recorded in parameter specific logbooks for each meter.

*Sample Handling*

Immediately after sample collection, the pre-labeled sample bottles were placed in coolers with bagged wet ice. The chain of custody and field log forms were completed and reviewed before sampling the next well. The sample coolers remained in our custody during the sample period. Samples were shipped via Fed Express to Eurofins Labs of Amherst, NY the next day.

All field information concerning the wells can be found in the attached tables.

*QA\QC Samples*

A duplicate sample was collected at well MW-1B and was labeled FDup-01-GW. Also, the matrix spike volume was collected on well MW-1C, labeled MS/MSD. Trip blanks, which were provided by lab, were left unopened. No Field Blank.

**Problems or Notes:**

Product is measured by an interface probe.
Sinking Product was not measured this event.

**Geosyntec Consultants, Inc.**
CORTESE LANDFILL SITE
NARROWSBURG, NEW YORK

**Depth to Water Measurements**
July 30, 2025

| Well ID | Depth to Water (TOC) |
|---|---|
| MW - 1A | 18.83 |
| MW-1B | 18.35 |
| MW-1C | 17.76 |
| MW - 2A | 12.60 |
| MW– 2B | 11.65 |
| MW-3A | 23.76 |
| MW-3B | 23.93 |
| MW-4B | 23.17 |
| MW-5 | 22.69 |
| MW-7A | 21.32 |
| MW-7B | Dry |
| MW-7M | 20.36 |
| MW-8A | 17.59 |
| MW-8B | 17.26 |
| MW-9 | 21.21 |
| MW-10 | 19.66 |
| MW-11 | 25.22 |
| MW-12 | 27.30 |
| MW-13 | 26.64 |
| MW-14 | 26.31 |
| MW-15 | 25.45 |
| MW-16 | 27.06 |
| MW-17 | 26.57 |
| S-1 | 26.18 |
| S-2 | 26.10 |
| EX-1 | 23.42 |
| MW-6A | 20.34 |
| MW-6B | 20.99 |
| MW-18A | 23.21 |
| MW-18B | 22.78 |
| MW-18C | 22.67 |
| MW-19 | 24.61 |
| MW-20A | 22.18 |
| MW-20B | 21.72 |
| MW-21 | 23.25 |
| MW-22 | 16.04 |

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese LF Field Rep M Pleva/A Pleva Water level Meter Slope I PID/FID READINGS (ppm):
Field Instrument ID YSI556AI
WELL ID: MW-1B Well Diameter (in.) 2" Screening interval (ft) _____ Pump Intake (feet) _____
TOTAL DEPTH: 43.1 Well factor (gal/ft) 0.163
PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7-30-25 | 18.35 | 24.75 | 4.0 | | 1021 | 0 | 13.4 | 6.88 | +110 | 376 | 6.79 | | | + Dup |
| | 18.43 | | | | 1030 | 1V 4 | 11.6 | 4.62 | +191 | 374 | 3.01 | | | |
| | 18.47 | | | | 1039 | 2V 8 | 11.5 | 4.77 | +157 | 376 | 1.94 | | | |
| | 18.52 | | | | 1049 | 3V 12 | 11.4 | 4.74 | +150 | 376 | 1.69 | | 0.43 | |
| | | | | 1055 | | Sump | 11.5 | 5.08 | +110 | 381 | 1.78 | 2.0 | | Clear No odor |

WELL CONDITION: _____ Lab Analysis: Su Coc

weather : _____

Signature _____

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese 1F Field Rep M Pleva / A Pleva Water level Meter Slope I PID/FID READINGS (ppm):
WELL ID: MW-1C Field Instrument ID YSI556MPE
TOTAL DEPTH: 25.5 Well Diameter (in.) 2 Screening interval (ft) _____ Pump Intake (feet) _____
PURGE METHOD: bp SAMPLE METHOD: bp Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7-30-25 | 17.76 | 7.74 | 1.3 | | 1102 | 0 | 12.0 | 5.63 | +81 | 398 | 1.63 | | | +MS/SD |
| | 17.87 | | 3.9 | | 1104 | 1.3 | 11.5 | 5.64 | +80 | 423 | 0.74 | | | |
| | | | 6.4 | | 1108 | 3.9 | 11.4 | 5.76 | +69 | 428 | 0.56 | | | |
| | 17.94 | | | | 1112 | 6.4 | 11.4 | 5.83 | +62 | 430 | 0.54 | | 0.64 | |
| | 17.76 | | | 1115 | | sump | 11.4 | 5.95 | +39 | 426 | 0.69 | 10 | | clear No odor |

WELL CONDITION: Lab Analysis:

weather : _____

Signature _____

Form 8.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese LF Field Rep A. Mena Water level Meter Slope V PID/FID READINGS (ppm):
WELL ID: MW-10 Field Instrument ID YSI 556 (RE)
TOTAL DEPTH: 29.0 Well Diameter (in.) 2" Screening interval (ft) _____ Pump Intake (feet) _____
PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/30/25 | 19.66 | 9.5 | 1.6 | | 1320 | 0 | 15.7 | 5.82 | +239 | 488 | 2.11 | 52 | | |
| | | | | | 1325 | 1V 1.6 | 14.4 | 5.64 | +225 | 491 | 0.80 | | | |
| | | | | | 1330 | 2V 3.2 | 14.3 | 5.59 | -197 | 489 | 0.61 | 21 | | |
| | 19.87 | | | | 1335 | 3V 4.8 | 14.3 | 5.63 | +165 | 490 | 0.56 | | 0.32 | |
| | 19.72 | | | 1340 | | sump | 14.2 | 5.50 | +150 | 484 | 0.54 | 14 | | Clear No odor |

WELL CONDITION: Lab Analysis: Sc. GC

weather : Sunny 90s Et wind

Signature

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese Field Rep A. Plesa Water level Meter Slope II PID/FID READINGS (ppm):
WELL ID: EX-1 Field Instrument ID YSI 556 (AI) Lamotte 2020 (07)
TOTAL DEPTH: 32.4 Well Diameter (in.) 4" Screening interval (ft) _____ Pump Intake (feet) _____
PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7-30-25 | 23.42 | 9.0 | 5.8 | | 1205 | 0 | 12.2 | 6.08 | +95 | 474 | 3.30 | 10.4 | — | |
| | | | | | 1225 | 1V 5.8 | 12.0 | 5.92 | +53 | 447 | 0.87 | — | | |
| | 23.45 | | | | 1246 | 2V 11.6 | 12.0 | 6.12 | +15 | 450 | 0.33 | — | | |
| | 23.48 | | | | 1258 | 3V 17.4 | 12.0 | 6.11 | +11 | 450 | 0.32 | — | 0.33 | |
| | | | | 1310 | | | 12.0 | 6.12 | +6 | 450 | 0.32 | 9.9 | | Clear Strong |

WELL CONDITION: _____ Lab Analysis: See COC

weather : Mostly Sunny 90°F 4 mph

Signature A. Plesa

Revised September 22, 2021

# CALIBRATION SIGN OFF LOG-556

SITE Cortese Ut. DATE 7-30-25

ANALYST A. Rivas METER MAKE/MODEL YSI 556 AI

▫ **pH Calibration** Time 1000

| Initial | Temp °C | STD | Adjust | pH – mv | +- 0.05 | Recheck |
|---|---|---|---|---|---|---|
| 7.00 | 19.6 | pH 7.0 | 7.00 | 0.9 | ☒ Yes No | with different STD pH 6.86 |
| 4.23 | 19.3 | pH 4.0 | 4.01 | +172.3 | ☒ Yes ☐No | Result + 6.92 |
| | | pH 10.0 | | | ☐ Yes ☐No | +/- 0.10 ☐Yes ☐No |

**Quality Control Sample**

Recheck : STD 718
Result = 723

▫ **Sp Conductance um/cm**

| Initial | STD | Adjust | |
|---|---|---|---|
| 207 | Zero-check | NA | Conductivity Cell Constant 1.021 |
| 1393 | 1413 um/cm | 1413 | 447 +/- 4 Yes No |
| | other STD um/cm | | 718 +/- 7 (Yes) No |

▫ **D.O. Calibration**

Zero Check 0.22 (should be) <'03 mg/L
Temp °C 19.3

Current Barometric pressure 761.7 mm Hg
Current Temperature 19.3°C
9.34 Initial/ 9.23 Adjust/ _____ D.O. for table

▫ **Continuing Calibration** (3 hours)
Y N pH _7.0
Sp. Cond. 1413
D.O. SAT vapor

Temp °C 18.8 Pressure _____ Time 1315
Initial 6.95 STD 7.00 Adjust 7.00

▫ **Continuing Calibration** (6 hours)
Y N pH _7.0
Sp. Cond. 1413
D.O. SAT vapor

Temp °C _____ Pressure _____ Time _____
Initial _____ STD _____ Adjust _____

▫

NOTES/COMMENTS: _____

☐% RPD>20% (resample)

☐% RPD<20% (for grab sample)

Sanple ID:

Analyst Signature _____

## CALIBRATION SIGN OFF LOG – Lamotte 2020 CALIBRATION SIGN OFF LOG – Lamotte 2020

SITE Cortez CE DATE 7-30-25

ANALYST AL Rena METER MAKE/MODEL Lamotte 2020 (007)

☐ **Turbidity Calibration (1 point)**

| Initial reading NTU | STD value NTU | Adjusted Reading (NTU) | Recheck STD (NTU) | Un adjusted value (NTU) | Time |
|---|---|---|---|---|---|
| 0.00 | Zero-check | — | 0.00 | 0.60 | 0605 |
| 0.93 | 1.00 | 1.00 | 1.00 | 1.02 | |
| | | | | | |
| | | | | | |

| Standard Used | Range | Within Range |
|---|---|---|
| 1.0 NTU | 0.9 - 1.1 | ☒ Yes ☐ No |
| 10.0 NTU | 9.0 - 11.0 | ☐ Yes ☐ No |

☐ Note: Use the same cuvette with the meter throughout the days sampling; each cuvette has its own correction factor.

☐ Quality Control Sample

| Field Value (NTU) | Actual Value (NTU) | % Recovery |
|---|---|---|
| | | |

Notes/Comments:

Analyst Signature

# CALIBRATION SIGN OFF LOG

## Oxidation – Reduction Potential (ORP)

SITE office lab

DATE 7-29-25

ANALYST AI DIVA

METER MAKE/MODEL YSI 556 (AI)

Probe type ☐ Ag/AgCl ☒ Calomel

| TEMP in °C | Ag/AgCl (3.5M KCl) in millivolts | CALOMEL in millivolts |
|---|---|---|
| -5 | 267.1 | 232.2 |
| 0 | 259.75 | 224.0 |
| 5 | 252.4 | 215.8 |
| 10 | 245.05 | 207.6 |
| 15 | 237.7 | 199.4 |
| 20 | 230.35 | 191.2 |
| 25 | 223.0 | 183.0 |
| 30 | 215.65 | 174.8 |
| 35 | 208.3 | 166.6 |
| 40 | 200.95 | 158.4 |
| 45 | 193.6 | 150.2 |
| 50 | 186.25 | 142.0 |

+/- 1.6mv/°C

☐ ORP Calibration YSI 240mV Solution S/N 22A100490 Exp 1/27

| | Time | Initial Reading (MV) | temp°C | Result (mv) | Value mv from Table |
|---|---|---|---|---|---|
| 1. | 1700 | + 164.0 | 20.2°C | +190.9 | +190.9 |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |

☐ Instrument Check using Reducing Solution (sodium hydrosulfate/Sodium bisulfite)

| Time | Solution value (-200 to -500 mv) | Result mv |
|---|---|---|
| _____ | _____ | _____ |

NOTES/COMMENTS: _____

**Analyst Signature** _____

TERRA NOVA

TECHNICAL CORPORATION

**November 21, 2025**

Mr. Ted Wilson
Geosyntec Consultants, Inc.
10211 Wincopin Circle 4th Floor
Columbia, MD 21044

Dear Adam:

Enclosed you will find a copy of the field sampling tables, well inspection forms, and chain of custody forms for the groundwater sampling of fourteen (14) wells. Terra Nova Technical conducted this sampling event on October 22nd and 23rd, 2025 at the Cortese Landfill site.

Should you have any questions, please do not hesitate to call me at the number below.

Sincerely,
Terra Nova Technical

Albert A. Pleva, President

Enclosures

Adam Gray

P.O. Box 657·Allentown, New Jersey 08501·PHONE 609-259-0020·FAX 609-259-3567

# GROUNDWATER SAMPLING REPORT

OF

## CORTESE LANDFILL

Narrowsburg, NY

Sampling
Conducted on October 22 + 23, 2025

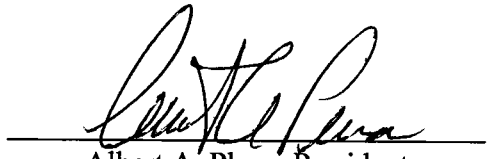
***Prepared for:***

Geosyntec Consultants, Inc.
10211 Wincopin Circle 4th Floor
Columbia, MD 21044

***Prepared by:***

Terra Nova Technical
P.O. Box 657
Allentown, NJ 08501

November 2025



Albert A. Pleva, President

## ***Introduction***

Mike Pleva and Albert A. Pleva of Terra Nova Technical conducted the groundwater sampling of the fourteen (14) wells at the Cortese Landfill, Narrowsburg New York. This sampling event took place on October 22nd and 23rd, 2025. All sampling was conducted in accordance with the Consent Decree, the SOW and the Geosyntec Letter of Authorization dated April 29, 2008. All sampling went well with no problems to report. The weather on October 22nd was partly cloudy, wind 0-5 MPH and temperatures in the 50's. The weather on October 23rd was cloudy with temperatures in the 50's, wind 0-5 MPH.

## **Procedures**

*Water Level Determinations*

Water levels and total depths were measured with a slope indicator electronic water level meter, Model 501, to the nearest 0.01-foot as measured from the top of the inner casing mark. The water level meter line was wiped with a DI water soaked paper towel as it was retracted from the well. The probe was then rinsed with DI water and paper towel dried. The well depth, the depth to water, the well diameter and the purge water calculations were noted in the field log.

The well calculations to determine one standing column were based on the following:

| Casing Diameter | Gallons/Linear Foot |
|---|---|
| 2 inches | 0.163 |
| 4 inches | 0.652 |

*Well Evacuation*

The water standing in the well is usually not representative and should be replaced with fresh formation water. Generally, three to five volumes must be purged prior to sampling unless the well is of low yield and incapable of producing three volumes at a purge rate of 0.5 to 1.0 liters per minute.

All monitoring wells were evacuated utilizing installed QED Well Wizard groundwater monitoring bladder pumps. Compressed nitrogen was used to power the bladder pumps in both purging and sampling.

*Purge Water Handling*

All purge water was discharged to the ground away from the well head. See field notes, attached, for well purging information.

*Sampling*

Prior to sampling, a depth to water measurement was taken and the time recorded. If there was sufficient

volume in the well, sampling proceeded. If volume was not sufficient, the well was allowed to recover; however, recovery time is not permitted beyond 24 hours. All wells sampled recovered immediately.

All monitoring wells were sampled with the dedicated Well Wizard pumps constructed of stainless steel and Teflon. The electronic controller, which can control discharge, adjusts sample flow from the pump, and refill time as well as the pressure placed on the bladder. Also, when volatiles are being sampled the pressure was lowered and the sample discharge decreased to a very slow unagitated flow approximately 100-200 ml/minute

*Field Meters*

The field meters used on this site for groundwater measurements included two YSI-556's for temp, pH, ORP, sp cond and D.O. Two La Motte 2020's were used for turbidity.

Standardization of each meter was conducted daily. For pH, ORP, turbidity, conductivity and Dissolved Oxygen, the standardization took place each morning and approximately after every three hours of operation for pH. Results of the standardization and sample results are recorded in parameter specific logbooks for each meter.

*Sample Handling*

Immediately after sample collection, the pre-labeled sample bottles were placed in coolers with bagged wet ice. The chain of custody and field log forms were completed and reviewed before sampling the next well. The sample coolers remained in our custody during the sample period. Samples were shipped via Fed Express to Eurofins Labs of Amherst, NY the next day.

All field information concerning the wells can be found in the attached tables.

*QA\QC Samples*

A duplicate sample was collected at well MW-1B and was labeled FDup-01-GW. A duplicate sample was collected at MW-22 labeled FDup-02-GW. Also, the matrix spike volume was collected on well MW-1C, labeled MS/MSD. A duplicate was taken at SW-12 labeled FDup-01-SW. A matrix spike was collected at SW-12 labeled MS/SD. Trip blanks, which were provided by lab, were left unopened. No Field Blank.

**Problems or Notes:**

Product is measured by an interface probe.
Sinking Product was not measured this event.

**Geosyntec Consultants, Inc.**
CORTESE LANDFILL SITE
NARROWSBURG, NEW YORK

**Depth to Water Measurements**
October 22, 2025

| Well ID | Depth to Water (TOC) |
|---|---|
| MW - 1A | 19.16 |
| MW-1B | 18.83 |
| MW-1C | 18.31 |
| MW - 2A | 12.63 |
| MW– 2B | 12.05 |
| MW-3A | 24.15 |
| MW-3B | 24.24 |
| MW-4B | 24.48 |
| MW-5 | 22.77 |
| MW-7A | 21.45 |
| MW-7B | Dry |
| MW-7M | 20.60 |
| MW-8A | 18.23 |
| MW-8B | 17.86 |
| MW-9 | 21.72 |
| MW-10 | 20.16 |
| MW-11 | 25.55 |
| MW-12 | 27.91 |
| MW-13 | 27.22 |
| MW-14 | 26.86 |
| MW-15 | 25.99 |
| MW-16 | 27.50 |
| MW-17 | 27.06 |
| S-1 | 26.68 |
| S-2 | 26.57 |
| EX-1 | 23.26 |
| MW-6A | 20.36 |
| MW-6B | 21.46 |
| MW-18A | 23.44 |
| MW-18B | 22.85 |
| MW-18C | 23.06 |
| MW-19 | 24.82 |
| MW-20A | 22.36 |
| MW-20B | 22.22 |
| MW-21 | 23.43 |
| MW-22 | 16.22 |

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese LF Field Rep M Pleva Water level Meter Slope V PID/FID READINGS (ppm):
WELL ID: MW-1B Field Instrument ID YSI 556 (AI)
TOTAL DEPTH: 43.1 Well Diameter (in.) 2" Screening interval (ft) _____ Pump Intake (feet) _____
PURGE METHOD: BP SAMPLE METHOD: BP Well factor (gal/ft) 0.163 Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/23/25 | 18.81 | 24.29 | 4.0 | | 0914 | 0 | 12.0 | 7.09 | -16 | 381 | 8.64 | | | + DUP 01 |
| | 18.90 | | | | 0923 | 1V 4 | 11.8 | 6.14 | -39 | 387 | 5.72 | 1.7 | | |
| | | | | | 0931 | 2V 8 | 11.7 | 5.32 | -37 | 395 | 3.07 | | | |
| | 18.96 | | | | 0940 | 3V 12 | 11.7 | 5.27 | -41 | 398 | 2.26 | | 0.46 | |
| | 18.84 | | | 0945 | | sample | 11.7 | 5.26 | -45 | 401 | 2.52 | 1.2 | | clear No odor |

WELL CONDITION: Lab Analysis: see chain

weather : cloudy 50s 0-5 mph

Signature

Form 8.4 | TERRA NOVA TECHNICAL CORP | Revised: April 2013

SITE NAME: Cortese | Field Rep: M Pleva | Water level Meter: Slope IV | PID/FID READINGS (ppm):
WELL ID: MW-1C | Field Instrument ID: TSI556AI
TOTAL DEPTH: 25.5 | Well Diameter (in.): 2 | Screening interval (ft): | Pump Intake (feet):
PURGE METHOD: bp | Well factor (gal/ft): 0.163 | SAMPLE METHOD: bp | Elev TOC: | Key# | (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-23-25 | 18.31 | 7.19 | 1.2 | | 0951 | 0 | 12.3 | 5.41 | -29 | 406 | 2.78 | | | MS/SD |
| | | | 3.5 | | 0953 | 1U 1.2 | 12.2 | 5.50 | -56 | 443 | 2.34 | 3.9 | | |
| | | | 5.9 | | 0957 | 3U 3.5 | 12.2 | 5.69 | -63 | 458 | 2.03 | | | |
| | 18.52 | | | | 1001 | 5U 5.9 | 12.2 | 5.74 | -81 | 460 | 1.89 | | 0.59 | |
| | 18.32 | | | 1005 | | Samp | 12.2 | 5.81 | -93 | 460 | 1.98 | 3.5 | | Clear No odor |

WELL CONDITION: | Lab Analysis: see chain

weather :

Signature

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese Field Rep M Plevr Water level Meter Slope I PID/FID READINGS (ppm):
WELL ID: MW-6B Field Instrument ID YSI556AI
TOTAL DEPTH: 31.9 Well Diameter (in.) 2 Screening interval (ft) _____ Pump Intake (feet) _____
PURGE METHOD: bp SAMPLE METHOD: bp Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-22-25 | 21.46 | 10.44 | 1.7 | | 1424 | 0 | 12.9 | 5.27 | +97 | 245 | 2.82 | 24 | | |
| | | 34-5.1 | | | 1427 | 1V 1.7 | 12.8 | 5.35 | +92 | 246 | 1.78 | 16 | | |
| | 21.90 | 5V 8.5 | | | 1433 | 3V 5.1 | 12.7 | 5.24 | +78 | 249 | 1.39 | 10 | | |
| | 21.96 | | | | 1438 | 5V 8.5 | 12.8 | 5.19 | +75 | 255 | 1.22 | 8.3 | 0.61 | |
| | | | | 1440 | | samp | 12.8 | 5.25 | +71 | 255 | 1.31 | 7.6 | | Clear No odor |

WELL CONDITION: Lab Analysis: see chain

weather : pt sunny 505 5-10 mph

Signature

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese Field Rep M Pleva Water level Meter Slope-T PID/FID READINGS (ppm):
WELL ID: MW-6A Field Instrument ID YSI556AI
TOTAL DEPTH: 80 Well Diameter (in.) 2 Screening interval (ft) _____ Pump Intake (feet) _____
PURGE METHOD: bp Well factor (gal/ft) 0.163 SAMPLE METHOD: bp Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-22-25 | 20.36 | 59.64 | 9.7 | | 1316 | 0 | 11.9 | 6.15 | -2 | 359 | 3.49 | | | |
| | 20.40 | | 29.2 | | 1335 | 1U 9.7 | 11.4 | 5.23 | +69 | 361 | 2.72 | | | |
| | | | | | 1354 | 2U 19.5 | 11.5 | 5.19 | +79 | 372 | 2.44 | 6.3 | | |
| | 20.43 | | | | 1413 | 3U 29.2 | 11.5 | 5.09 | +82 | 365 | 1.96 | | 0.51 | |
| | 20.38 | | | 1415 | | sump | 11.5 | 4.99 | +87 | 367 | 2.11 | 3.9 | | check reader |

WELL CONDITION: Lab Analysis: see chain

weather: pt cloudy 50s 10-20 mph

Signature

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese Field Rep M Pleus Water level Meter Slope I PID/FID READINGS (ppm):
WELL ID: MW-7M Field Instrument ID YSI 556 AT
TOTAL DEPTH: 62.3 Well Diameter (in.) 2 Screening interval (ft) _____ Pump Intake (feet) _____
PURGE METHOD: SAMPLE METHOD: Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-22-25 | 20.60 | 41.7 | 6.8 | | 1101 | 0 | 10.0 | 5.97 | +73 | 175 | 9.17 | 4.8 | | |
| | 27.28 | | 20.4 | | 1117 | 1v 6.8 | 9.9 | 5.96 | +62 | 174 | 2.81 | | | |
| | 27.61 | | | | 1132 | 2v 13.6 | 9.8 | 6.03 | +23 | 174 | 2.23 | 4.0 | | |
| | 27.92 | | | | 1148 | 3v 20.4 | 9.8 | 6.07 | +8 | 174 | 1.79 | | 0.43 | |
| | 27.47 | | | 1150 | | sump | 9.8 | 6.09 | +6 | 175 | 1.96 | 3.7 | | check no odor |

WELL CONDITION: Lab Analysis: see chain

weather : pt sunny SOS S-10

Signature

Form 8.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese LF Field Rep Al Plesa Water level Meter Slope II PID/FID READINGS (ppm):
WELL ID: MW-10 Field Instrument ID YSI 556 (AT) Lamotte 2020 (007)
TOTAL DEPTH: 29.2 Well Diameter (in.) 2" Screening interval (ft) Pump Intake (feet) ~26-27'
PURGE METHOD: BP Well factor (gal/ft) 0.163
SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/25 | 20.16 | 9.0 | 1.5 | | 1305 | 0 | — | — | — | — | — | — | — | |
| | | | | | 1308 | 1v 1.5 | 12.3 | 6.30 | -15 | 482 | 0.90 | 6.2 | | |
| | | | | | 1315 | 3v 4.5 | 12.0 | 6.27 | -14 | 481 | 0.58 | — | | |
| | 20.38 | | | | 1322 | 5v 7.5 | 11.5 | 6.21 | -15 | 480 | 0.43 | — | 0.28 | |
| | 20.21 | | | 1330 | | | 11.4 | 6.25 | -16 | 479 | 0.42 | 3.6 | | Clear No odor |

WELL CONDITION: Lab Analysis:

weather: Partly Cloudy 50°F wind 5-10 Gusts over 20

Signature Al Plesa

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese Field Rep M Pleva Water level Meter slope IV PID/FID READINGS (ppm):
WELL ID: MW-18B Field Instrument ID YSI556AI
TOTAL DEPTH: 53 Well Diameter (in.) 2 Screening interval (ft) _____ Pump Intake (feet) _____
PURGE METHOD: bp Well factor (gal/ft) 0.163 SAMPLE METHOD: bp Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-23-25 | 22.83 | 30.17 | 4.9 | | 1056 | 0 | 11.8 | 5.84 | +33 | 344 | 4.24 | | | |
| | 39.18 | | 14.8 | | 1108 | 1V 4.9 | 11.6 | 5.95 | -72 | 365 | 2.59 | 3.0 | | |
| | 46.71 | | | | 1120 | 2V 9.8 | 11.5 | 6.02 | -91 | 370 | 1.91 | | | |
| | 46.75 | | | | 1132 | 3V 14.8 | 11.5 | 6.11 | -109 | 381 | 1.62 | | 0.41 | |
| | 45.81 | | | 1135 | | sump | 11.5 | 6.16 | -109 | 377 | 1.66 | 2.8 | | Clear Woods |

WELL CONDITION: Lab Analysis: see chain

weather : cloudy 50s 0-5

Signature

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese Field Rep Al Plesa Water level Meter Slope II PID/FID READINGS (ppm):
WELL ID: MW-18C Field Instrument ID YSI 556 (AJ) Lamotte 2020 (007)
TOTAL DEPTH: 35' Well Diameter (in.) 2" Screening interval (ft) Pump Intake (feet) ~32-33
PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/23/25 | 23.00 | 12 | 2.0 | | 1102 | 0 | 11.8 | 6.68 | -16 | 298 | 1.33 | 28 | - | |
| | | | | | 1107 | 1V 2.0 | 11.8 | 6.60 | -15 | 301 | 0.67 | - | | |
| | 23.66 | | | | 1112 | 2V 4.0 | 11.8 | 6.67 | -18 | 306 | 0.45 | - | | |
| | 23.67 | | | | 1117 | 3V 6.0 | 11.8 | 6.70 | -25 | 309 | 0.37 | - | 0.4 | |
| | 22.99 | | | 1125 | | | 11.8 | 6.7 | -24 | 310 | 0.35 | 1.8 | | Clear No odor |

WELL CONDITION: Lab Analysis: VOA/TOC/ALK/Metals/SO4

weather :

Signature

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese Field Rep M Pleva Water level Meter Slope II PID/FID READINGS (ppm):
Field Instrument ID 15556 AV
WELL ID: MW-19 Well Diameter (in.) 2" Screening interval (ft) _____ Pump Intake (feet) _____
TOTAL DEPTH: 53.3 Well factor (gal/ft) 0.163
PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal. = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/23/25 | 24.66 | 28.6 | 4.7 | | 1142 | 0 | 11.2 | 6.42 | -3 | 244 | 2.97 | - | | |
| | 24.89 | | | | 1153 | 1V 5.0 | 11.1 | 6.55 | -16 | 253 | 0.85 | 4.7 | | |
| | | | | | 1204 | 2V 10.0 | 11.0 | 6.56 | -19 | 259 | 0.51 | | 0.45 | |
| | 25.05 | | | | 1215 | 3V 15.0 | 11.0 | 6.56 | -21 | 262 | 0.43 | | | |
| | 24.76 | | | 1220 | | sump | 11.0 | 6.56 | -22 | 263 | 0.55 | 3.6 | | Clear Wood |

WELL CONDITION: Lab Analysis: see chain

weather : cloudy 50s 0-5 mph

Signature Mel Pleva

Form 8.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

Field Rep Al Plesa Water level Meter Slope II PID/FID READINGS (ppm):

SITE NAME: Cortese LF Field Instrument ID YSI556 (AJ) Lumtic 2020 (007)

WELL ID: MW-20A Well Diameter (in.) 2" Screening interval (ft) _____ Pump Intake (feet) CST. @ 63-64'

TOTAL DEPTH: 66.0 Well factor (gal/ft) 0.163

PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# 536 (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/25 | 22.36 | 43.6 | 7.1 | | 0955 | 0 | 9.4 | 6.08 | +29 | 539 | 1.95 | 8.7 | — | |
| | | | | | 1010 | 1v 7 | 9.5 | 6.25 | +1.5 | 267 | 0.45 | — | | |
| | 28.43 | | | | 1025 | 2v 14 | 9.5 | 6.08 | +1.8 | 238 | 0.49 | — | 0.47 | |
| | 28.48 | | | | 1042 | 3v 22 | 9.5 | 6.12 | -2.1 | 228 | 0.41 | | | |
| | 24.17 | | | 1050 | | Sample | 9.5 | 6.13 | -3.9 | 223 | 0.46 | 7.1 | | Clear No odor |

WELL CONDITION: _____ Lab Analysis: _____

weather : Sunny 40s wind 5-10 mph

Signature Al Plesa

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese CF Field Rep A. Plesa Water level Meter Slope II PID/FID READINGS (ppm):

WELL ID: MW-20B Field Instrument ID YSI 556 (RJ) Lamotte 2020 (OCT)

TOTAL DEPTH: 34.5 Well Diameter (in.) 2" Screening interval (ft) _____ Pump Intake (feet) est ~ 31-32

PURGE METHOD: BP Well factor (gal/ft) 0.163 SAMPLE METHOD: Grab Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/25 | 22.22 | 12.3 | 2.0 | | 1102 | 0 | 10.2 | 6.32 | -11 | 356 | 0.52 | 7.8 | | |
| | | | | | 1107 | 1 / 2.0 | 10.1 | 6.48 | -21 | 362 | 0.34 | - | | |
| | 22.24 | | | | 1115 | 3 / 6.0 | 10.1 | 6.55 | -24 | 355 | 0.26 | - | 0.48 | |
| | 22.24 | | | | 1123 | 5 / 10.0 | 10.1 | 6.58 | -25 | 353 | 0.23 | | | |
| | 22.22 | | | 1130 | | | 16.1 | 6.61 | -29 | 352 | 0.26 | 3.5 | | Clear No odor |

WELL CONDITION: Lab Analysis:

weather : Sunny 50° wind 5-10

Signature A. Plesa

Form 8.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese Field Rep M Arvia Water level Meter Slope T PID/FID READINGS (ppm):
WELL ID: MW-21 Field Instrument ID YSI556AI
TOTAL DEPTH: 64.8 Well Diameter (in.) 2 Screening interval (ft) _____ Pump Intake (feet) _____
PURGE METHOD: bp SAMPLE METHOD: bp Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-22-25 | 23.43 | 41.37 | 6.7 | | 1204 | 0 | 11.8 | 6.24 | +83 | 306 | 4.96 | 5.9 | | |
| | 24.79 | | 20.2 | | 1220 | 1v 6.7 | 11.2 | 6.18 | +49 | 312 | 2.57 | | | |
| | 26.33 | | | | 1236 | 2v 13.4 | 11.2 | 6.21 | +41 | 313 | 2.38 | 38 | | |
| | 28.06 | | | | 1252 | 3v 20.2 | 11.1 | 6.21 | +39 | 313 | 2.23 | | 0.42 | |
| | 25.49 | | | 1255 | | sump | 11.1 | 6.34 | +88 | 315 | 2.27 | 64 | | cloudy needed |

WELL CONDITION: Lab Analysis: VO

weather : PT sunny 50s 5-10 mph

Signature

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese Field Rep M Ruc Water level Meter PID/FID READINGS (ppm):
WELL ID: MW-22 Field Instrument ID YSI556AI
TOTAL DEPTH: 52.9 Well Diameter (in.) 2 Screening interval (ft) Pump Intake (feet)
PURGE METHOD: bp Well factor (gal/ft) 0.163 SAMPLE METHOD: bp Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-22-25 | 16.22 | 36.68 | 6.0 | | 0949 | 0 | 9.8 | 6.51 | +113 | 172 | 11.24 | | | + Dup 02 |
| | 17.27 | 3v | 17.9 | | 1006 | 1v 6 | 9.6 | 5.50 | +13 | 181 | 3.31 | 5.1 | | |
| | 17.33 | | | | 1023 | 2v 12 | 9.6 | 5.50 | -4 | 180 | 2.82 | | | |
| | 17.37 | | | | 1041 | 3v 18 | 9.6 | 5.49 | -14 | 179 | 2.27 | | 0.34 | |
| | 16.32 | | | 1045 | | Sample | 9.6 | 5.68 | -27 | 180 | 2.36 | 4.4 | | clear no odor |

WELL CONDITION: Lab Analysis: See coc

weather : PT SUNNY SOS 5-10 mph

Signature

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: Cortese LF Field Rep Al Plevra Water level Meter Slope II PID/FID READINGS (ppm):

WELL ID: EX-1 Field Instrument ID YSI 556 (AJ) Lanotte 2020 (007)

TOTAL DEPTH: 32.4 Well Diameter (in.) 4" Screening interval (ft) _____ Pump Intake (feet) ~ 29-30

PURGE METHOD: BP Well factor (gal/ft) 0.652 SAMPLE METHOD: Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate (GPM) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/25 | 23.26 | 9.1 | 5.9 | | 1150 | 0 | — | — | — | — | — | — | — | |
| | | | | | 1206 | 1V 6 | 11.7 | 6.84 | -51 | 520 | 0.24 | 4.3 | — | |
| | 23.30 | | | | 1223 | 2V 12 | 11.7 | 6.88 | -55 | 520 | 0.20 | — | | |
| | 23.34 | | | | 1240 | 3V 18 | 11.7 | 6.89 | -59 | 520 | 0.17 | — | 0.36 | |
| | 23.26 | | | 1245 | | | 11.7 | 6.89 | -60 | 520 | 0.20 | 3.6 | | Clear No odor |

WELL CONDITION: Lab Analysis:

weather : partly cloudy 50's and 5-10

Signature

Form 8.41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: Contese
WELL ID: DRV
TOTAL DEPTH:
PURGE METHOD:

Field Rep Al Plesa
Field Instrument ID YSI 556 (AJ)
Well Diameter (in.)
Well factor (gal/ft)
SAMPLE METHOD: Grab

Water level Meter
Screening interval (ft)
Elev TOC:

PID/FID READINGS (ppm):
Pump Intake (feet)
Key#
(1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol. Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate ( ) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~10/23/25~~ | | | | 1030 | | | 12.3 | 6.51 | + | 111 | 10.86 | 2.3 | | |

Lab Analysis: ~~16:15 NO3 SO4 Cl 6:55 Fe Mn TC FC~~

WELL CONDITION:

weather :

Signature Al Plesa

SITE NAME: Cortese 6 Field Rep M. Pena Water level Meter PID/FID READINGS (ppm):
WELL ID: SW-12 Field Instrument ID YSI 556 (RI) Screening interval (ft)
TOTAL DEPTH: Well Diameter (in.) Well factor (gal/ft) Pump Intake (feet)
PURGE METHOD: SAMPLE METHOD: Elev TOC: Key# (1 gal = 3.785 Liters)

| DATE | DTW (ft) | Col. Ht (ft) | One Vol. (gal) | Sample Time | Purge Time | Vol Purged (L) (gal) | Temp°C | pH | Orp mv | Meas Cond um/cm | D.O. (ppm) | TURB NTU | Purge Rate ( ) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/23/25 | | | | 1030 | | | 12.6 | 6.23 | +99 | 111 | 12.23 | | | |

WELL CONDITION: Lab Analysis:

weather :

Signature

# CALIBRATION SIGN OFF LOG-556

SITE Crane LF DATE 10-23-25

ANALYST A Plum METER MAKE/MODEL YSI 556 AJ

☐ **pH Calibration** Time 1645

| Initial | Temp °C | STD | Adjust | pH – mv | + - 0.05 | Recheck |
|---|---|---|---|---|---|---|
| 6.95 | 19.9 | pH 7.0 | 7.00 | | ☒ Yes ☐ No | with different STD pH 6.86 |
| 4.05 | 19.9 | pH 4.0 | 4.01 | | ☒ Yes ☐ No | Result + 6.90 |
| | | pH 10.0 | | | ☐ Yes ☐ No | +/- 0.10 ☒ Yes ☐ No |

**Quality Control Sample**

Recheck : STD 718
Result = 722

☐ **Sp Conductance um/cm**

| Initial | STD | Adjust |
|---|---|---|
| 002 | Zero-check | NA |
| 1410 | 1413 um/cm | 1413 |
| | other STD um/cm | |

Conductivity Cell Constant 1.010
447 +/- 4 Yes No
718 +/- 7 (Yes) No

☐ **D.O. Calibration** **Current Barometric pressure** _____

(should be) **Current Temperature** _____

Zero Check _____ <'03 mg/L _____Initial/_____Adjust/_____D.O. for table

Temp °C _____

☐ **Continuing Calibration** (3 hours)

Y N pH _7.0 Temp °C_____Pressure _____Time__

Sp. Cond. 1413 Initial _____STD_____Adjust_____

D.O. SAT vapor _____ _____ _____

_____ _____ _____

☐ **Continuing Calibration** (6 hours)

Y N pH _7.0 Temp °C_____Pressure _____Time_____

Sp. Cond. 1413 Initial _____STD_____Adjust_____

D.O. SAT vapor _____ _____ _____

_____ _____ _____

☐

**NOTES/COMMENTS:** _____

☐% RPD>20% (resample)

☐% RPD<20% (for grab sample)

Sanple ID:

Analyst Signature _____

# CALIBRATION SIGN OFF LOG-556

SITE Cortese 1F DATE 10-23-25

ANALYST A. Flevr METER MAKE/MODEL YSI 556 AE

☐ **pH Calibration** **Time** 0855

| Initial | Temp °C | STD | Adjust | pH – mv | +- 0.05 | Recheck |
|---|---|---|---|---|---|---|
| 7.05 | 19.8 | pH 7.0 | 7.00 | +0.8 | ☒ Yes ☐ No | with different STD pH 6.86 |
| 4.02 | 19.7 | pH 4.0 | 4.01 | +169.5 | ☒ Yes ☐ No | Result + 6.92 |
| | | pH 10.0 | | | ☐ Yes ☐ No | +/- 0.10 ☒ Yes ☐ No |

**Quality Control Sample**

Recheck : STD 718
Result = 721

☐ **Sp Conductance um/cm**

| Initial | STD | Adjust |
|---|---|---|
| 002 | Zero-check | NA |
| 1408 | 1413 um/cm | 1413 |
| | other STD um/cm | |

Conductivity Cell Constant 0.985
447 +/- 4 Yes No
718 +/- 7 (Yes) No

☐ **D.O. Calibration**

Current Barometric pressure 762.0 mm Hg
Current Temperature 19.7 °C

(should be)
Zero Check 0.24 ↓ <'03 mg/L 9.50 Initial/ 9.18 Adjust/ _____ D.O. for table
Temp °C 19.7

☐ **Continuing Calibration** (3 hours)
Y N pH _7.0
Sp. Cond. 1413
D.O. SAT vapor

Temp °C _____ Pressure _____ Time _____
Initial _____ STD _____ Adjust _____
_____ _____ _____
_____ _____ _____

☐ **Continuing Calibration** (6 hours)
Y N pH _7.0
Sp. Cond. 1413
D.O. SAT vapor

Temp °C _____ Pressure _____ Time _____
Initial _____ STD _____ Adjust _____
_____ _____ _____
_____ _____ _____

☐

**NOTES/COMMENTS:** _____

☐% RPD>20% (resample)
☐% RPD<20% (for grab sample)
Sanple ID:

Analyst Signature _____

## CALIBRATION SIGN OFF LOG – Lamotte 2020 CALIBRATION SIGN OFF LOG – Lamotte 2020

SITE Cortese CE DATE 10/23/25

ANALYST A. Plesa METER MAKE/MODEL Lamotte 2020 (007)

☐ **Turbidity Calibration (1 point)**

| Initial reading NTU | STD value NTU | Adjusted Reading (NTU) | Recheck STD (NTU) | Un adjusted value (NTU) | Time |
|---|---|---|---|---|---|
| 0.00 | Zero –check | — | Zero | 0.00 | 0610 |
| 1.05 | 1.00 | 1.00 | 1.00 | 1.06 | |
| | | | | | |
| | | | | | |

| Standard Used | Range | Within Range |
|---|---|---|
| 1.0 NTU | 0.9 - 1.1 | ☒ Yes ☐ No |
| 10.0 NTU | 9.0 - 11.0 | ☐ Yes ☐ No |

☐ Note: Use the same cuvette with the meter throughout the days sampling; each cuvette has its own correction factor

☐ Quality Control Sample

| Field Value (NTU) | Actual Value (NTU) | % Recovery |
|---|---|---|
| | | |

Notes/Comments:

Analyst Signature

Revised September 22, 2021

# CALIBRATION SIGN OFF LOG-556

SITE Cortese LF DATE 10-22-25

ANALYST A Plaza METER MAKE/MODEL YSI 556 DL

☐ **pH Calibration** Time 0940

| Initial | Temp °C | STD | Adjust | pH – mv | +- 0.05 | Recheck |
|---|---|---|---|---|---|---|
| 7.03 | 20.1 | pH 7.0 | 7.00 | +1.0 | ☒ Yes ☐ No | with different STD pH 6.86 |
| 3.98 | 19.9 | pH 4.0 | 4.01 | +169.0 | ☒ Yes ☐ No | Result + 6.91 |
| ____ | ____ | pH 10.0 | ____ | ____ | ☐ Yes ☐ No | +/- 0.10 ☒ Yes ☐ No |

**Quality Control Sample**

Recheck : STD 718
Result = 722

☐ **Sp Conductance um/cm**

| Initial | STD | Adjust |
|---|---|---|
| 002 | Zero-check | NA |
| 1430 | 1413 um/cm | 1413 |
| ____ | other STD um/cm | ____ |

Conductivity Cell Constant 0.986
447 +/- 4 ☐ Yes ☐ No
718 +/- 7 (Yes) No

☐ **D.O. Calibration**

Zero Check 0.23 (should be) <'03 mg/L
Temp °C 20.1

**Current Barometric pressure** 755.10
**Current Temperature** 20.4
9.53 Initial/ 8.97 Adjust/ ____ D.O. for table

☐ **Continuing Calibration** (3 hours)
Y N pH _7.0
Sp. Cond. 1413
D.O. SAT vapor

Temp °C 17.7 Pressure ____ Time 1250
Initial 6.97 STD 7.00 Adjust ____

☐ **Continuing Calibration** (6 hours)
Y N pH _7.0
Sp. Cond. 1413
D.O. SAT vapor

Temp °C ____ Pressure ____ Time ____
Initial ____ STD ____ Adjust ____

☐

NOTES/COMMENTS: ____

☐% RPD>20% (resample)
☐% RPD<20% (for grab sample)
Sanple ID:

Analyst Signature ____

Revised September 22, 2021

# CALIBRATION SIGN OFF LOG-556

SITE Crotone CE DATE 10-22-25

ANALYST P. Pina METER MAKE/MODEL YSI 556 MJ

☐ **pH Calibration** Time 0925

| Initial | Temp °C | STD | Adjust | pH – mv | +- 0.05 | Recheck |
|---|---|---|---|---|---|---|
| 6.90 | 19.8 | pH 7.0 | 7.00 | -4.0 | ☑ Yes ☐ No | with different STD pH 6.86 |
| 4.07 | 19.7 | pH 4.0 | 4.01 | +166.8 | ☒ Yes ☐ No | Result + 6.90 |
| ____ | ____ | pH 10.0 | ____ | ____ | ☐ Yes ☐ No | +/- 0.10 ☒ Yes ☐ No |

**Quality Control Sample**

Recheck : STD 718
Result = 721

☐ **Sp Conductance um/cm**

| Initial | STD | Adjust |
|---|---|---|
| 003 | Zero-check | NA |
| 1414 | 1413 um/cm | 1413 |
| ____ | other STD um/cm | ____ |

Conductivity Cell Constant 1.009
447 +/- 4 Yes No
718 +/- 7 (Yes) No

☐ **D.O. Calibration**

Zero Check 0.18 (should be) <'03 mg/L
Temp °C 19.8

**Current Barometric pressure** 755.10
**Current Temperature** 19.9
9.43 Initial/ 9.06 Adjust/ ____ D.O. for table

☐ **Continuing Calibration** (3 hours)
Y N pH _7.0
Sp. Cond. 1413
D.O. SAT vapor

Temp °C 17.9 Pressure ____ Time 1306
Initial 6.94 STD 7.00 Adjust 7.00

☐ **Continuing Calibration** (6 hours)
Y N pH _7.0
Sp. Cond. 1413
D.O. SAT vapor

Temp °C ____ Pressure ____ Time ____
Initial ____ STD ____ Adjust ____

☐

NOTES/COMMENTS: ____

☐% RPD>20% (resample)

☐% RPD<20% (for grab sample)

Sanple ID: ____

Analyst Signature ____

## CALIBRATION SIGN OFF LOG – Lamotte 2020 CALIBRATION SIGN OFF LOG – Lamotte 2020

SITE Office lab (Cortese CF) DATE 10-22-25

ANALYST Al Pleva METER MAKE/MODEL Lamotte 2020 (007)

☐ **Turbidity Calibration (1 point)**

| Initial reading NTU | STD value NTU | Adjusted Reading (NTU) | Recheck STD (NTU) | Un adjusted value (NTU) | Time |
|---|---|---|---|---|---|
| 0.00 | Zero-check | — | Zero | 0.00 | 0615 |
| 0.97 | 1.00 | 1.00 | 1.00 | 1.03 | |
| | | | | | |
| | | | | | |

| Standard Used | Range | Within Range |
|---|---|---|
| 1.0 NTU | 0.9 - 1.1 | ☑ Yes ☐ No |
| 10.0 NTU | 9.0 - 11.0 | ☐ Yes ☐ No |

☐ Note: Use the same cuvette with the meter throughout the days sampling; each cuvette has its own correction factor

☐ Quality Control Sample

| Field Value (NTU) | Actual Value (NTU) | % Recovery |
|---|---|---|
| | | |

Notes/Comments: _____

Analyst Signature _____

## CALIBRATION SIGN OFF LOG – Lamotte 2020 CALIBRATION SIGN OFF LOG – Lamotte 2020

SITE Cortese LE DATE 10-22-25

ANALYST AJ Plier METER MAKE/MODEL Lamotte 2020 (005)

☐ **Turbidity Calibration (1 point)**

| Initial reading NTU | STD value NTU | Adjusted Reading (NTU) | Recheck STD (NTU) | Un adjusted value (NTU) | Time |
|---|---|---|---|---|---|
| 0.00 | Zero-check | — | Zero | 0.00 | 0625 |
| 1.11 | 1.00 | 1.00 | 1.00 | 1.03 | |
| | | | | | |
| | | | | | |

| Standard Used | Range | Within Range |
|---|---|---|
| 1.0 NTU | 0.9 - 1.1 | ☒ Yes ☐ No |
| 10.0 NTU | 9.0 - 11.0 | ☐ Yes ☐ No |

☐ Note: Use the same cuvette with the meter throughout the days sampling; each cuvette has its own correction factor

☐ Quality Control Sample

| Field Value (NTU) | Actual Value (NTU) | % Recovery |
|---|---|---|
| | | |

Notes/Comments:

Analyst Signature AJ Plier

# CALIBRATION SIGN OFF LOG

## Oxidation – Reduction Potential (ORP)

SITE Office Lab

DATE 10/20/25

ANALYST AJ Plew

METER MAKE/MODEL YSI 556 (AJ)

Probe type ☐ Ag/AgCl ☒ Calomel

| TEMP in °C | Ag/AgCl (3.5M KCl) in millivolts | CALOMEL in millivolts |
|---|---|---|
| -5 | 267.1 | 232.2 |
| 0 | 259.75 | 224.0 |
| 5 | 252.4 | 215.8 |
| 10 | 245.05 | 207.6 |
| 15 | 237.7 | 199.4 |
| 20 | 230.35 | 191.2 |
| 25 | 223.0 | 183.0 |
| 30 | 215.65 | 174.8 |
| 35 | 208.3 | 166.6 |
| 40 | 200.95 | 158.4 |
| 45 | 193.6 | 150.2 |
| 50 | 186.25 | 142.0 |

+/- 1.6 mV/°C

☐ ORP Calibration Zobell Solution L/N 22A100490 Exp 1/27

| | Time | Initial Reading (MV) | temp°C | Adjusted Result (mv) | Value mv from Table |
|---|---|---|---|---|---|
| 1. | 0615 | +189.8 | 19.7 | +191.7 | +191.7 |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |

☐ Instrument Check using Reducing Solution (sodium hydrosulfate/Sodium bisulfite)

| Time | Solution value (-200 to -500 mv) | Result mv |
|---|---|---|
| | | |

NOTES/COMMENTS:

Analyst Signature AJ Plew

# CALIBRATION SIGN OFF LOG

## Oxidation – Reduction Potential (ORP)

SITE office lab

DATE 10/20/25

ANALYST M Plew

METER MAKE/MODEL YSI 556 (AI)

Probe type ☐ Ag/AgCl

☒ Calomel

| TEMP in °C | Ag/AgCl (3.5M KCl) in millivolts | CALOMEL in millivolts |
|---|---|---|
| -5 | 267.1 | 232.2 |
| 0 | 259.75 | 224.0 |
| 5 | 252.4 | 215.8 |
| 10 | 245.05 | 207.6 |
| 15 | 237.7 | 199.4 |
| 20 | 230.35 | 191.2 |
| 25 | 223.0 | 183.0 |
| 30 | 215.65 | 174.8 |
| 35 | 208.3 | 166.6 |
| 40 | 200.95 | 158.4 |
| 45 | 193.6 | 150.2 |
| 50 | 186.25 | 142.0 |

+/- 1.6 mv/°C

☐ ORP Calibration Zobell Solution opened 2-21-25 L/N 22A100490 Exp 1-27

| | Time | Initial Reading (MV) | temp°C | Adjusted Result (mv) | Value mv from Table |
|---|---|---|---|---|---|
| 1. | 1035 | +196.6 | 20.5 | +190.4 | +190.4 |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |

☐ Instrument Check using Reducing Solution (sodium hydrosulfate/Sodium bisulfite)

| Time | Solution value (-200 to -500 mv) | Result mv |
|---|---|---|
| | | |

NOTES/COMMENTS:

Analyst Signature M Plew

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR Al Fleva

MONITORING WELL NO.: MW-3A

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | ✓ | | |
| 2. Is well in a protected area ~~or in a vulnerable traffic area~~? | ✓ | | |
| 3. Is well situated outside a low point or ponded water? | ✓ | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. Is well flagged or painted? | | ✓ | |
| 6. Is well labeled inside and outside? | ✓ | | |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | | | |
| 2. Is the seal secure against the casing and ground surface? | | | |
| 3. Is the seal sloped away from the well head? | ✓ | | |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is external casing locked? | ✓ | | |
| 3. Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTOR AJ Piech

INSPECTION (Circle one): TRIMESTERLY OTHER _____

MONITORING WELL NO.: MW-3B

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | ✓ | | |
| 2. Is well in a protected area ~~of high vulnerable traffic area~~? | ✓ | | |
| 3. Is well situated outside a low point or ponded water? | ✓ | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. Is well flagged or painted? | | ✓ | |
| 6. Is well labeled inside and outside? | ✓ | | |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | | | |
| 2. Is the seal secure against the casing and ground surface? | | | |
| 3. Is the seal sloped away from the well head? | ✓ | | |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is external casing locked? | ✓ | | |
| 3. Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR A. Plesa

MONITORING WELL NO.: MW-5

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | ✓ | | |
| 2. Is well in a protected area ~~or in a vulnerable traffic area~~? | ✓ | | |
| 3. Is well situated outside a low point or ponded water? | ✓ | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. Is well flagged or painted? | | ✓ | |
| 6. Is well labeled inside and outside? | | ✓ | inside only |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. Is the seal sloped away from the well head? | ✓ | | |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is external casing locked? | ✓ | | |
| 3. Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR M Plesa

MONITORING WELL NO.: MW-19

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | X | | |
| 2. Is well in a protected area or ~~in a vulnerable traffic area~~? | X | | |
| 3. Is well situated outside a low point or ponded water? | X | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | X | | |
| 5. Is well flagged or painted? | X | | |
| 6. Is well labeled inside and outside? | | | outside only |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | X | | |
| 2. Is the seal secure against the casing and ground surface? | X | | |
| 3. Is the seal sloped away from the well head? | X | | |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | X | | |
| 2. Is external casing locked? | X | | |
| 3. Is lock in good condition (i.e., no severe rust)? | X | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | X | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | X | | |
| 2. Is casing tight horizontally/vertically/rotationally? | X | | |
| 3. Is casing free of animals/debris/kinks or bends? | X | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR M Plesa

MONITORING WELL NO.: MW-18A

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | X | | |
| 2. Is well in a protected area [illegible]? | X | | |
| 3. Is well situated outside a low point or ponded water? | X | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | X | | |
| 5. Is well flagged or painted? | | X | |
| 6. Is well labeled inside and outside? | X | | inside only |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | X | | |
| 2. Is the seal secure against the casing and ground surface? | X | | |
| 3. Is the seal sloped away from the well head? | X | | |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | X | | |
| 2. Is external casing locked? | X | | |
| 3. Is lock in good condition (i.e., no severe rust)? | X | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | X | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | X | | |
| 2. Is casing tight horizontally/vertically/rotationally? | X | | |
| 3. Is casing free of animals/debris/kinks or bends? | X | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR M Plews

MONITORING WELL NO.: MW-18B

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | X | | |
| 2. Is well in a protected area ~~or in a vulnerable traffic area~~? | X | | |
| 3. Is well situated outside a low point or ponded water? | X | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | X | | |
| 5. Is well flagged or painted? | | X | |
| 6. Is well labeled inside and outside? | X | | Inside only |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | X | | |
| 2. Is the seal secure against the casing and ground surface? | X | | |
| 3. Is the seal sloped away from the well head? | X | | |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | X | | |
| 2. Is external casing locked? | X | | |
| 3. Is lock in good condition (i.e., no severe rust)? | X | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | X | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | X | | |
| 2. Is casing tight horizontally/vertically/rotationally? | X | | |
| 3. Is casing free of animals/debris/kinks or bends? | X | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR M Plesa

MONITORING WELL NO.: MW-18C

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | X | | |
| 2. Is well in a protected area [illegible]? | X | | |
| 3. Is well situated outside a low point or ponded water? | X | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | X | | |
| 5. Is well flagged or painted? | | X | |
| 6. Is well labeled inside and outside? | | X | Inside only |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | X | | |
| 2. Is the seal secure against the casing and ground surface? | X | | |
| 3. Is the seal sloped away from the well head? | X | | |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | X | | |
| 2. Is external casing locked? | X | | |
| 3. Is lock in good condition (i.e., no severe rust)? | X | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | X | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | X | | |
| 2. Is casing tight horizontally/vertically/rotationally? | X | | |
| 3. Is casing free of animals/debris/kinks or bends? | X | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR #1 DWP

MONITORING WELL NO.: MW-6A

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | ✓ | | |
| 2. Is well in a protected area or in a vulnerable traffic area? | ✓ | | |
| 3. Is well situated outside a low point or ponded water? | ✓ | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. Is well flagged or painted? | | ✓ | Inside only |
| 6. Is well labeled inside and outside? | | ✓ | Inside only |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. Is the seal sloped away from the well head? | ✓ | | |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is external casing locked? | ✓ | | |
| 3. Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-15

INSPECTION (Circle one): (TRIMESTERLY) OTHER_____

INSPECTOR M. Plova

MONITORING WELL NO.: MW-6B

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | ✓ | | |
| 2. Is well in a protected area or in a vulnerable traffic area? | ✓ | | |
| 3. Is well situated outside a low point or ponded water? | ✓ | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. Is well flagged or painted? | | ✓ | |
| 6. Is well labeled inside and outside? | ✓ | | outside faded |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. Is the seal sloped away from the well head? | ✓ | | |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is external casing locked? | ✓ | | |
| 3. Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR AI P/MA

MONITORING WELL NO.: MW-21

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | ✓ | | |
| 2. Is well in a protected area or in a vulnerable traffic area? | ✓ | | |
| 3. Is well situated outside a low point or ponded water? | ✓ | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. Is well flagged or painted? | ✓ | | |
| 6. Is well labeled inside and outside? | ✓ | | |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. Is the seal sloped away from the well head? | ✓ | | |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is external casing locked? | ✓ | | |
| 3. Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25 INSPECTION (Circle one): ~~TRIMESTERLY~~ OTHER _____

INSPECTOR A. Plett MONITORING WELL NO.: MW-7A

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | ✓ | | |
| 2. Is well in a protected area ~~or in a vehicrable traffic area~~? | ✓ | | |
| 3. Is well situated outside a low point or ponded water? | ✓ | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. Is well flagged or painted? | | ✓ | |
| 6. Is well labeled inside and outside? | | ✓ | Inside only |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | | | Not Visible |
| 2. Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. Is the seal sloped away from the well head? | | | Not Visible |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is external casing locked? | ✓ | | |
| 3. Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| **D. Internal Casing** | ✓ | | |
| 1. Is internal casing at least 1 foot above ground? | | | |
| 2. Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR AI PLVA

MONITORING WELL NO.: MW-7B

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | ✓ | | |
| 2. Is well in a protected area ~~or in a vulnerable [illegible] area~~? | ✓ | | |
| 3. Is well situated outside a low point or ponded water? | ✓ | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. Is well flagged or painted? | | ✓ | |
| 6. Is well labeled inside and outside? | | ✓ | Inside only |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | | | Not Visible |
| 2. Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. Is the seal sloped away from the well head? | | | Not Visible |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is external casing locked? | ✓ | | |
| 3. Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): ~~TRIMESTERLY~~ OTHER _____

INSPECTOR M Phelps

MONITORING WELL NO.: MW-22

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | ✓ | | |
| 2. Is well in a protected area or in a vulnerable traffic area? | ✓ | | |
| 3. Is well situated outside a low point or ponded water? | ✓ | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. Is well flagged or painted? | ✓ | | |
| 6. Is well labeled inside and outside? | ✓ | | Inside only |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. Is the seal sloped away from the well head? | ✓ | | |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is external casing locked? | ✓ | | |
| 3. Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25 INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR AJ Plumb MONITORING WELL NO.: MW-2A

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | ✓ | | |
| 2. Is well in a protected area ~~or in a vulnerable traffic area~~? | ✓ | | |
| 3. Is well situated outside a low point or ponded water? | ✓ | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. Is well flagged or painted? | | ✓ | |
| 6. Is well labeled inside and outside? | ✓ | | |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | | | Not Visible |
| 2. Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. Is the seal sloped away from the well head? | | | Not Visible |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is external casing locked? | ✓ | | |
| 3. Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR AT Plan

MONITORING WELL NO.: MW-2B

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | ✓ | | |
| 2. Is well in a protected area or in a vulnerable traffic area? | ✓ | | |
| 3. Is well situated outside a low point or ponded water? | ✓ | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. Is well flagged or painted? | | ✓ | |
| 6. Is well labeled inside and outside? | ✓ | | |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | | | Not Visible |
| 2. Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. Is the seal sloped away from the well head? | | | Not Visible |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is external casing locked? | ✓ | | |
| 3. Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): TRIMESTERLY OTHER

INSPECTOR AL PLUTA

MONITORING WELL NO.: MW-8A

| | | YES | NO | ACTION REQUIRED |
|---|---|---|---|---|
| A. | Location/Identification | | | |
| 1. | Is well readily accessible? | ✓ | | |
| 2. | Is well in a protected area or in a vulnerable traffic area? | ✓ | | |
| 3. | Is well situated outside a low point or ponded water? | | ✓ | |
| 4. | Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. | Is well flagged or painted? | | ✓ | |
| 6. | Is well labeled inside and outside? | | ✓ | Inside only |
| B. | Surface Seal | | | |
| 1. | Is concrete surface seal in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. | Is the seal sloped away from the well head? | ✓ | | |
| C. | External Casing | | | |
| 1. | Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is external casing locked? | ✓ | | |
| 3. | Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. | Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| D. | Internal Casing | | | |
| 1. | Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. | Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. | Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER_____

INSPECTOR AL PLEVA

MONITORING WELL NO.: MW-8B

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | ✓ | | |
| 2. Is well in a protected area or in a vulnerable traffic area? | ✓ | | |
| 3. Is well situated outside a low point or ponded water? | | ✓ | |
| 4. Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. Is well flagged or painted? | | ✓ | |
| 6. Is well labeled inside and outside? | | ✓ | inside only |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. Is the seal sloped away from the well head? | ✓ | | |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. Is external casing locked? | ✓ | | |
| 3. Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): TRIMESTERLY OTHER

INSPECTOR AL Plum

MONITORING WELL NO.: MW-9

| | | YES | NO | ACTION REQUIRED |
|---|---|---|---|---|
| A. | Location/Identification | | | |
| 1. | Is well readily accessible? | ✓ | | |
| 2. | Is well in a protected area ~~or in a vulnerable traffic area~~? | ✓ | | |
| 3. | Is well situated outside a low point or ponded water? | ✓ | | |
| 4. | Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. | Is well flagged or painted? | | ✓ | |
| 6. | Is well labeled inside and outside? | | ✓ | Inside only |
| B. | Surface Seal | | | |
| 1. | Is concrete surface seal in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. | Is the seal sloped away from the well head? | ✓ | | |
| C. | External Casing | | | |
| 1. | Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is external casing locked? | ✓ | | |
| 3. | Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. | Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| D. | Internal Casing | | | |
| 1. | Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. | Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. | Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR A1 Plews

MONITORING WELL NO.: MW-20A

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | X | | |
| 2. Is well in a protected area [illegible]? | X | | |
| 3. Is well situated outside a low point or ponded water? | X | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | X | | |
| 5. Is well flagged or painted? | X | | |
| 6. Is well labeled inside and outside? | X | | |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | X | | |
| 2. Is the seal secure against the casing and ground surface? | X | | |
| 3. Is the seal sloped away from the well head? | X | | |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | X | | |
| 2. Is external casing locked? | X | | |
| 3. Is lock in good condition (i.e., no severe rust)? | X | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | X | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | X | | |
| 2. Is casing tight horizontally/vertically/rotationally? | X | | |
| 3. Is casing free of animals/debris/kinks or bends? | X | | |

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FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR M. Plus

MONITORING WELL NO.: MW-20B

| | YES | NO | ACTION REQUIRED |
|---|---|---|---|
| **A. Location/Identification** | | | |
| 1. Is well readily accessible? | X | | |
| 2. Is well in a protected area ~~or in a vehicle traffic area~~? | X | | |
| 3. Is well situated outside a low point or ponded water? | X | | |
| 4. Is well head area free of waste, stored chemicals, etc.? | X | | |
| 5. Is well flagged or painted? | X | | |
| 6. Is well labeled inside and outside? | X | | |
| **B. Surface Seal** | | | |
| 1. Is concrete surface seal in good condition (i.e., no cracks)? | X | | |
| 2. Is the seal secure against the casing and ground surface? | X | | |
| 3. Is the seal sloped away from the well head? | X | | |
| **C. External Casing** | | | |
| 1. Does well have external casing in good condition (i.e., no cracks)? | X | | |
| 2. Is external casing locked? | X | | |
| 3. Is lock in good condition (i.e., no severe rust)? | X | | |
| 4. Is casing/annulus in good condition and free of water/animals/debris? | X | | |
| **D. Internal Casing** | | | |
| 1. Is internal casing at least 1 foot above ground? | X | | |
| 2. Is casing tight horizontally/vertically/rotationally? | X | | |
| 3. Is casing free of animals/debris/kinks or bends? | X | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER

INSPECTOR AJ Plura

MONITORING WELL NO.: MW-1A

| | | YES | NO | ACTION REQUIRED |
|---|---|---|---|---|
| A. | Location/Identification | | | |
| 1. | Is well readily accessible? | ✓ | | |
| 2. | Is well in a protected area ~~or in a vulnerable traffic area~~? | ✓ | | |
| 3. | Is well situated outside a low point or ponded water? | ✓ | | |
| 4. | Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. | Is well flagged or painted? | | ✓ | |
| 6. | Is well labeled inside and outside? | | ✓ | Inside only |
| B. | Surface Seal | | | |
| 1. | Is concrete surface seal in good condition (i.e., no cracks)? | | | Not Visible |
| 2. | Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. | Is the seal sloped away from the well head? | | | Not Visible |
| C. | External Casing | | | |
| 1. | Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is external casing locked? | ✓ | | |
| 3. | Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. | Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| D. | Internal Casing | | | |
| 1. | Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. | Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. | Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR AJ Plank

MONITORING WELL NO.: MW-1B

| | | YES | NO | ACTION REQUIRED |
|---|---|---|---|---|
| A. | Location/Identification | | | |
| 1. | Is well readily accessible? | ✓ | | |
| 2. | Is well in a protected area ~~or in a vulnerable traffic area?~~ | ✓ | | |
| 3. | Is well situated outside a low point or ponded water? | ✓ | | |
| 4. | Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. | Is well flagged or painted? | | ✓ | |
| 6. | Is well labeled inside and outside? | | ✓ | inside only |
| B. | Surface Seal | | | |
| 1. | Is concrete surface seal in good condition (i.e., no cracks)? | | | Not visible |
| 2. | Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. | Is the seal sloped away from the well head? | | | Not visible |
| C. | External Casing | | | |
| 1. | Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is external casing locked? | ✓ | | |
| 3. | Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. | Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| D. | Internal Casing | | | |
| 1. | Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. | Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. | Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): QUARTERLY / TRIMESTERLY / OTHER

INSPECTOR A. Plesa

MONITORING WELL NO.: MW-1C

| | | YES | NO | ACTION REQUIRED |
|---|---|---|---|---|
| A. | Location/Identification | | | |
| 1. | Is well readily accessible? | ✓ | | |
| 2. | Is well in a protected area ~~or in a vulnerable traffic area~~? | ✓ | | |
| 3. | Is well situated outside a low point or ponded water? | ✓ | | |
| 4. | Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. | Is well flagged or painted? | | ✓ | |
| 6. | Is well labeled inside and outside? | | ✓ | INSIDE ONLY |
| B. | Surface Seal | | | |
| 1. | Is concrete surface seal in good condition (i.e., no cracks)? | | | NOT VISIBLE |
| 2. | Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. | Is the seal sloped away from the well head? | | | NOT VISIBLE |
| C. | External Casing | | | |
| 1. | Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is external casing locked? | ✓ | | |
| 3. | Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. | Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| D. | Internal Casing | | | |
| 1. | Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. | Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. | Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR AI Plva

MONITORING WELL NO.: MW-4B

| | | YES | NO | ACTION REQUIRED |
|---|---|---|---|---|
| A. | Location/Identification | | | |
| 1. | Is well readily accessible? | ✓ | | |
| 2. | Is well in a protected area ~~or in a vulnerable traffic area?~~ | ✓ | | |
| 3. | Is well situated outside a low point or ponded water? | ✓ | | |
| 4. | Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. | Is well flagged or painted? | ✓ | | |
| 6. | Is well labeled inside and outside? | ✓ | | |
| B. | Surface Seal | | | |
| 1. | Is concrete surface seal in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. | Is the seal sloped away from the well head? | ✓ | | |
| C. | External Casing | | | |
| 1. | Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is external casing locked? | ✓ | | |
| 3. | Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. | Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| D. | Internal Casing | | | |
| 1. | Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. | Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. | Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR M. Plesh

MONITORING WELL NO.: EX-1

| | | YES | NO | ACTION REQUIRED |
|---|---|---|---|---|
| A. | Location/Identification | | | |
| 1. | Is well readily accessible? | ✓ | | |
| 2. | Is well in a protected area ~~out of a vulnerable traffic area~~? | ✓ | | |
| 3. | Is well situated outside a low point or ponded water? | ✓ | | |
| 4. | Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. | Is well flagged or painted? | ✓ | | |
| 6. | Is well labeled inside and outside? | ✓ | | outside |
| B. | Surface Seal | | | |
| 1. | Is concrete surface seal in good condition (i.e., no cracks)? | | | Not Visible |
| 2. | Is the seal secure against the casing and ground surface? | | NA | |
| 3. | Is the seal sloped away from the well head? | | NA | |
| C. | External Casing | | | |
| 1. | Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is external casing locked? | ✓ | | |
| 3. | Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. | Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| D. | Internal Casing | | | |
| 1. | Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. | Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. | Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL,
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER

INSPECTOR M Pleh

MONITORING WELL NO.: MW-10

| | | YES | NO | ACTION REQUIRED |
|---|---|---|---|---|
| A. | Location/Identification | | | |
| 1. | Is well readily accessible? | ✓ | | |
| 2. | Is well in a protected area ~~or in a vulnerable traffic area~~? | ✓ | | |
| 3. | Is well situated outside a low point or ponded water? | ✓ | | |
| 4. | Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. | Is well flagged or painted? | | ✓ | |
| 6. | Is well labeled inside and outside? | | ✓ | Inside only |
| B. | Surface Seal | | | |
| 1. | Is concrete surface seal in good condition (i.e., no cracks)? | | | Not Visible |
| 2. | Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. | Is the seal sloped away from the well head? | | | Not Visible |
| C. | External Casing | | | |
| 1. | Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is external casing locked? | ✓ | | |
| 3. | Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. | Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| D. | Internal Casing | | | |
| 1. | Is internal casing at least 1 foot above ground? | | ✓ | < 1ft |
| 2. | Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. | Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-20-25

INSPECTOR Al Plesa

INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

MONITORING WELL NO.: MW-11

| | | YES | NO | ACTION REQUIRED |
|---|---|---|---|---|
| A. | Location/Identification | | | |
| 1. | Is well readily accessible? | ✓ | | |
| 2. | Is well in a protected area ~~or in a vulnerable traffic area?~~ | ✓ | | |
| 3. | Is well situated outside a low point or ponded water? | ✓ | | |
| 4. | Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. | Is well flagged or painted? | ✓ | | |
| 6. | Is well labeled inside and outside? | ✓ | | |
| B. | Surface Seal | | | |
| 1. | Is concrete surface seal in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. | Is the seal sloped away from the well head? | ✓ | | |
| C. | External Casing | | | |
| 1. | Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is external casing locked? | ✓ | | |
| 3. | Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. | Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| D. | Internal Casing | | | |
| 1. | Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. | Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. | Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25

INSPECTION (Circle one): (TRIMESTERLY) OTHER

INSPECTOR Al Plesa

MONITORING WELL NO.: MW-12

| | | YES | NO | ACTION REQUIRED |
|---|---|---|---|---|
| A. | Location/Identification | | | |
| 1. | Is well readily accessible? | ✓ | | |
| 2. | Is well in a protected area ~~or in a vulnerable traffic area~~? | ✓ | | |
| 3. | Is well situated outside a low point or ponded water? | ✓ | | |
| 4. | Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. | Is well flagged or painted? | ✓ | | |
| 6. | Is well labeled inside and outside? | ✓ | | |
| B. | Surface Seal | | | |
| 1. | Is concrete surface seal in good condition (i.e., no cracks)? | | | Not Visible |
| 2. | Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. | Is the seal sloped away from the well head? | | | Not Visible |
| C. | External Casing | | | |
| 1. | Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is external casing locked? | ✓ | | |
| 3. | Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. | Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| D. | Internal Casing | | | |
| 1. | Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. | Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. | Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25 INSPECTION (Circle one): (TRIMESTERLY) OTHER _____

INSPECTOR RI Pleva MONITORING WELL NO.: MW-13

| | | YES | NO | ACTION REQUIRED |
|---|---|---|---|---|
| A. | Location/Identification | | | |
| 1. | Is well readily accessible? | ✓ | | |
| 2. | Is well in a protected area ~~or in a vulnerable traffic area~~? | ✓ | | |
| 3. | Is well situated outside a low point or ponded water? | ✓ | | |
| 4. | Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. | Is well flagged or painted? | ✓ | | |
| 6. | Is well labeled inside and outside? | ✓ | | Outside ... |
| B. | Surface Seal | | | |
| 1. | Is concrete surface seal in good condition (i.e., no cracks)? | | | Not Visible |
| 2. | Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. | Is the seal sloped away from the well head? | | | Not Visible |
| C. | External Casing | | | |
| 1. | Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is external casing locked? | ✓ | | |
| 3. | Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. | Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| D. | Internal Casing | | | |
| 1. | Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. | Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. | Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25 INSPECTION (Circle one): (TRIMESTERLY) OTHER

INSPECTOR M Pleva MONITORING WELL NO.: MW-14

| | | YES | NO | ACTION REQUIRED |
|---|---|---|---|---|
| A. | Location/Identification | | | |
| 1. | Is well readily accessible? | ✓ | | |
| 2. | Is well in a protected area ~~or in a vulnerable traffic area~~? | ✓ | | |
| 3. | Is well situated outside a low point or ponded water? | ✓ | | |
| 4. | Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. | Is well flagged or painted? | ✓ | | |
| 6. | Is well labeled inside and outside? | ✓ | | Outside only |
| B. | Surface Seal | | | |
| 1. | Is concrete surface seal in good condition (i.e., no cracks)? | | | Not Visible |
| 2. | Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. | Is the seal sloped away from the well head? | | | Not Visible |
| C. | External Casing | | | |
| 1. | Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is external casing locked? | ✓ | | |
| 3. | Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. | Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| D. | Internal Casing | | | |
| 1. | Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. | Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. | Is casing free of animals/debris/kinks or bends? | ✓ | | |

FIGURE 5
MONITORING WELL
POST-CLOSURE INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 10-22-25 INSPECTION (Circle one): (TRIMESTERLY) OTHER ____

INSPECTOR A1 Plva MONITORING WELL NO. MW-15

| | | YES | NO | ACTION REQUIRED |
|---|---|---|---|---|
| A. | Location/Identification | | | |
| 1. | Is well readily accessible? | ✓ | | |
| 2. | Is well in a protected area ~~or in a vulnerable traffic area~~? | ✓ | | |
| 3. | Is well situated outside a low point or ponded water? | ✓ | | |
| 4. | Is well head area free of waste, stored chemicals, etc.? | ✓ | | |
| 5. | Is well flagged or painted? | ✓ | | |
| 6. | Is well labeled inside and outside? | ✓ | | outside only |
| B. | Surface Seal | | | |
| 1. | Is concrete surface seal in good condition (i.e., no cracks)? | | | Not visible |
| 2. | Is the seal secure against the casing and ground surface? | ✓ | | |
| 3. | Is the seal sloped away from the well head? | | | Not visible |
| C. | External Casing | | | |
| 1. | Does well have external casing in good condition (i.e., no cracks)? | ✓ | | |
| 2. | Is external casing locked? | ✓ | | |
| 3. | Is lock in good condition (i.e., no severe rust)? | ✓ | | |
| 4. | Is casing/annulus in good condition and free of water/animals/debris? | ✓ | | |
| D. | Internal Casing | | | |
| 1. | Is internal casing at least 1 foot above ground? | ✓ | | |
| 2. | Is casing tight horizontally/vertically/rotationally? | ✓ | | |
| 3. | Is casing free of animals/debris/kinks or bends? | ✓ | | |

# APPENDIX A.2

# HISTORICAL WATER LEVEL ELEVATION DATA

**HISTORICAL WATER LEVEL ELEVATION DATA**
**Cortese Landfill Site**
**Narrowsburg, NY**

| Monitoring Well ID | Water Table Elevation (ft MSL) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Dec 1987 | Mar 1988 | Oct 1988 | Apr 1993 | Oct 1995 | Apr 1996 | Aug 1996 | Oct 1996 | Apr 1997 | Jul 1997 | Oct 1997 | Apr 1998 | Jul 1998 | Oct 1998 | Apr 1999 | Jul 1999 |
| MW-1A | 674.19 | 674.90 | 673.27 | 679.97 | -- | -- | 674.26 | 674.14 | 677.09 | 673.32 | 673.33 | 675.66 | 673.72 | 673.41 | 674.24 | 673.32 |
| MW-1B | 674.75 | 675.32 | 673.65 | 680.52 | 673.65 | 676.95 | 674.70 | 674.36 | 677.15 | 607.27 | 673.35 | 676.15 | 673.97 | 673.29 | 674.37 | 673.28 |
| MW-1C | 674.52 | 675.24 | 673.38 | 680.55 | 673.55 | 677.00 | 674.75 | 674.43 | 677.19 | 673.48 | 673.53 | 676.27 | 674.10 | 673.55 | 674.67 | 673.48 |
| MW-2A | 672.28 | 673.03 | 671.79 | 678.25 | 672.01 | 673.71 | 672.19 | 672.63 | 675.87 | 671.82 | 671.70 | 673.28 | 671.70 | 671.85 | 672.43 | 671.82 |
| MW-2B | 673.65 | 674.50 | 672.66 | 678.88 | 671.58 | 675.55 | 673.36 | 673.37 | 676.38 | 672.18 | 672.36 | 675.12 | 672.80 | 672.40 | 673.52 | 672.42 |
| MW-3A | 674.99 | 675.71 | 674.35 | 680.18 | 674.56 | 677.01 | 675.24 | 674.86 | 677.80 | 674.36 | 674.38 | 676.33 | 674.44 | 674.47 | 674.81 | 674.12 |
| MW-3B | 674.85 | 675.40 | 674.30 | 679.41 | 674.57 | 676.77 | 675.10 | 674.77 | 677.22 | Dry | 674.32 | 676.18 | 674.53 | 674.34 | 674.85 | 674.33 |
| MW-4A | Dry | Dry | Dry | 684.06 | 680.30 | 684.25 | 680.30 | 680.35 | 683.79 | 680.30 | Dry | 643.47 | 680.25 | Dry | Dry | Dry |
| MW-4B | 677.56 | 678.36 | 676.15 | 681.42 | 676.04 | 681.14 | 678.63 | 676.89 | NR | 677.26 | 676.24 | NR | NR | NR | 678.58 | 676.62 |
| MW-5 | 674.68 | 675.34 | 674.12 | 679.76 | 674.44 | 676.34 | 674.76 | 674.86 | 677.45 | 674.17 | 674.15 | 675.86 | 674.19 | 674.28 | 674.79 | 674.18 |
| MW-6A | 673.78 | 674.39 | 673.21 | 679.15 | 673.75 | 675.15 | 673.68 | 674.00 | 676.84 | 673.30 | 673.20 | 674.72 | 673.19 | 673.37 | 673.78 | 673.21 |
| MW-6B | 674.37 | 674.98 | 673.37 | 679.94 | 673.70 | 676.40 | 674.40 | 674.27 | 677.04 | 673.40 | 673.48 | 675.83 | 673.87 | 673.50 | 674.37 | 673.39 |
| MW-7A | 673.12 | 673.82 | 672.60 | 678.78 | 672.84 | 674.52 | 673.00 | 673.37 | 676.41 | 672.64 | 672.57 | 676.67 | 672.56 | 672.72 | 673.22 | 672.63 |
| MW-7M | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7B | 674.26 | 674.91 | 674.02 | 680.13 | 674.82 | 676.64 | 674.82 | 674.72 | 677.01 | Dry | Dry | Dry | Dry | Dry | Dry | Dry |
| MW-8A | 674.76 | 675.65 | 672.96 | 681.54 | 673.20 | 677.65 | 675.43 | 674.75 | 678.13 | 672.96 | 673.04 | 677.04 | 674.02 | 673.01 | 675.21 | 673.00 |
| MW-8B | 674.42 | 674.99 | 673.13 | 680.69 | 673.34 | 677.04 | 674.76 | 674.64 | 677.51 | 673.12 | 673.24 | 676.51 | 674.04 | 673.22 | 674.61 | 673.20 |
| MW-9 | 674.36 | 675.11 | 673.25 | 680.47 | 673.44 | 676.84 | 674.54 | 674.14 | 677.21 | 673.23 | 673.33 | 676.20 | 673.99 | 673.34 | 674.44 | 673.27 |
| MW-10 | 674.68 | 675.35 | 673.75 | 680.00 | 673.91 | 683.11 | 674.99 | 674.56 | 677.21 | 673.84 | 673.90 | 676.38 | 674.36 | 673.81 | 674.75 | 673.78 |
| MW-11 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-12 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-13 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-14 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-17 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| EX-1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| S-1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| S-2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| PZ-1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| PZ-2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-18A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-18B | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-18C | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-19 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-20A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-20B | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-21 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**HISTORICAL WATER LEVEL ELEVATION DATA**
**Cortese Landfill Site**
**Narrowsburg, NY**

| Monitoring Well ID | Water Table Elevation (ft MSL) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Nov 1999 | May 2000 | Jul 2000 | Oct 2000 | May 2001 | Jul 2001 | Oct 2001 | May 2002 | Jul 2002 | Oct 2002 | Apr 2003 | Aug 2003 | Nov 2003 | Apr 2004 | Jul 2004 | Oct 2004 |
| MW-1A | 673.30 | 676.01 | 674.41 | 673.49 | 674.85 | 673.24 | 673.45 | 674.55 | 673.22 | 674.55 | 675.32 | 674.10 | 676.51 | 675.57 | 674.86 | 674.70 |
| MW-1B | 673.41 | 676.60 | 674.25 | 673.55 | 675.39 | 673.23 | 673.50 | 674.77 | 673.34 | 674.74 | 675.35 | 674.20 | 675.93 | 675.58 | 673.81 | 674.94 |
| MW-1C | 673.56 | 676.56 | 673.85 | 673.32 | 675.64 | 673.31 | 673.59 | 674.94 | 673.40 | 674.67 | 675.63 | 674.50 | 678.57 | 678.75 | 674.00 | 675.49 |
| MW-2A | 671.65 | 673.54 | 673.04 | 671.80 | 672.33 | 671.47 | 671.94 | 673.66 | 671.51 | 672.47 | 673.49 | 672.26 | 677.47 | 674.06 | 675.26 | 672.66 |
| MW-2B | 672.32 | 675.45 | 672.70 | 671.25 | 674.47 | 672.25 | 672.52 | 674.25 | 672.25 | 673.76 | 674.70 | 673.32 | 676.01 | 675.07 | 673.92 | 674.10 |
| MW-3A | 674.04 | 676.68 | 675.31 | 674.06 | 675.67 | 674.11 | 674.26 | 674.96 | 674.26 | 675.17 | 676.24 | 674.98 | 677.26 | 676.30 | 675.72 | 675.59 |
| MW-3B | 674.28 | 676.62 | 674.83 | 674.31 | 675.53 | 674.15 | 674.37 | 675.23 | 674.17 | 674.92 | 675.82 | 675.08 | 675.94 | 675.75 | 674.71 | 675.25 |
| MW-4A | Dry | 684.06 | 680.49 | Dry | 682.31 | Dry | Dry | Dry | Dry | Dry | 682.46 | Dry | NA | NA | NA | NA |
| MW-4B | 675.88 | 678.58 | 679.34 | 676.61 | 680.41 | 677.56 | 0.00 | 676.70 | 678.44 | 677.17 | 680.33 | 678.44 | 678.74 | 678.53 | 676.31 | 678.68 |
| MW-5 | 674.01 | 676.20 | 675.15 | 674.32 | 675.08 | 673.90 | 674.34 | 675.42 | 673.95 | 674.87 | 675.74 | 674.74 | 676.82 | 676.00 | 675.69 | 675.11 |
| MW-6A | 673.05 | 674.90 | 674.25 | 673.00 | 673.88 | 672.95 | 673.40 | 674.46 | 672.95 | 673.90 | 674.78 | 673.70 | 678.11 | 675.11 | 675.85 | 674.08 |
| MW-6B | 673.42 | 676.10 | 674.10 | 673.40 | 675.08 | 673.42 | 673.65 | 674.80 | 673.35 | 674.62 | 675.34 | 674.30 | 676.13 | 675.52 | 674.30 | 674.78 |
| MW-7A | 672.44 | 677.12 | 673.62 | 672.57 | 673.24 | 672.31 | 672.78 | 672.78 | 672.32 | 666.42 | 674.24 | 674.24 | 677.57 | 674.70 | 675.68 | 673.48 |
| MW-7M | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7B | 674.67 | Dry | 674.72 | 674.72 | 674.72 | Dry | Dry | Dry | Dry | Dry | 675.27 | 675.27 | 675.84 | 675.61 | Dry | Dry |
| MW-8A | 673.41 | 677.70 | 674.45 | 673.57 | 675.93 | 673.08 | 673.16 | 675.76 | 673.15 | 675.65 | 676.22 | 674.33 | 676.93 | 676.79 | 673.66 | 675.48 |
| MW-8B | 673.33 | 677.09 | 674.40 | 673.56 | 675.61 | 673.18 | 673.34 | 675.08 | 673.28 | 675.03 | 675.42 | 674.28 | 676.35 | 676.09 | 671.87 | 675.11 |
| MW-9 | 673.39 | 676.34 | 674.24 | 673.44 | 675.41 | 673.26 | 673.47 | 674.75 | 673.32 | 674.65 | 675.29 | 674.27 | 675.91 | 675.62 | 673.82 | 675.00 |
| MW-10 | 673.75 | 676.41 | 674.25 | 673.48 | 675.72 | 673.70 | 673.94 | 674.92 | 673.81 | 674.84 | 675.83 | 674.81 | 676.09 | 675.67 | 674.30 | 675.20 |
| MW-11 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-12 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-13 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-14 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-17 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| EX-1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| S-1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| S-2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| PZ-1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| PZ-2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-18A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-18B | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-18C | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-19 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-20A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-20B | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-21 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**HISTORICAL WATER LEVEL ELEVATION DATA**
**Cortese Landfill Site**
**Narrowsburg, NY**

| Monitoring Well ID | Water Table Elevation (ft MSL) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Apr 2005 | Jul 2005 | Oct 2005 | Apr 2006 | Jul 2006 | Oct 2006 | Apr 2007 | Jul 2007 | Oct 2007 | Apr 2008 | Jul 2008 | Oct 2008 | Apr 2009 | Jul 2009 | Oct 2009 | Apr 2010 |
| MW-1A | 676.12 | 673.07 | 675.72 | 675.26 | 674.27 | 674.13 | 677.69 | 673.30 | 673.24 | 674.56 | 675.08 | 673.27 | 674.15 | 674.05 | 675.10 | 674.64 |
| MW-1B | 676.74 | 672.91 | 675.71 | 674.80 | 674.72 | 674.20 | 678.57 | 673.02 | 673.67 | 675.00 | 673.52 | 673.29 | 674.51 | 674.24 | 674.33 | 675.09 |
| MW-1C | 676.65 | 673.28 | 675.73 | 674.99 | 674.86 | 674.33 | 678.65 | 673.74 | 673.57 | 675.33 | 674.32 | 673.37 | 674.61 | 674.40 | 674.39 | 675.26 |
| MW-2A | -- | 671.47 | 674.52 | 674.52 | 671.88 | 672.36 | 675.16 | 671.74 | 671.53 | 672.27 | 676.99 | 671.61 | 672.00 | 672.85 | 675.23 | 672.31 |
| MW-2B | 673.99 | 672.14 | 675.43 | 674.59 | 673.72 | 673.34 | 677.59 | 672.36 | 672.77 | 668.16 | 673.96 | 672.37 | 670.61 | 673.36 | -- | 674.30 |
| MW-3A | 677.02 | 674.07 | 676.33 | 676.12 | 675.08 | 675.18 | 678.48 | -- | 674.33 | 675.42 | 675.48 | 674.28 | 674.91 | 674.92 | 675.92 | 675.33 |
| MW-3B | 676.39 | 674.62 | 675.92 | 675.39 | 674.85 | 674.94 | 677.99 | 674.17 | 674.34 | 675.10 | 674.29 | 674.18 | 674.71 | 674.71 | 675.02 | 675.00 |
| MW-4A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-4B | 680.16 | 676.00 | 676.48 | 677.20 | 678.77 | 676.45 | 680.66 | 675.76 | 676.24 | 679.11 | 676.02 | 675.06 | 678.21 | 677.57 | 676.47 | 678.92 |
| MW-5 | 669.54 | 673.79 | 676.25 | 676.06 | 674.54 | 674.79 | 677.63 | 674.12 | 674.10 | 674.90 | 675.66 | 674.07 | 674.54 | 674.48 | 675.90 | 674.89 |
| MW-6A | 675.20 | 672.89 | 675.42 | 675.33 | 672.88 | 673.78 | 676.27 | 673.09 | 673.12 | 673.66 | 677.05 | 673.01 | 672.60 | 673.44 | 675.84 | 673.59 |
| MW-6B | 676.19 | 673.08 | 675.76 | 675.00 | 674.44 | 674.19 | 677.97 | 673.35 | 673.45 | 674.66 | 674.21 | 673.31 | 674.32 | 674.15 | 674.68 | 674.72 |
| MW-7A | 674.71 | 672.21 | 675.10 | 675.06 | 672.66 | 673.16 | 675.38 | 672.58 | 672.57 | 673.16 | 677.05 | 672.50 | 672.70 | 672.91 | 675.58 | 674.20 |
| MW-7M | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7B | 676.50 | Dry | 675.71 | 674.97 | Dry | Dry | 678.74 | -- | Dry | 674.76 | Dry | Dry | 674.82 | Dry | Dry | 674.94 |
| MW-8A | 677.61 | 672.79 | 676.84 | 675.78 | 674.91 | 674.27 | 680.14 | 672.90 | 673.08 | 675.36 | 673.62 | 672.95 | 675.00 | 674.31 | 674.44 | 675.81 |
| MW-8B | 676.82 | 672.87 | 676.05 | 675.04 | 674.75 | 674.01 | 679.37 | 673.01 | 673.19 | 674.97 | 673.64 | 673.01 | 674.46 | 674.15 | 674.16 | 675.23 |
| MW-9 | 676.52 | 673.10 | 675.71 | 674.87 | 674.70 | 674.21 | 678.65 | 673.24 | 673.84 | 674.94 | 673.67 | 673.29 | 674.51 | 674.26 | 674.27 | 674.86 |
| MW-10 | 676.73 | 673.54 | 675.75 | 675.22 | 675.00 | 674.44 | 678.46 | 673.79 | 673.71 | 675.25 | 673.97 | 673.75 | 674.76 | 674.61 | 674.77 | 675.22 |
| MW-11 | NA | NA | NA | NA | NA | NA | NA | NA | 672.65 | 675.08 | 674.93 | 673.74 | 674.59 | 674.48 | 675.20 | 675.06 |
| MW-12 | NA | NA | NA | NA | NA | NA | NA | NA | 673.75 | 675.40 | 673.95 | 673.81 | 674.80 | -- | 674.65 | 675.34 |
| MW-13 | NA | NA | NA | NA | NA | NA | NA | NA | 673.56 | 675.08 | 673.84 | 673.53 | 674.28 | 673.79 | 674.64 | 664.19 |
| MW-14 | NA | NA | NA | NA | NA | NA | NA | NA | 673.79 | 675.39 | 674.00 | 673.83 | 674.81 | -- | 674.77 | 675.31 |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA | 673.86 | 679.32 | 674.12 | 673.89 | 674.84 | -- | 674.85 | 675.44 |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 675.22 |
| MW-17 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| EX-1 | NA | NA | NA | NA | NA | NA | NA | NA | 673.73 | 675.29 | 674.01 | 673.77 | 674.81 | 674.67 | 674.89 | 675.32 |
| S-1 | NA | NA | NA | NA | NA | NA | NA | NA | 673.90 | 675.52 | 674.10 | 673.94 | 674.88 | 674.71 | 674.87 | 675.43 |
| S-2 | NA | NA | NA | NA | NA | NA | NA | NA | 673.67 | 675.18 | 673.92 | 673.60 | 674.80 | 674.66 | 674.71 | 675.27 |
| PZ-1 | NA | NA | NA | NA | NA | NA | NA | NA | Dry | 689.85 | 684.29 | Dry | 689.57 | 687.08 | 682.20 | 690.93 |
| PZ-2 | NA | NA | NA | NA | NA | NA | NA | NA | Dry | 682.33 | 679.10 | 678.44 | 682.51 | 680.96 | 680.63 | 684.60 |
| MW-18A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-18B | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-18C | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-19 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-20A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-20B | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-21 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-22 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**HISTORICAL WATER LEVEL ELEVATION DATA**
**Cortese Landfill Site**
**Narrowsburg, NY**

| Monitoring Well ID | Water Table Elevation (ft MSL) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Jul 2010 | Oct 2010 | Apr 2011 | Oct 2011 | Dec 2012 | Apr 2012 | Nov 2012 | Apr 2013 | Oct 2013 | Apr 2014 | Oct 2014 | Apr 2015 | Jul 2015 | Oct 2015 | May 2016 | Jul 2016 |
| MW-1A | 673.28 | 674.43 | 677.90 | 676.07 | -- | -- | 674.33 | -- | 673.18 | 676.6 | 673.57 | 676.20 | 674.10 | 673.49 | 674.86 | 673.48 |
| MW-1B | 673.12 | 674.63 | 678.13 | 676.76 | -- | 674.27 | 674.65 | 674.78 | 673.33 | 677.18 | 673.73 | 676.91 | 674.25 | 673.5 | 675.20 | 673.58 |
| MW-1C | 673.17 | 674.67 | 678.36 | 677.03 | -- | 674.39 | 674.76 | 676.50 | 679.93 | 678.77 | 673.85 | 679.12 | 677.24 | 676.95 | 675.36 | 673.66 |
| MW-2A | 671.78 | 673.01 | 676.40 | 673.43 | -- | 672.25 | 672.28 | 672.79 | 671.60 | 674.46 | 671.78 | 673.93 | 672.45 | 671.86 | 672.90 | 671.88 |
| MW-2B | 672.32 | 673.73 | 677.53 | 675.85 | -- | 673.60 | 674.00 | 674.29 | 672.65 | 676.75 | 673.04 | 676.87 | 673.59 | 672.85 | 674.72 | 672.74 |
| MW-3A | 674.15 | 675.08 | 678.08 | 676.86 | -- | 675.03 | 674.94 | 675.39 | 673.96 | 677.3 | 674.54 | 676.63 | 675.19 | 674.44 | 675.54 | 674.26 |
| MW-3B | 674.08 | 674.83 | 677.34 | 676.57 | -- | 674.81 | 674.89 | 675.02 | 674.03 | 676.96 | Dry | 676.25 | 674.78 | 675.6 | 675.19 | 674.36 |
| MW-4A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-4B | 675.79 | 675.96 | 680.41 | 680.29 | -- | 676.94 | 676.24 | 677.62 | 675.06 | 678.29 | 675.59 | 678.3 | 676.85 | 675.25 | 677.85 | 676.18 |
| MW-5 | 674.08 | 675.04 | 677.58 | 676.19 | -- | 674.67 | 674.77 | 675.07 | 674.01 | 676.78 | 674.3 | 676.05 | 674.84 | 672.91 | 675.22 | 674.18 |
| MW-6A | 673.07 | 674.09 | 677.06 | 674.70 | -- | 673.39 | 673.48 | 673.94 | 669.80 | 675.23 | 673.07 | 674.84 | 673.73 | 673.18 | 674.01 | 672.94 |
| MW-6B | 673.20 | 674.12 | 677.54 | 676.30 | -- | 674.15 | 674.39 | 674.60 | 672.41 | 676.64 | 674.01 | 676.36 | 674.20 | 673.62 | 674.97 | 673.48 |
| MW-7A | 672.60 | 673.71 | -- | -- | -- | 673.08 | 673.12 | 673.51 | 672.39 | 675.14 | 672.58 | 674.67 | 673.28 | 672.72 | 673.68 | 672.47 |
| MW-7M | NA | NA | NA | NA | 675.22 | 673.83 | 673.96 | 674.24 | 672.97 | 676.27 | 673.25 | 675.85 | 673.85 | 673.26 | 674.55 | 673.19 |
| MW-7B | Dry | Dry | 678.16 | 676.68 | -- | 674.27 | 674.82 | 674.42 | Dry | 677.29 | Dry | 677.23 | 674.82 | 675.12 | 675.14 | Dry |
| MW-8A | 672.84 | 674.64 | -- | 677.31 | -- | 674.94 | 675.28 | 675.54 | 673.02 | 678.4 | 673.55 | 678.48 | 674.14 | 673.28 | 676.24 | 673.32 |
| MW-8B | 672.95 | 674.34 | -- | 676.92 | -- | 674.25 | 674.65 | 674.79 | 673.01 | 677.62 | 673.42 | 677.67 | 673.99 | 673.18 | 675.49 | 673.23 |
| MW-9 | 673.12 | 674.44 | 677.30 | 676.74 | -- | 674.31 | 674.63 | -- | 673.28 | 677.24 | 673.66 | 677.01 | 674.25 | 673.5 | 675.28 | 673.57 |
| MW-10 | 673.66 | 674.71 | 677.81 | 677.01 | -- | 674.55 | 674.81 | 675.05 | 673.67 | 677.96 | 674.06 | 676.70 | 674.67 | 673.88 | 675.28 | 674.01 |
| MW-11 | 673.68 | 674.73 | 677.94 | 676.61 | -- | 674.47 | 674.7 | 674.99 | 673.61 | 676.98 | 673.99 | 676.50 | 674.54 | 673.86 | 675.23 | 673.81 |
| MW-12 | 673.70 | 674.75 | 677.94 | -- | -- | -- | -- | 675.06 | 673.68 | 677.26 | 674.3 | 676.89 | 674.61 | 673.88 | 675.39 | 674.33 |
| MW-13 | 673.49 | 674.68 | 677.27 | 675.36 | -- | 674.41 | 674.81 | 674.98 | 673.58 | 677.24 | 673.98 | 676.84 | 674.50 | 673.75 | 675.26 | 673.84 |
| MW-14 | 673.76 | 674.81 | 677.94 | 677.12 | -- | 674.67 | 674.88 | 675.10 | 673.75 | 677.27 | 674.33 | 676.88 | 674.70 | 673.93 | 675.43 | 674.14 |
| MW-15 | 673.85 | 674.90 | 678.08 | 677.24 | -- | 674.71 | 675.01 | 675.22 | 673.85 | 677.41 | 674.37 | 677.08 | 674.80 | 674.07 | 675.63 | 674.63 |
| MW-16 | 675.22 | 674.70 | 677.87 | 676.84 | -- | 674.44 | 674.70 | 674.95 | 673.62 | 677.15 | 674 | 676.79 | 674.50 | 673.8 | 675.37 | 674.01 |
| MW-17 | NA | NA | -- | -- | -- | 674.69 | 674.89 | 675.09 | 673.29 | 676.84 | 673.7 | 676.46 | 674.20 | 673.48 | 675.00 | 673.90 |
| EX-1 | 673.46 | 674.46 | 678.12 | 677.13 | -- | 674.73 | 675 | 675.21 | 673.83 | 677.94 | 674.28 | 677.05 | 674.78 | 673.99 | 675.56 | 674.16 |
| S-1 | 673.75 | 674.87 | 677.95 | 677.07 | -- | 674.64 | 674.86 | 675.01 | 673.68 | 677.21 | 674.08 | 676.82 | 674.56 | 673.83 | 677.32 | 674.28 |
| S-2 | 673.70 | 674.74 | 677.68 | 676.75 | -- | 674.40 | 674.15 | 675.13 | 674.75 | 677.34 | 674.16 | 676.97 | 674.67 | 673.96 | 675.45 | 674.06 |
| PZ-1 | 681.78 | Dry | 695.21 | -- | -- | -- | -- | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| PZ-2 | 680.06 | 681.43 | 687.32 | 684.52 | -- | 683.97 | 684.45 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-18A | NA | NA | NA | NA | 675.52 | 674.09 | 674.16 | 674.16 | 673.41 | 676.1 | 673.68 | 675.93 | 674.29 | 673.68 | 674.75 | 673.59 |
| MW-18B | NA | NA | NA | NA | 675.44 | 674.12 | 674.13 | 674.53 | 673.36 | 675.99 | 673.7 | 675.84 | 674.22 | 673.68 | 674.71 | 673.58 |
| MW-18C | NA | NA | NA | NA | 676.35 | 674.7 | 674.9 | 675.08 | 673.77 | 677.04 | 674.15 | 676.74 | 674.79 | 674.01 | 675.45 | 674.01 |
| MW-19 | NA | NA | NA | NA | NA | NA | NA | 674.75 | 673.46 | 676.27 | 673.8 | 676.01 | 674.36 | 673.79 | 674.70 | 675.76 |
| MW-20A | NA | NA | NA | NA | 676.22 | 674.08 | 674.23 | 674.58 | 673.23 | 676.54 | 673.57 | 676.07 | 674.18 | 673.44 | 674.86 | 673.51 |
| MW-20B | NA | NA | NA | NA | 676.22 | 674.24 | 674.55 | 674.75 | 674.90 | 676.18 | 673.66 | 676.99 | 674.18 | 673.43 | 675.23 | 673.51 |
| MW-21 | NA | NA | NA | NA | NA | NA | NA | 674.02 | 672.72 | 675.54 | 673.03 | 675.20 | 673.60 | 675.03 | 674.10 | 672.94 |
| MW-22 | NA | NA | NA | NA | NA | NA | NA | 673.45 | 672.04 | 675.15 | 672.33 | 674.93 | 672.96 | 672.32 | 673.75 | 672.31 |

**HISTORICAL WATER LEVEL ELEVATION DATA**
**Cortese Landfill Site**
**Narrowsburg, NY**

| Monitoring Well ID | Water Table Elevation (ft MSL) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct 2016 | Apr 2017 | Jul 2017 | Oct 2017 | May 2018 | Jul 2018 | Oct 2018 | Apr 2019 | Jul 2019 | Oct 2019 | Apr 2020 | Jul 2020 | Oct 2020 | Apr 2021 | Jul 2021 | Oct 2021 |
| MW-1A | 673.48 | 676.76 | 673.76 | 673.42 | 675.62 | 673.20 | 676.42 | 678.08 | 673.85 | 673.32 | 675.92 | 673.66 | 673.47 | 674.57 | 676.17 | 674.91 |
| MW-1B | 673.45 | 677.35 | 673.93 | 673.36 | 676.28 | 673.61 | 677.35 | 678.29 | 674.07 | 673.43 | 676.3 | 672.15 | 673.48 | 675.03 | 676.94 | 675.24 |
| MW-1C | 673.53 | 677.52 | 674.01 | 673.44 | 676.87 | 674.19 | 677.95 | 678.47 | 674.29 | 673.55 | 676.49 | 673.99 | 673.57 | 675.21 | 675.95 | 675.43 |
| MW-2A | 672.00 | 674.38 | 672.04 | 671.77 | 681.63 | 679.59 | 682.26 | 676.6 | 671.98 | 671.38 | 674.22 | 671.88 | 671.85 | 672.28 | 675.53 | 672.88 |
| MW-2B | 672.77 | 676.74 | 670.18 | 670.18 | 683.36 | 680.56 | 684.71 | 678.14 | 673.24 | 672.41 | 675.72 | 672.93 | 672.44 | 674.26 | 675.50 | 674.36 |
| MW-3A | 674.44 | 677.39 | 674.65 | 674.39 | 670.33 | 668.32 | 671.07 | 678.44 | 674.66 | 675.23 | 676.71 | 674.34 | 674.31 | 675.11 | 676.98 | 675.59 |
| MW-3B | 674.31 | 676.98 | 674.88 | 674.18 | 670.11 | 668.20 | 670.71 | 677.96 | 674.52 | 674.01 | 676.32 | 674.35 | 674.16 | 674.78 | 676.28 | 675.29 |
| MW-4A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-4B | 674.98 | 680.28 | 676.71 | 675.24 | 671.64 | 669.24 | 670.73 | 680.31 | 677.83 | 675.64 | 679.34 | 677.16 | 675.18 | 678.64 | 677.99 | 678.75 |
| MW-5 | 674.37 | 676.77 | 674.49 | 674.17 | 671.35 | 669.45 | 671.98 | 678.14 | 674.43 | 672.91 | 676.33 | 674.25 | 674.18 | 674.85 | 677.02 | 675.30 |
| MW-6A | 673.29 | 675.48 | 673.33 | 673.11 | 673.73 | 671.82 | 674.22 | 677.19 | 673.28 | 672.83 | 675.17 | 673.07 | 673.14 | 673.56 | 676.23 | 673.98 |
| MW-6B | 673.59 | 676.91 | 673.87 | 673.53 | 673.14 | 671.04 | 674.21 | 678.04 | 674.02 | 673.46 | 676.13 | 673.83 | 670.58 | 674.82 | 676.05 | 675.16 |
| MW-7A | 672.78 | 674.95 | 672.89 | 672.63 | 672.75 | 670.64 | 673.27 | 677.1 | 672.83 | 671.12 | 674.87 | 672.67 | 672.68 | 673.12 | 676.04 | 673.63 |
| MW-7M | 673.29 | 676.20 | 673.52 | 673.16 | 673.93 | 671.71 | 674.88 | 678 | 673.51 | 671.94 | 675.63 | 673.31 | 673.18 | 674.07 | 676.35 | 674.50 |
| MW-7B | Dry | 677.50 | 674.52 | 674.62 | 674.42 | 673.98 | 676.39 | 678.42 | Dry | Dry | 676.23 | Dry | Dry | Dry | 675.70 | Dry |
| MW-8A | 673.13 | 678.73 | 673.67 | 672.97 | 678.12 | 674.54 | N/A | 680.28 | 673.61 | 673.08 | 676.87 | 673.69 | 673.07 | 675.62 | 676.41 | 675.47 |
| MW-8B | 673.09 | 677.83 | 673.61 | 672.75 | 677.97 | 674.91 | N/A | 679.15 | 673.45 | 672.92 | 676.56 | 673.42 | 672.96 | 674.96 | 675.63 | 675.01 |
| MW-9 | 673.46 | 679.43 | 673.87 | 673.40 | 673.42 | 670.80 | 674.58 | 678.43 | 674.1 | 673.26 | 676.34 | 673.9 | 673.43 | 675.07 | 675.89 | 675.26 |
| MW-10 | 673.89 | 677.42 | 674.23 | 673.89 | 674.77 | 672.28 | 675.55 | 678.14 | 674.3 | 673.75 | 676.46 | 673.8 | 673.79 | 675.17 | 676.09 | 675.50 |
| MW-11 | 673.78 | 677.35 | 674.11 | 673.97 | 669.20 | 666.85 | 669.96 | 678.28 | 674.32 | 673.66 | 676.39 | 674.05 | 673.81 | 674.99 | 676.38 | 675.33 |
| MW-12 | 673.83 | 677.58 | 674.22 | 673.60 | 667.07 | 664.57 | 667.80 | 678.07 | 674.41 | 673.75 | 676.46 | 674.19 | 673.79 | 675.27 | 675.95 | 675.60 |
| MW-13 | 673.74 | 671.21 | 674.05 | 675.29 | 667.99 | 665.38 | 668.87 | 678.29 | 674.47 | 673.66 | 676.49 | 674.15 | 673.67 | 675.36 | 675.96 | 675.63 |
| MW-14 | 673.98 | 677.64 | 674.32 | 673.85 | 668.13 | 665.68 | 668.79 | 678.16 | 674.5 | 673.82 | 676.54 | 674.27 | 673.85 | 675.32 | 676.09 | 675.65 |
| MW-15 | 674.25 | 677.58 | 674.46 | 674.10 | 668.97 | 666.49 | 669.75 | 678.37 | 674.68 | 674.01 | 676.7 | 674.41 | 674.05 | 675.52 | 676.25 | 675.84 |
| MW-16 | 673.80 | 677.51 | 674.07 | 673.58 | 667.52 | 664.99 | 668.20 | 678.12 | 674.38 | 673.66 | 676.42 | 674.08 | 673.69 | 675.17 | 676.00 | 675.52 |
| MW-17 | 673.54 | 676.99 | 673.74 | 673.47 | 667.93 | 665.46 | 668.73 | 677.8 | 675.06 | 673.39 | 676.1 | 673.79 | 673.42 | 674.84 | 675.71 | 675.18 |
| EX-1 | 674.02 | 677.72 | 674.45 | 674.01 | 671.67 | 669.19 | 672.53 | 678.45 | 674.52 | 673.88 | 676.65 | 674.06 | 673.96 | 675.37 | 676.28 | 675.65 |
| S-1 | 673.95 | 677.36 | 674.14 | 673.85 | 668.32 | 665.82 | 669.09 | 678.2 | 674.59 | 673.74 | 676.47 | 674.17 | 673.77 | 675.24 | 676.11 | 675.53 |
| S-2 | 673.95 | 677.64 | 674.24 | 673.92 | 668.43 | 665.93 | 669.28 | 678.37 | 674.47 | 673.8 | 676.85 | 674.25 | 673.83 | 675.31 | 676.22 | 675.63 |
| PZ-1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| PZ-2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-18A | 673.75 | 676.47 | 673.87 | 673.67 | 670.84 | 668.92 | 671.50 | 677.92 | 674.44 | 674.32 | 675.86 | 673.79 | 673.77 | 674.84 | 676.51 | 674.87 |
| MW-18B | 673.71 | 676.33 | 673.87 | 673.60 | 671.36 | 669.43 | 672.01 | 677.82 | 673.88 | 673.32 | 675.87 | 673.67 | 673.65 | 674.27 | 676.51 | 674.62 |
| MW-18C | 674.00 | 677.37 | 674.32 | 673.94 | 671.65 | 669.37 | 672.53 | 678.3 | 674.53 | 673.71 | 676.71 | 674.2 | 673.92 | 675.12 | 676.41 | 675.39 |
| MW-19 | 673.88 | 676.60 | 674.00 | 673.67 | 669.25 | 667.48 | 670.17 | 677.87 | 673.85 | 673.43 | 675.99 | 673.81 | 673.73 | 674.49 | 676.49 | 674.91 |
| MW-20A | 673.50 | 676.54 | 673.77 | 673.40 | 672.26 | 669.91 | 673.02 | 678.1 | 673.74 | 673.25 | 676.26 | 673.65 | 673.56 | 674.40 | 676.42 | 674.77 |
| MW-20B | 673.36 | 677.42 | 673.86 | 673.31 | 672.94 | 670.30 | 674.11 | 678.39 | 673.77 | 673.36 | 676.29 | 673.76 | 673.40 | 675.03 | 675.82 | 675.22 |
| MW-21 | 673.10 | 675.83 | 673.24 | 672.95 | 671.01 | 668.91 | 671.73 | 677.45 | 673.17 | 672.76 | 675.22 | 673.09 | 672.98 | 673.74 | 675.98 | 674.15 |
| MW-22 | 672.39 | 675.54 | 672.55 | 672.18 | 678.41 | 676.14 | 679.36 | 677.27 | 672.54 | 672.04 | 674.84 | 672.39 | 672.22 | 673.10 | 675.49 | 673.45 |

**HISTORICAL WATER LEVEL ELEVATION DATA**
**Cortese Landfill Site**
**Narrowsburg, NY**

| Monitoring Well ID | Water Table Elevation (ft MSL) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Apr 2022 | Jul 2022 | Oct 2022 | Apr 2023 | Aug 2023 | Oct 2023 | Apr 2024 | Jul 2024 | Oct 2024 | Apr 2025 | Jul 2025 | Oct 2025 |
| MW-1A | 677.56 | 673.44 | 673.4 | 674.99 | 674.39 | 674.43 | 675.52 | 673.75 | 673.46 | 674.65 | 673.75 | 673.42 |
| MW-1B | 678.41 | 673.43 | 673.41 | 675.13 | 674.75 | 674.67 | 676.21 | 673.89 | 673.54 | 675.03 | 673.9 | 673.42 |
| MW-1C | 678.63 | 673.76 | 673.63 | 675.26 | 674.85 | 674.79 | 676.44 | 673.98 | 673.66 | 675.19 | 674.04 | 673.49 |
| MW-2A | 675.27 | 671.76 | 671.67 | 673.63 | 672.34 | 672.56 | 671.87 | 671.91 | 671.73 | 672.52 | 671.89 | 671.86 |
| MW-2B | 678.23 | 672.67 | 672.65 | 674.56 | 673.91 | 673.83 | 675.37 | 672.74 | 672.49 | 674.37 | 672.9 | 672.49 |
| MW-3A | 678.25 | 674.36 | 674.31 | 675.64 | 675.09 | 675.06 | 676.26 | 674.67 | 674.33 | 675.2 | 674.6 | 674.21 |
| MW-3B | 677.49 | 674.22 | 674.19 | 675.09 | 674.90 | 674.81 | 675.91 | 674.64 | 674.31 | 674.81 | 674.49 | 674.18 |
| MW-4A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-4B | 680.97 | 676.56 | 675.5 | 678.28 | 677.29 | 677.22 | 679.88 | 676.62 | 675.4 | 677.19 | 676.87 | 675.56 |
| MW-5 | 677.36 | 674.09 | 674.11 | 675.44 | 674.79 | 674.91 | 675.60 | 674.52 | 674.22 | 674.88 | 674.35 | 674.27 |
| MW-6A | 676.29 | 673.01 | 672.95 | 674.46 | 673.59 | 673.87 | 674.17 | 672.77 | 673.07 | 673.68 | 673.16 | 673.14 |
| MW-6B | 677.9 | 673.69 | 673.65 | 674.99 | 674.72 | 674.62 | 675.85 | 673.89 | 673.59 | 674.82 | 674.01 | 673.4 |
| MW-7A | 675.91 | 672.48 | 672.53 | 674.22 | 673.14 | 673.41 | 673.72 | 672.82 | 672.52 | 673.33 | 672.8 | 672.67 |
| MW-7M | 677.29 | 673.13 | 673.14 | 674.84 | 674.01 | 674.15 | 676.33 | 673.36 | 673.17 | 674.23 | 673.39 | 673.15 |
| MW-7B | 678.93 | Dry | Dry | 674.88 | Dry | Dry | 674.64 | Dry | Dry | 675.04 | Dry | Dry |
| MW-8A | 678.56 | 673.25 | 673.22 | NR | 675.14 | 674.97 | 676.7 | 673.36 | 673.02 | 676.05 | 673.56 | 672.92 |
| MW-8B | 679.01 | 673.07 | 672.95 | NR | 674.61 | 674.34 | 676.09 | 673.25 | 672.9 | 674.12 | 673.33 | 672.73 |
| MW-9 | 678.39 | 673.59 | 673.18 | 675.11 | 674.73 | 674.57 | 676.26 | 673.87 | 673.51 | 675.1 | 673.93 | 673.42 |
| MW-10 | 676.21 | 673.93 | 673.86 | 675.27 | 674.86 | 674.71 | 676.40 | 674.19 | 673.90 | 675.06 | 674.25 | 673.75 |
| MW-11 | 677.97 | 673.86 | 673.75 | 675.32 | 674.75 | 674.62 | 676 | 674.18 | 673.84 | 674.97 | 674.13 | 673.8 |
| MW-12 | 678.52 | 673.93 | 673.99 | 675.24 | 674.88 | 674.88 | 676.62 | 674.28 | 673.93 | 675.19 | 674.40 | 673.79 |
| MW-13 | 678.82 | 673.85 | 673.86 | 675.28 | 674.88 | 674.86 | 676.6 | 674.15 | 673.76 | 675.19 | 674.2 | 673.62 |
| MW-14 | 677.03 | 674.01 | 674.02 | 675.29 | 674.98 | 674.89 | 676.54 | 674.39 | 673.95 | 675.22 | 674.39 | 673.84 |
| MW-15 | 678.34 | 674.15 | 674.2 | 675.55 | 675.14 | 675.15 | 676.79 | 674.56 | 674.18 | 675.43 | 674.58 | 674.04 |
| MW-16 | 678.5 | 673.88 | 673.84 | 674.22 | 674.82 | 674.78 | 676.48 | 674.17 | 673.8 | 675.08 | 674.1 | 673.66 |
| MW-17 | 677.54 | 678.49 | 678.53 | 674.93 | 674.51 | 674.48 | 676.08 | 673.86 | 678.5 | 674.76 | 673.87 | 673.38 |
| EX-1 | 678.52 | 673.91 | 673.99 | 675.46 | 675.05 | 674.84 | 676.55 | 674.38 | 674.02 | 675.31 | 673.77 | 673.93 |
| S-1 | 678.43 | 673.89 | 673.92 | 675.38 | 674.90 | 674.85 | 676.46 | 674.24 | 673.85 | 675.12 | 674.26 | 673.76 |
| S-2 | 678.59 | 673.95 | 673.97 | 675.38 | 674.98 | 674.92 | 676.51 | 674.28 | 673.92 | 675.23 | 674.29 | 673.82 |
| PZ-1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| PZ-2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-18A | 677.28 | 673.63 | 673.56 | 674.95 | 674.39 | 674.52 | 675.2 | 674.02 | 673.73 | 674.46 | 673.9 | 673.67 |
| MW-18B | 677.05 | 673.59 | 673.47 | 675.01 | 674.28 | 674.47 | 675.09 | 673.96 | 673.61 | 674.4 | 673.73 | 673.66 |
| MW-18C | 678.15 | 673.97 | 673.89 | 675.36 | 675.06 | 674.92 | 676.2 | 674.32 | 674.03 | 675.14 | 674.31 | 673.92 |
| MW-19 | 677.23 | 673.64 | 673.67 | 675.09 | 674.43 | 674.56 | 675.35 | 674.01 | 673.72 | 674.54 | 673.93 | 673.72 |
| MW-20A | 677.45 | 673.4 | 673.44 | 675.11 | 674.30 | 674.42 | 675.21 | 673.69 | 673.46 | 674.5 | 673.65 | 673.47 |
| MW-20B | 678.48 | 673.37 | 673.35 | 675.06 | 674.69 | 674.53 | 676.22 | 673.84 | 673.44 | 675.03 | 673.86 | 673.36 |
| MW-21 | 676.79 | 672.91 | 672.91 | 674.50 | 673.70 | 673.85 | 674.55 | 673.2 | 672.94 | 673.89 | 673.15 | 672.97 |
| MW-22 | 676.44 | 672.18 | 672.17 | 674.02 | 673.01 | 673.14 | 673.82 | 671.45 | 672.17 | 673.28 | 672.39 | 672.21 |

**Notes:**
Dry - Water level below top of dedicated pump
ft MSL - Feet above mean sea level
NA - Not Applicable
NR - Not Recorded; MW-4B was buried in debris at this time and could not be accessed; MW-8A, and MW-8B were underwater and could not be accessed.
"--" indicates water level was not collected.
MW-4A was decommissioned in 2003.
MW-11, MW-12, MW-13, MW-14 and MW-15 installed in September 2007.
S-1, S-2, EX-1, PZ-1, and PZ-2 initially surveyed in October 2007.
MW-16 installed in February 2009
MW-7M, MW-18A/B/C, and MW-20A/B installed in November 2011.
MW-19, MW-21, and MW-22 installed in January 2013.
Water Table Elevation before 2010 corrected by applying the Measuring Point Elevation data collected in December 2010 and 2013

# APPENDIX A.3

# HISTORICAL LNAPL THICKNESS MEASUREMENTS

**HISTORICAL LIGHT NON-AQUEOUS PHASE LIQUID MEASUREMENTS**
**Cortese Landfill Site**
**Narrowsburg, NY**

| Monitoring Well ID | LNAPLThickness (feet) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct 2005 | 26-Apr-06 | 27-Jul-06 | 10-Oct-06 | 1-Apr-07 | 1-Jul-07 | 1-Oct-07 | 1-Apr-08 | 1-Jul-08 | 1-Oct-08 | 1-Apr-09 | 1-Jul-09 | 1-Oct-09 | 1-May-10 | 1-Jul-10 |
| MW-1C | NM | NM | NM | NM | NM | NM | NM | ND | ND | NM | ND | ND | NM | NM | NM |
| MW-9 | NM | NM | NM | NM | NM | NM | NM | ND | ND | NM | ND | ND | NM | NM | NM |
| MW-10 | ND | ND | ND | ND | NM | NM | NM | ND | ND | NM | ND | ND | NM | NM | NM |
| MW-11 | NM | NM | NM | NM | NM | NM | NM | NM | NM | ND | NM | NM | ND | ND | ND |
| MW-12 | NM | NM | NM | NM | NM | NM | NM | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-13 | NM | NM | NM | NM | NM | NM | NM | 0.14 | ND | 0.08 | 0.43 | 0.74 | ND | 11.07 (1) | 0.05 |
| MW-14 | NM | NM | NM | NM | NM | NM | NM | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-15 | NM | NM | NM | NM | NM | NM | NM | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-16 | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| EX-1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-1 | ND | ND | ND | ND | ND | ND | ND | 0.03 | ND | ND | ND | ND | ND | ND | ND |
| S-2 | 0.15 | 0.16 | 0.12 | ND | ND | ND | 0.04 | ND | 0.05 | 0.17 | NQ | NQ | NQ | NQ | 0.27 |

| Monitoring Well ID | LNAPLThickness (feet) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01-Oct-10 | 01-Apr-11 | 01-Oct-11 | 01-Apr-12 | 01-Nov-12 | 17-Apr-13 | 21-Oct-13 | 21-Apr-14 | 30-Sep-14 | 16-Oct-14 | 21-Oct-14 | 27-Oct-14 | 13-Nov-14 | 25-Nov-14 | 11-Dec-14 |
| MW-10 | NM | NM | NM | NM | NM | NM | NM | NM | ND | ND | NM | ND | ND | ND | ND |
| MW-11 | ND | ND | ND | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| MW-12 | ND | ND | ND | NM | NM | NM | NM | NM | ND | ND | NM | ND | ND | ND | ND |
| MW-13 | ND | 0.90 | 0.90 | 0.40 | 0.20 | 0.75 | 0.22 | 1.25 | ND | ND | ND | ND | ND | ND | 0.36 |
| MW-14 | ND | ND | ND | NM | NM | NM | NM | NM | ND | ND | NM | ND | ND | ND | ND |
| MW-15 | ND | ND | ND | NM | NM | NM | NM | NM | ND | ND | NM | ND | ND | ND | ND |
| MW-16 | NM | NM | NM | 0.12 | 0.01 | 0.03 | 0.65 | ND | 4.56 | 4.44 | 0.02 | 1.92 | 1.32 | 0.12 | 0.24 |
| EX-1 | ND | ND | ND | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| S-1 | ND | ND | ND | NM | NM | NM | NM | NM | ND | ND | NM | ND | ND | ND | ND |
| S-2 | 0.39 | ND | 0.60 | 0.31 | 0.79 | 0.05 | 0.03 | 0.12 | 2.40 | 3.24 | 0.12 | 1.44 | 1.32 | 0.12 | ND |

| Monitoring Well ID | LNAPLThickness (feet) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 23-Dec-14 | 8-Jan-15 | 22-Jan-15 | 5-Feb-15 | 19-Feb-15 | 5-Mar-15 | 19-Mar-15 | 3-Apr-15 | 21-Apr-15 | 27-Jul-15 | 19-Oct-15 | 16-May-16 | 18-Jul-16 | 26-Oct-16 | 24-Apr-17 |
| MW-10 | ND | ND | ND | ND | ND | ND | ND | ND | NM | NM | NM | ND | ND | ND | ND |
| MW-12 | ND | ND | ND | ND | ND | ND | ND | ND | NM | NM | NM | ND | ND | ND | ND |
| MW-13 | 0.12 | ND | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | NM | NM | NM | ND | ND | ND | ND |
| MW-14 | ND | ND | ND | ND | ND | ND | ND | ND | NM | NM | NM | ND | ND | ND | ND |
| MW-15 | ND | ND | ND | ND | ND | ND | ND | ND | NM | NM | NM | ND | ND | ND | ND |
| MW-16 | 0.12 | ND | ND | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | NM | 0.01 | 0.25 | 0.44 | ND | ND | ND |
| S-1 | ND | ND | ND | ND | ND | ND | ND | ND | NM | NM | NM | ND | ND | ND | ND |
| S-2 | ND | ND | ND | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | NM | 0.01 | 0.04 | ND | ND | ND | ND |

| Monitoring Well ID | LNAPLThickness (feet) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 31-Jul-17 | 17-Oct-17 | 7-May-18 | 19-Jul-18 | 15-Oct-18 | 22-Apr-19 | 22-Jul-19 | 7-Oct-19 | 29-Apr-20 | 7-Jul-20 | 19-Oct-20 | 26-Apr-21 | 19-Jul-21 | 25-Oct-21 | 19-Apr-22 |
| MW-10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-12 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-13 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-14 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-15 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-16 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

| Monitoring Well ID | LNAPLThickness (feet) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 26-Jul-22 | 25-Oct-22 | 24-Apr-23 | 1-Aug-23 | 30-Oct-23 | 30-Apr-24 | 29-Jul-24 | 28-Oct-24 | 20-Apr-25 | 30-Jul-25 | 22-Oct-25 |
| MW-10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-12 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-13 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-14 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-15 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-16 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

NM - LNAPL Level not measured
ND - LNAPL Level checked but not detected
NQ - LNAPL encountered but not quantifiable
(1) Measured value is suspected to be erroneous.

# APPENDIX A.4

# HISTORICAL GROUNDWATER AND SURFACE WATER ANALTYICAL DATA

**EX-1**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 7/24/2008 | 10/22/2008 | 4/27/2009 | 7/17/2009 | 10/29/2009 | 5/6/2010 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **225** | **241** | **111** | **180** | **214** | **113** | **128** |
| | Ammonia | mg/L | **9.2** | **8.5** | **7.4** | **9.54** | **10.5** | **9.41** | **9.15** |
| | Nitrate+Nitrite | mg/L | <0.1U | <0.1U | <0.1U | <0.02U | <0.02U | <0.1U | <0.1U |
| | Sulfate | mg/L | <5U | <5U | <5U | <2.6U | **2.6J** | **8.2** | **10.6J** |
| | Total Organic Carbon | mg/L | **24.1** | **14.4** | **9.5** | **9.2** | **16.2** | **6.7** | **18.4** |
| Metals | Arsenic | µg/L | **39.2** | **34** | **31.1** | **44.3** | **42.7** | **33.4** | **30.9** |
| | Iron | µg/L | **70,400** | **72,400** | **50,200J** | **61,600** | **63,500** | **61,400** | **55,200** |
| | Manganese | µg/L | **10,400** | **10,300J** | **8,360J** | **8,820** | **9,170** | **9,480** | **7,380** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **290** | **21J** | **10** | **130** | **64** | **18** | **120** |
| | 1,2-Dichlorobenzene | µg/L | **72** | **37** | **22** | **34** | **24** | **26** | **23** |
| | 1,3-Dichlorobenzene | µg/L | **16** | **11** | **9** | **9.5** | **7.2** | **12** | **6** |
| | 1,4-Dichlorobenzene | µg/L | **-** | **140J** | **110** | **110** | **94** | **120** | **62** |
| | 1,4-Dioxane | µg/L | **32** | **95** | **67** | **11J** | **19** | **49** | **6.7J** |
| | 2,4,5-Trichlorophenol | µg/L | <10U | <10U | <10U | <2.7U | <0.97U | <0.5U | <9.5U |
| | 2,4,6-Trichlorophenol | µg/L | <3U | <3U | <3U | <3U | <0.97U | <0.64U | <3U |
| | 2,4-Dichlorophenol | µg/L | <2U | <2U | **1J** | <0.83U | <0.77U | **1.9J** | <2.7U |
| | 2,4-Dimethylphenol | µg/L | **48** | **8** | **3** | **34** | **23** | **5.8** | **34** |
| | 2,4-Dinitrophenol | µg/L | <43U | <43U | <43U | <2.1U | <2.2U | <2.3U | <41U |
| | 2,4-Dinitrotoluene | µg/L | <5U | <5U | <5U | <1.3U | <0.44U | <0.47U | <5.5U |
| | 2,6-Dinitrotoluene | µg/L | <1U | <1U | <1U | <1.8U | <0.5U | <0.42U | <1.8U |
| | 2-Chloronaphthalene | µg/L | <1U | <1U | <1U | <1.5U | <0.082U | <0.48U | <1.8U |
| | 2-Chlorophenol | µg/L | <3U | <3U | <3U | <1.1U | <0.5U | <0.55U | <3.1U |
| | 2-Methylnaphthalene | µg/L | **56** | **20** | **11** | **34** | **19** | **16** | **38** |
| | 2-Methylphenol | µg/L | **12** | **4J** | **3J** | **20** | **14** | **8.5J** | **14** |
| | 2-Nitroaniline | µg/L | <10U | <10U | <10U | <1.5U | <0.49U | <0.44U | <9.5U |
| | 2-Nitrophenol | µg/L | <3U | <3U | <3U | <1.5U | <0.59U | <0.5U | <3.4U |
| | 3,3-Dichlorobenzidine | µg/L | <17U | <17U | <17U | <1.6U | <0.37U | <0.42U | <16U |
| | 3-Nitroaniline | µg/L | <10U | <10U | <10U | <1.9U | <1.5U | <0.5U | <9.5U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <24U | <24U | <24U | <1.9U | <2.2U | <2.3U | <23U |
| | 4-Bromophenyl phenyl ether | µg/L | <1U | <1U | <1U | <1.8U | <0.88U | <0.47U | <1.7U |
| | 4-Chloro-3-Methylphenol | µg/L | <3U | <3U | <3U | <1.1U | <0.58U | <0.47U | <2.9U |
| | 4-Chloroaniline | µg/L | **10** | **3** | <2U | <0.98U | <0.32U | **1.4J** | **6.2** |
| | 4-Chlorophenyl phenyl ether | µg/L | <4U | <4U | <4U | <1.4U | <0.16U | <0.36U | <4.1U |
| | 4-Methylphenol | µg/L | **36** | **18** | **9J** | **32** | **24** | **48** | **37** |
| | 4-Nitroaniline | µg/L | <10U | <10U | <10U | <2.8U | <0.45U | <0.26U | <9.5U |
| | 4-Nitrophenol | µg/L | <3U | <3U | <3U | <2.9U | <1.5U | <1.6U | <2.9U |
| | Acenaphthene | µg/L | **3** | **1J** | **1J** | **1.8J** | **1.2J** | **1.1J** | **2.2** |
| | Acenaphthylene | µg/L | <3U | <3U | <3U | <1.2U | <0.046U | <0.4U | <3.3U |
| | Anthracene | µg/L | **0.4J** | <1U | **0.8J** | <1.5U | <0.055U | <0.29U | <1.7U |
| | Benz(a)anthracene | µg/L | <7U | <7U | <7U | <1.6U | <0.063U | <0.38U | <7.4U |
| | Benzo(a)pyrene | µg/L | <2U | <2U | <2U | <1.6U | <0.089U | <0.49U | <2.5U |
| | Benzo(b)fluoranthene | µg/L | <10U | <10U | <10U | <2.9U | <0.062U | <0.35U | <9.5U |
| | Benzo(g,h,i)perylene | µg/L | <4U | <4U | <4U | <2.9U | <0.076U | <0.36U | <3.9U |
| | Benzo(k)fluoranthene | µg/L | <2U | <0.4U | <2U | <1.4U | <0.065U | <0.76U | <2.4U |
| | Benzoic acid | µg/L | **510** | <95U | <100U | **260** | **170** | <100U | **350** |
| | Benzyl alcohol | µg/L | **6J** | <7U | <7U | <4.9U | <0.29U | **1.2J** | <6.7U |
| | Bis(2-chloroethoxy) methane | µg/L | <5U | <5U | <5U | <1.2U | <0.37U | <0.36U | <5U |
| | Bis(2-chloroethyl)ether | µg/L | <5U | **45** | <5U | <1.7U | <0.18U | <0.42U | **1.7J** |
| | Bis(2-chloroisopropyl) ether | µg/L | <5U | <5U | <5U | <0.98U | <3.9U | <0.54U | <5.4U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <10U | <10U | <10U | <2.2U | <4.7U | <1.9U | <9.5U |
| | Butyl benzyl phthalate | µg/L | <10U | <10U | <10U | <1.6U | <1.7U | <0.44U | <9.5U |
| | Carbazole | µg/L | **2J** | **0.9J** | **0.6J** | **1.1J** | <0.087U | **0.7J** | **1.6J** |
| | Chrysene | µg/L | <2U | <0.8U | <2U | <1.7U | <0.27U | <0.34U | <2.4U |
| | Dibenz(a,h)anthracene | µg/L | <10U | <10U | <10U | <1.8U | <0.2U | <0.44U | <9.5U |

**EX-1**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 7/24/2008 | 10/22/2008 | 4/27/2009 | 7/17/2009 | 10/29/2009 | 5/6/2010 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Dibenzofuran | µg/L | <10U | **0.4J** | **0.3J** | <1.6U | <1.6U | <0.53U | **0.74J** |
| | Diethyl phthalate | µg/L | **10** | **4J** | **2J** | **3.9J** | <2.8U | <10U | **2.7J** |
| | Dimethyl phthalate | µg/L | **3J** | <10U | <10U | <1.2U | <0.29U | <0.38U | <9.5U |
| | Di-n-butyl phthalate | µg/L | <6U | <2U | **1J** | **3J** | **1.8J** | **1.9J** | **4J** |
| | Di-n-octyl phthalate | µg/L | <10U | <10U | <10U | <1.8U | <0.24U | <0.49U | <9.5U |
| | Fluoranthene | µg/L | <2U | <2U | <2U | <2U | <0.096U | <0.42U | <2.1U |
| | Fluorene | µg/L | **1J** | **0.5J** | <1U | <1.8U | **0.4J** | **0.44J** | **0.83J** |
| | Hexachlorobenzene | µg/L | <1U | <1U | <1U | <2.2U | <0.44U | <0.53U | <2.1U |
| | Hexachlorobutadiene | µg/L | <2U | <2U | <3U | <1.2U | <2.5U | <0.71U | <2.5U |
| | Hexachlorocyclopentadiene | µg/L | <10U | <10U | <10U | <1.9U | <2.5U | <0.61U | <9.5U |
| | Hexachloroethane | µg/L | <3U | <3U | <5U | <0.83U | <2.8U | <0.61U | <2.7U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4U | <4U | <4U | <3.1U | <0.15U | <0.49U | <4.6U |
| | Isophorone | µg/L | **13** | **2J** | **1J** | **4.4** | **2.9** | <0.45U | **3.8** |
| | Naphthalene | µg/L | **120** | **45** | <28U | **78** | **42** | **34** | **83** |
| | Nitrobenzene | µg/L | <2U | <2U | <2U | <2U | <0.53U | <0.3U | <1.9U |
| | N-nitrosodi-n-propylamine | µg/L | <10U | <10U | <10U | <0.98U | <0.44U | <0.56U | <4.8U |
| | N-Nitrosodiphenylamine | µg/L | **1J** | **0.5J** | **0.4J** | <1.3U | <0.25U | <0.53U | <1.8U |
| | Pentachlorophenol | µg/L | <5U | <5U | <5U | <3.6U | <5U | <2.3U | <4.9U |
| | Phenanthrene | µg/L | **2J** | **1J** | <5U | <1.4U | **0.86J** | **0.85J** | **1.5J** |
| | Phenol | µg/L | **28** | **4** | <2U | **19** | **13** | <0.41U | **20** |
| | Pyrene | µg/L | <1U | <1U | <1U | <1.9U | <0.067U | <0.35U | <1.8U |
| | Total SVOCS | µg/L | **1300** | **470** | **260** | **790** | **530** | **350** | **820** |
| Volatile Organic Compounds | 1,1,1-Trichloroethane | µg/L | **440** | **53J** | **11J** | **210** | **140J** | **13J** | **210** |
| | 1,1,2,2-Tetrachloroethane | µg/L | <25U | <120U | <40U | <17U | <17U | <4.3U | <100U |
| | 1,1,2-Trichloroethane | µg/L | <25U | <120U | <40U | <18U | <18U | <4.6U | <100U |
| | 1,1-Dichloroethane | µg/L | **160** | **100J** | **26J** | **100** | **75J** | **35J** | **83J** |
| | 1,1-Dichloroethene | µg/L | **11J** | <120U | <40U | <23U | <23U | <5.9U | <100U |
| | 1,2-Dichlorobenzene | µg/L | **100** | **53J** | **30J** | **54J** | **54J** | **43J** | **38J** |
| | 1,2-Dichloroethane | µg/L | **5.8J** | <120U | <40U | <17U | <17U | <4.3U | <100U |
| | 1,2-Dichloropropane | µg/L | <25U | <120U | <40U | <12U | <26U | <6.6U | <100U |
| | 1,3-Dichlorobenzene | µg/L | **21J** | **18J** | **12J** | <13U | <28U | **19J** | <100U |
| | 1,4-Dichlorobenzene | µg/L | **230** | **280** | **160** | **160** | **230J** | **210** | **100** |
| | 2-Butanone | µg/L | **530** | **130** | <40U | **500** | **300J** | <26U | **990** |
| | 2-Hexanone | µg/L | <25U | <120U | <40U | <99U | <99U | <25U | <100U |
| | 4-Methyl-2-pentanone | µg/L | **210** | **63J** | <40U | <73U | <73U | <18U | **130** |
| | Acetone | µg/L | **170** | **98J** | <80U | **180J** | <110U | <27U | **220** |
| | Benzene | µg/L | **110** | **51J** | **20J** | **56J** | **43J** | **26J** | **41J** |
| | Dichlorobromomethane | µg/L | <25U | <120U | <40U | <31U | <31U | <7.7U | <100U |
| | Bromoform | µg/L | <25U | <120U | <40U | <21U | <21U | <5.1U | <100U |
| | Bromomethane | µg/L | <25U | <120U | <40U | <23U | <23U | <5.6U | <100U |
| | Carbon Disulfide | µg/L | <25U | <120U | <40U | <16U | <16U | <3.9U | <100U |
| | Carbon Tetrachloride | µg/L | <25U | <120U | <40U | <21U | <21U | <5.3U | <100U |
| | Chlorobenzene | µg/L | **150** | **160** | **78** | **130** | **140J** | **140** | **53J** |
| | Chlorodibromomethane | µg/L | <25U | <120U | <40U | <26U | <26U | <6.4U | <100U |
| | Chloroethane | µg/L | <25U | <120U | <40U | <26U | <26U | <6.5U | <100U |
| | Chloroform | µg/L | **69** | <120U | <40U | **32J** | <27U | <6.7U | **26J** |
| | Chloromethane | µg/L | <25U | <120U | <40U | <28U | <28U | <6.9U | <100U |
| | cis-1,2-Dichloroethene | µg/L | **6800** | **800** | **100** | **2700** | **1900** | **140** | **2500** |
| | cis-1,3-Dichloropropene | µg/L | <25U | <120U | <40U | <28U | <28U | <7.1U | <100U |
| | Methylene Chloride | µg/L | <25U | **14J** | <40U | <35U | <35U | <8.8U | <100U |
| | Ethylbenzene | µg/L | **730J** | **220** | **90** | **390** | **290J** | **120** | **350** |
| | Styrene | µg/L | <25U | <120U | <40U | <15U | <15U | <3.7U | <100U |
| | Trichloroethene | µg/L | **9.6J** | <120U | <40U | <14U | <37U | <9.2U | <100U |
| | Tetrachloroethene | µg/L | **54** | <120U | <40U | <29U | <29U | <7.3U | **24J** |
| | Toluene | µg/L | **11,000** | **2600J** | **450** | **5300** | **3700** | **1200** | **5300** |
| | trans-1,2-Dichloroethene | µg/L | **6.6** | <25U | <8U | <10U | <34U | <8.4U | <20U |
| | trans-1,3-Dichloropropene | µg/L | <25U | <120U | <40U | <29U | <29U | <7.4U | <100U |
| | Vinyl Chloride | µg/L | **570J** | **380** | **78** | **420** | **300J** | **130** | **400** |
| | Total Xylenes | µg/L | **2900** | **950** | **320** | **1500** | **1100** | **450** | **1400** |
| | Total VOCS | µg/L | **25,000** | **6000** | **1400** | **12,000** | **8300** | **2600** | **12,000** |

**EX-1**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 7/22/2010 | 10/28/2010 | 4/17/2013 | 10/21/2013 | 4/21/2014 | 10/22/2014 | 12/11/2014 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **161** | **120** | **151** | **135J** | - | **119** | - |
| | Ammonia | mg/L | **10.1** | **8.35** | **8.3** | **9J** | - | **7.1J** | - |
| | Nitrate+Nitrite | mg/L | <0.1UJ | <0.1U | **0.034J** | <0.05U | - | <0.02UJ | - |
| | Sulfate | mg/L | <5U | **4.8J** | <1.5U | <12.4U | - | <1.5U | - |
| | Total Organic Carbon | mg/L | **10** | **8.9** | **8.5** | **7.2** | - | **4.6** | - |
| Metals | Arsenic | µg/L | **39.2** | **42** | **44** | **33** | - | **33** | - |
| | Iron | µg/L | **62,000** | **57,000** | **56,000** | **54,700** | - | **50,000** | **41,000** |
| | Manganese | µg/L | **9,680** | **8,670J** | **8,000** | **8,400** | - | **9,600** | - |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **57** | **12** | **56** | - | **14J** | - | **25** |
| | 1,2-Dichlorobenzene | µg/L | **33** | **15** | **25J** | - | **21** | - | - |
| | 1,3-Dichlorobenzene | µg/L | **12** | **6.8** | <11U | - | **15J** | - | - |
| | 1,4-Dichlorobenzene | µg/L | **120** | **98** | **150** | - | **100** | - | - |
| | 1,4-Dioxane | µg/L | **63** | **22** | <26U | - | **13J** | - | - |
| | 2,4,5-Trichlorophenol | µg/L | <9.8U | <9.4U | <11U | - | <4.5U | - | - |
| | 2,4,6-Trichlorophenol | µg/L | <3U | <2.9U | <15U | - | <5.7U | - | - |
| | 2,4-Dichlorophenol | µg/L | **1.7J** | <2.6U | <12U | - | <4.8U | - | - |
| | 2,4-Dimethylphenol | µg/L | **9.4** | **9** | <12U | - | **6.4J** | - | - |
| | 2,4-Dinitrophenol | µg/L | <42U | <41U | <53U | - | <21U | - | - |
| | 2,4-Dinitrotoluene | µg/L | <5.7U | <5.5U | <11U | - | <4.2U | - | - |
| | 2,6-Dinitrotoluene | µg/L | <1.9U | <1.8U | <9.5U | - | <3.7U | - | - |
| | 2-Chloronaphthalene | µg/L | <1.9U | <1.8U | <11U | - | <4.3U | - | - |
| | 2-Chlorophenol | µg/L | **0.72J** | <3.1U | <13U | - | <4.9U | - | - |
| | 2-Methylnaphthalene | µg/L | **21** | **12** | **28J** | - | **15J** | - | - |
| | 2-Methylphenol | µg/L | **12** | **3.6J** | <9.5U | - | **7.6J** | - | - |
| | 2-Nitroaniline | µg/L | **4.5J** | <9.4U | <10U | - | <3.9U | - | - |
| | 2-Nitrophenol | µg/L | <3.5U | <3.4U | <11U | - | <4.5U | - | - |
| | 3,3-Dichlorobenzidine | µg/L | <17U | <16U | <9.5U | - | <3.7U | - | - |
| | 3-Nitroaniline | µg/L | <9.8U | <9.4U | <11U | - | <4.5UJ | - | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <24U | <23U | <52U | - | <21U | - | - |
| | 4-Bromophenyl phenyl ether | µg/L | <1.8U | <1.7U | <11U | - | <4.2U | - | - |
| | 4-Chloro-3-Methylphenol | µg/L | <2.9U | <2.8U | <11U | - | <4.2U | - | - |
| | 4-Chloroaniline | µg/L | **2.2** | <1.9U | **15J** | - | <5.5UJ | - | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <4.2U | <4.1U | <8.3U | - | <3.3U | - | - |
| | 4-Methylphenol | µg/L | **23** | **9.1J** | **9.2J** | - | **12J** | - | - |
| | 4-Nitroaniline | µg/L | <9.8U | <9.4U | <6U | - | <2.3U | - | - |
| | 4-Nitrophenol | µg/L | <2.9U | <2.8U | <36U | - | <14U | - | - |
| | Acenaphthene | µg/L | **1.5J** | **0.83J** | <9.8U | - | <3.8U | - | - |
| | Acenaphthylene | µg/L | <3.4U | <3.3U | <9.1U | - | <3.5U | - | - |
| | Anthracene | µg/L | <1.8U | <1.7U | <6.7U | - | <2.6U | - | - |
| | Benz(a)anthracene | µg/L | <7.6U | <7.4U | <8.6U | - | <3.4U | - | - |
| | Benzo(a)pyrene | µg/L | <2.5U | <2.5U | <11U | - | <4.4U | - | - |
| | Benzo(b)fluoranthene | µg/L | <9.8U | <9.4U | <8.1U | - | <3.2U | - | - |
| | Benzo(g,h,i)perylene | µg/L | <4U | <3.9U | <8.3U | - | <3.3UJ | - | - |
| | Benzo(k)fluoranthene | µg/L | <2.5U | <2.4U | <17U | - | <6.8U | - | - |
| | Benzoic acid | µg/L | <98U | <94U | <2400U | - | <930U | - | - |
| | Benzyl alcohol | µg/L | **2.4J** | <6.6U | <10U | - | <4.1U | - | - |
| | Bis(2-chloroethoxy) methane | µg/L | <5.2U | <5U | <8.3U | - | <3.3U | - | - |
| | Bis(2-chloroethyl)ether | µg/L | <5.6U | <5.4U | <9.5U | - | <3.7U | - | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <5.6U | <5.4U | <12U | - | <4.9U | - | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <9.8U | <9.4UJ | <43U | - | <17U | - | - |
| | Butyl benzyl phthalate | µg/L | <9.8U | <9.4U | <10U | - | <3.9U | - | - |
| | Carbazole | µg/L | **0.91J** | **0.49J** | <7.2U | - | <2.8U | - | - |
| | Chrysene | µg/L | <2.5U | <2.4U | <7.9U | - | <3.1U | - | - |
| | Dibenz(a,h)anthracene | µg/L | <9.8U | <9.4U | <10U | - | <3.9U | - | - |

**EX-1**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 7/22/2010 | 10/28/2010 | 4/17/2013 | 10/21/2013 | 4/21/2014 | 10/22/2014 | 12/11/2014 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Dibenzofuran | µg/L | <9.8U | <9.4U | <12U | - | <4.8U | - | - |
| | Diethyl phthalate | µg/L | **3J** | **1.3J** | <5.2U | - | <2.1U | - | - |
| | Dimethyl phthalate | µg/L | <9.8U | <9.4U | <8.6U | - | <3.4U | - | - |
| | Di-n-butyl phthalate | µg/L | <2.4U | **0.97J** | <7.4U | - | <2.9U | - | - |
| | Di-n-octyl phthalate | µg/L | <9.8U | <9.4U | <11U | - | <4.4U | - | - |
| | Fluoranthene | µg/L | <2.2U | <2.1U | <9.5U | - | <3.7U | - | - |
| | Fluorene | µg/L | **0.57J** | <1.8U | <8.6U | - | <3.4U | - | - |
| | Hexachlorobenzene | µg/L | <2.2U | <2.1U | <12U | - | <4.8U | - | - |
| | Hexachlorobutadiene | µg/L | <2.5U | <2.4U | <16U | - | <6.3U | - | - |
| | Hexachlorocyclopentadiene | µg/L | <9.8U | <9.4U | <14U | - | <5.5U | - | - |
| | Hexachloroethane | µg/L | <2.8U | <2.7U | <14U | - | <5.5U | - | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4.7U | <4.5U | <11U | - | <4.4U | - | - |
| | Isophorone | µg/L | **1.2J** | **1.5J** | <10U | - | <4U | - | - |
| | Naphthalene | µg/L | **45** | **24** | **55** | - | **37** | - | - |
| | Nitrobenzene | µg/L | <2U | <1.9U | <6.9U | - | <2.7U | - | - |
| | N-nitrosodi-n-propylamine | µg/L | <4.9U | <4.7U | <13U | - | <5U | - | - |
| | N-Nitrosodiphenylamine | µg/L | **0.52J** | <1.8U | <12U | - | <4.8U | - | - |
| | Pentachlorophenol | µg/L | <5U | <4.8U | <52U | - | <21U | - | - |
| | Phenanthrene | µg/L | **0.99J** | **0.65J** | <10U | - | <4.1U | - | - |
| | Phenol | µg/L | **4** | **4.7** | <9.3U | - | <3.6U | - | - |
| | Pyrene | µg/L | <1.9U | <1.8U | <8.1U | - | <3.2U | - | - |
| | Total SVOCS | µg/L | **420** | **230** | **340** | - | **250** | - | - |
| Volatile Organic Compounds | 1,1,1-Trichloroethane | µg/L | <120U | **68J** | **30** | **26J** | **150** | **16J** | **1.1** |
| | 1,1,2,2-Tetrachloroethane | µg/L | <120U | <120U | <1.1U | <2.1U | <2.1U | <0.84U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <120U | <120U | <1.2U | <2.3U | <2.3U | <0.92U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **58J** | **44J** | **21J** | **28J** | **94** | **17J** | **9.5** |
| | 1,1-Dichloroethene | µg/L | <120U | <120U | <1.5U | <2.9U | **6.3J** | <1.2U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **48J** | **37J** | **28** | **44J** | **32J** | **27** | **14** |
| | 1,2-Dichloroethane | µg/L | <120U | <120U | <1.1U | <2.1U | <2.1U | **1.5J** | **0.56J** |
| | 1,2-Dichloropropane | µg/L | <120U | <120U | <3.6U | <7.2U | <7.2U | <2.9U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <120U | <120U | **18J** | **27J** | **22J** | **20** | **16** |
| | 1,4-Dichlorobenzene | µg/L | **190** | **250** | **140** | **230** | **150** | **160** | **80** |
| | 2-Butanone | µg/L | <120U | <120U | **39** | <13U | **47J** | <5.3U | <1.3U |
| | 2-Hexanone | µg/L | <120U | <120U | <6.2U | <12U | <12U | <5U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | **78J** | <120U | **15J** | <21U | <21U | <8.4U | **3J** |
| | Acetone | µg/L | <250U | <250U | **22J** | <30U | <30U | <12U | **7.6J** |
| | Benzene | µg/L | **38J** | **36J** | **18J** | **21J** | **14J** | **15J** | **2.8** |
| | Dichlorobromomethane | µg/L | <120U | <120U | <2U | <3.9U | <3.9U | <1.6U | <0.39U |
| | Bromoform | µg/L | <120U | <120U | <1.3U | <2.6U | <2.6U | <1U | <0.26U |
| | Bromomethane | µg/L | <120U | <120U | <3.5U | <6.9U | <6.9U | <2.8U | <0.69U |
| | Carbon Disulfide | µg/L | <120U | <120U | <0.95U | <1.9U | <1.9U | <0.76U | **0.84J** |
| | Carbon Tetrachloride | µg/L | <120U | <120U | <1.4U | <2.7U | <2.7U | <1.1U | <0.27U |
| | Chlorobenzene | µg/L | **150** | **90J** | **110** | **160** | **87** | **92** | **21** |
| | Chlorodibromomethane | µg/L | <120U | <120U | <1.6U | <3.2U | <3.2U | <1.3U | <0.32U |
| | Chloroethane | µg/L | <120U | <120U | <1.6U | <3.2U | <3.2U | <1.3U | <0.32U |
| | Chloroform | µg/L | <120U | <120U | **2.8J** | <3.4U | **26J** | <1.4U | **0.73J** |
| | Chloromethane | µg/L | <120U | <120U | <1.8U | <3.5U | <3.5U | <1.4U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **550** | **650** | **140** | **190** | **800** | **100** | **7.8** |
| | cis-1,3-Dichloropropene | µg/L | <120U | <120U | <1.8U | <3.6U | <3.6U | <1.4U | <0.36U |
| | Methylene Chloride | µg/L | <120U | <120U | <5U | <4.4U | **4.9J** | <1.8U | <0.44U |
| | Ethylbenzene | µg/L | **170** | **170** | **130** | **93** | **130** | **60** | **10** |
| | Styrene | µg/L | <120U | <120U | <3.7U | <7.3U | <7.3U | <2.9U | <0.73U |
| | Trichloroethene | µg/L | <120U | **16J** | <2.3U | <4.6U | **71** | **2.3J** | <0.46U |
| | Tetrachloroethene | µg/L | <120U | <120U | <1.8U | <3.6U | **8.5J** | <1.4U | <0.36U |
| | Toluene | µg/L | **1900** | **1500** | **1300** | **620J** | **2700** | **130** | **21** |
| | trans-1,2-Dichloroethene | µg/L | <25U | <25U | <4.5U | <9U | <9U | <3.6U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <120U | <120U | <1.9U | <3.7U | <3.7U | <1.5U | <0.37U |
| | Vinyl Chloride | µg/L | **270** | **200** | **71** | **130** | **390** | **47** | <0.9U |
| | Total Xylenes | µg/L | **670** | **650** | **500** | **400** | **500** | **250** | **52** |
| | Total VOCS | µg/L | **4200** | **3800** | **2600** | **2000** | **5300** | **940** | **280** |

**EX-1**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 1/22/2015 | 2/26/2015 | 3/19/2015 | 4/22/2015 | 7/27/2015 | 10/19/2015 | 5/16/2016 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | - | - | - | <4U | **47.7** | **85.3J** | **57.9J** |
| | Ammonia | mg/L | - | - | - | **5.4** | **6.6** | **7.3** | **5.7** |
| | Nitrate+Nitrite | mg/L | - | - | - | <0.02U | <0.02U | <0.02U | <0.02U |
| | Sulfate | mg/L | - | - | - | **83.5** | **130** | **76.1** | **105** |
| | Total Organic Carbon | mg/L | - | - | - | **10J** | **4.9** | **3.8J** | **4.9** |
| Metals | Arsenic | µg/L | - | - | - | **25** | **82** | **83** | **18** |
| | Iron | µg/L | **32,000J** | **49,000** | **35,000** | **31,300J** | **59,700** | **45,500** | **21,000** |
| | Manganese | µg/L | - | - | - | **8,300** | **20,000J** | **13,900** | **11,800** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | - | - | **19** | - | - | **40** |
| | 1,2-Dichlorobenzene | µg/L | - | - | - | **7.7J** | - | - | **3.3** |
| | 1,3-Dichlorobenzene | µg/L | - | - | - | **11J** | - | - | **8.4** |
| | 1,4-Dichlorobenzene | µg/L | - | - | - | **41** | - | - | **16** |
| | 1,4-Dioxane | µg/L | - | - | - | **17J** | - | - | **19** |
| | 2,4,5-Trichlorophenol | µg/L | - | - | - | <4.5U | - | - | <0.44U |
| | 2,4,6-Trichlorophenol | µg/L | - | - | - | <5.7U | - | - | <0.56U |
| | 2,4-Dichlorophenol | µg/L | - | - | - | <4.8U | - | - | <0.47U |
| | 2,4-Dimethylphenol | µg/L | - | - | - | <4.7U | - | - | <0.46U |
| | 2,4-Dinitrophenol | µg/L | - | - | - | <21U | - | - | <2.1U |
| | 2,4-Dinitrotoluene | µg/L | - | - | - | <4.2U | - | - | <0.41U |
| | 2,6-Dinitrotoluene | µg/L | - | - | - | <3.8U | - | - | <0.37U |
| | 2-Chloronaphthalene | µg/L | - | - | - | <4.3U | - | - | <0.43U |
| | 2-Chlorophenol | µg/L | - | - | - | <5U | - | - | <0.49U |
| | 2-Methylnaphthalene | µg/L | - | - | - | <5.6U | - | - | <0.55U |
| | 2-Methylphenol | µg/L | - | - | - | **16J** | - | - | **5.9J** |
| | 2-Nitroaniline | µg/L | - | - | - | <3.9U | - | - | <0.39U |
| | 2-Nitrophenol | µg/L | - | - | - | <4.5U | - | - | <0.44U |
| | 3,3-Dichlorobenzidine | µg/L | - | - | - | <3.8UJ | - | - | <0.37U |
| | 3-Nitroaniline | µg/L | - | - | - | <4.5U | - | - | <0.44U |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | - | - | <21U | - | - | <2U |
| | 4-Bromophenyl phenyl ether | µg/L | - | - | - | <4.2U | - | - | <0.42U |
| | 4-Chloro-3-Methylphenol | µg/L | - | - | - | <4.2U | - | - | <0.42U |
| | 4-Chloroaniline | µg/L | - | - | - | <5.5U | - | - | <0.55U |
| | 4-Chlorophenyl phenyl ether | µg/L | - | - | - | <3.3U | - | - | <0.32U |
| | 4-Methylphenol | µg/L | - | - | - | **18J** | - | - | **1.5J** |
| | 4-Nitroaniline | µg/L | - | - | - | <2.3U | - | - | <0.23U |
| | 4-Nitrophenol | µg/L | - | - | - | <14U | - | - | <1.4U |
| | Acenaphthene | µg/L | - | - | - | <3.8U | - | - | **0.65J** |
| | Acenaphthylene | µg/L | - | - | - | <3.6U | - | - | <0.35U |
| | Anthracene | µg/L | - | - | - | <2.6U | - | - | <0.26U |
| | Benz(a)anthracene | µg/L | - | - | - | <3.4U | - | - | <0.33U |
| | Benzo(a)pyrene | µg/L | - | - | - | <4.4U | - | - | <0.43U |
| | Benzo(b)fluoranthene | µg/L | - | - | - | <3.2U | - | - | <0.31U |
| | Benzo(g,h,i)perylene | µg/L | - | - | - | <3.3U | - | - | <0.32U |
| | Benzo(k)fluoranthene | µg/L | - | - | - | <6.8U | - | - | <0.67U |
| | Benzoic acid | µg/L | - | - | - | <940U | - | - | - |
| | Benzyl alcohol | µg/L | - | - | - | <4.1U | - | - | <6.5U |
| | Bis(2-chloroethoxy) methane | µg/L | - | - | - | <3.3U | - | - | <0.32U |
| | Bis(2-chloroethyl)ether | µg/L | - | - | - | <3.8U | - | - | <0.37U |
| | Bis(2-chloroisopropyl) ether | µg/L | - | - | - | <4.9U | - | - | <0.48U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | - | - | <17U | - | - | <1.7U |
| | Butyl benzyl phthalate | µg/L | - | - | - | <3.9U | - | - | <0.39U |
| | Carbazole | µg/L | - | - | - | <2.8U | - | - | **0.28J** |
| | Chrysene | µg/L | - | - | - | <3.1U | - | - | <0.31U |
| | Dibenz(a,h)anthracene | µg/L | - | - | - | <3.9U | - | - | <0.39U |

**EX-1**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | | Sample Location | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 |
|---|---|---|---|---|---|---|---|---|---|
| | | Sample Date | 1/22/2015 | 2/26/2015 | 3/19/2015 | 4/22/2015 | 7/27/2015 | 10/19/2015 | 5/16/2016 |
| Parameters | | Units | | | | | | | |
| Semivolatile Organics | Dibenzofuran | µg/L | - | - | - | <4.8U | - | - | <0.47U |
| | Diethyl phthalate | µg/L | - | - | - | <2.1U | - | - | **0.55J** |
| | Dimethyl phthalate | µg/L | - | - | - | <3.4U | - | - | <0.33U |
| | Di-n-butyl phthalate | µg/L | - | - | - | **3.3J** | - | - | **0.68J** |
| | Di-n-octyl phthalate | µg/L | - | - | - | <4.4U | - | - | <0.43U |
| | Fluoranthene | µg/L | - | - | - | <3.8U | - | - | <0.37U |
| | Fluorene | µg/L | - | - | - | <3.4U | - | - | <0.33U |
| | Hexachlorobenzene | µg/L | - | - | - | <4.8U | - | - | <0.47U |
| | Hexachlorobutadiene | µg/L | - | - | - | <6.4U | - | - | <0.63U |
| | Hexachlorocyclopentadiene | µg/L | - | - | - | <5.5U | - | - | <0.55U |
| | Hexachloroethane | µg/L | - | - | - | <5.5U | - | - | <0.55U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | - | - | <4.4U | - | - | <0.43U |
| | Isophorone | µg/L | - | - | - | <4U | - | - | <0.4U |
| | Naphthalene | µg/L | - | - | - | **12J** | - | - | **1.6J** |
| | Nitrobenzene | µg/L | - | - | - | <2.7U | - | - | <0.27U |
| | N-nitrosodi-n-propylamine | µg/L | - | - | - | <5.1U | - | - | <0.5U |
| | N-Nitrosodiphenylamine | µg/L | - | - | - | <4.8U | - | - | <0.47U |
| | Pentachlorophenol | µg/L | - | - | - | <21U | - | - | <2U |
| | Phenanthrene | µg/L | - | - | - | <4.1U | - | - | <0.41U |
| | Phenol | µg/L | - | - | - | **12J** | - | - | <0.36UJ |
| | Pyrene | µg/L | - | - | - | <3.2U | - | - | <0.31U |
| | Total SVOCS | µg/L | - | - | - | **160** | - | - | **98** |
| Volatile Organic Compounds | 1,1,1-Trichloroethane | µg/L | **10** | <0.82U | **3.2** | **170** | **5** | **0.96J** | **120** |
| | 1,1,2,2-Tetrachloroethane | µg/L | **0.42J** | <0.21U | <0.21U | **1.6J** | <0.21U | <0.21U | **2.1J** |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.92U | <0.23U | <0.23U | <0.92U |
| | 1,1-Dichloroethane | µg/L | **6.4** | **2.3** | **4.1** | **19J** | **3.5J** | **2J** | **8.4J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | **2.6J** | <0.29U | <0.29U | **4.8J** |
| | 1,2-Dichlorobenzene | µg/L | **5.5** | **4.8** | **3.9** | **11J** | **9.1** | **6.9** | **4.4J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | **0.27J** | <0.21U | <0.84U | <0.21U | <0.21U | <0.84UJ |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <2.9U | <0.72U | <0.72U | <2.9U |
| | 1,3-Dichlorobenzene | µg/L | - | - | - | **16J** | **13** | **14** | **10J** |
| | 1,4-Dichlorobenzene | µg/L | **46** | **36** | **30** | **54** | **47** | **41** | **21** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <5.3U | <1.3U | <1.3U | <5.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <5U | <1.2U | <1.2U | <5U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <8.4U | <2.1U | <2.1U | <8.4U |
| | Acetone | µg/L | <10U | **3.7J** | <3U | **75** | **3.9J** | <3U | <12U |
| | Benzene | µg/L | **1.7** | **1.4** | **1.3** | **3.6J** | **3.4J** | **2.3J** | **3.3J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <1.6U | <0.39U | <0.39U | <1.6U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <1UJ | <0.26U | <0.26U | <1U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <2.8U | <0.69U | <0.69U | <2.8U |
| | Carbon Disulfide | µg/L | <0.19U | **0.44J** | <0.19U | <0.76U | <0.19U | <0.19U | <0.76U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <1.1U | <0.27U | <0.27U | <1.1U |
| | Chlorobenzene | µg/L | **7.3** | **6.6** | **5.2** | **17J** | **31** | **24** | **9.2J** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <1.3U | <0.32U | <0.32U | <1.3U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <1.3U | <0.32U | <0.32U | <1.3U |
| | Chloroform | µg/L | **0.9J** | <0.34U | <0.34U | **17J** | **0.81J** | <0.34U | **13J** |
| | Chloromethane | µg/L | <0.35U | <0.35U | **0.39J** | <1.4U | <0.35UJ | <0.35U | <1.4U |
| | cis-1,2-Dichloroethene | µg/L | **37** | **2.9** | **7.6** | **1100** | **38** | **12** | **1500J** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <1.4U | <0.36U | <0.36U | <1.4U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <1.8U | <0.44U | <0.44U | <1.8U |
| | Ethylbenzene | µg/L | **7.6** | **4.3** | **5.3** | **52** | **7.8** | **3.8J** | **15J** |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <2.9U | <0.73U | <0.73U | <2.9U |
| | Trichloroethene | µg/L | **3.5** | **0.74J** | **0.67J** | **610** | **17** | **1.1J** | **790** |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | **33** | **2.2J** | <0.36U | **46** |
| | Toluene | µg/L | **32** | **2.2** | **9.7** | **790** | **0.83J** | <0.51U | **290** |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <3.6U | <0.9U | <0.9U | <3.6U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <1.5U | <0.37U | <0.37U | <1.5U |
| | Vinyl Chloride | µg/L | **4.5** | <0.9U | **0.93J** | **59** | **6.9** | **3.2J** | **85** |
| | Total Xylenes | µg/L | **17** | **5** | **6.9** | **170** | **11** | <0.66U | **46** |
| | Total VOCS | µg/L | **200** | **76** | **87** | **3200** | **210** | **120** | **3000** |

**EX-1**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 7/18/2016 | 10/26/2016 | 4/24/2017 | 7/31/2017 | 10/17/2017 | 5/7/2018 | 7/19/2018 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **8.5** | **6.9** | **10.7J** | **16.6J+** | **18.8** | **26.7J+** | **27.8** |
| | Ammonia | mg/L | **6.2** | **5.6** | **3.1** | **2.5** | **2.1** | **2.7** | **3.3J+** |
| | Nitrate+Nitrite | mg/L | **0.25** | **1.2** | **0.34** | **0.25** | **1.3J-** | <0.02U | <0.02U |
| | Sulfate | mg/L | **128** | **105** | **74.9** | **142** | **122** | **81.7** | **146** |
| | Total Organic Carbon | mg/L | **3.3** | **2.8** | **3.5** | **4.0** | **3.7** | **7.7** | **7.0** |
| Metals | Arsenic | µg/L | **22** | **18** | **22** | **10** | **23** | **37** | **47** |
| | Iron | µg/L | **11,900** | **9,800** | **10,400** | **15,200** | **13,600** | **32,800** | **38,500** |
| | Manganese | µg/L | **17,800** | **16,000** | **13,300** | **26,000** | **21,600** | **18,400** | **26,600** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | - | **9.1** | - | - | **29** | - |
| | 1,2-Dichlorobenzene | µg/L | - | - | **1.4J** | - | - | **4.2** | - |
| | 1,3-Dichlorobenzene | µg/L | - | - | **3.7** | - | - | **6.5** | - |
| | 1,4-Dichlorobenzene | µg/L | - | - | **6.8** | - | - | **21** | - |
| | 1,4-Dioxane | µg/L | - | - | **11** | - | - | **22** | - |
| | 2,4,5-Trichlorophenol | µg/L | - | - | <0.48U | - | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | - | - | <0.61U | - | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | - | - | <0.51U | - | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | - | - | <0.5U | - | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | - | - | <2.2U | - | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | - | - | <0.45U | - | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | - | - | <0.4U | - | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | - | - | <0.46U | - | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | - | - | <0.53U | - | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | - | - | <0.6U | - | - | **1.5J** | - |
| | 2-Methylphenol | µg/L | - | - | **1.7J** | - | - | **3.2J** | - |
| | 2-Nitroaniline | µg/L | - | - | <0.42U | - | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | - | - | <0.48U | - | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | - | - | <0.4U | - | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | - | - | <0.48U | - | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | - | <2.2U | - | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | - | <0.45U | - | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | - | <0.45U | - | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | - | - | <0.59U | - | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | - | <0.35U | - | - | <0.35U | - |
| | 4-Methylphenol | µg/L | - | - | **0.46J** | - | - | **1.9J** | - |
| | 4-Nitroaniline | µg/L | - | - | <0.25U | - | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | - | - | <1.5U | - | - | <1.5U | - |
| | Acenaphthene | µg/L | - | - | <0.41U | - | - | **0.79J** | - |
| | Acenaphthylene | µg/L | - | - | <0.38U | - | - | <0.38U | - |
| | Anthracene | µg/L | - | - | <0.28U | - | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | - | - | <0.36U | - | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | - | - | <0.47U | - | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | - | - | <0.34U | - | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | - | - | <0.35U | - | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | - | - | <0.73U | - | - | <0.73U | - |
| | Benzoic acid | µg/L | - | - | <100U | - | - | <100U | - |
| | Benzyl alcohol | µg/L | - | - | <0.44UJ | - | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | - | <0.35U | - | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | - | - | <0.4U | - | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | - | <0.52U | - | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | - | <1.8U | - | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | - | - | **0.61J** | - | - | <0.42U | - |
| | Carbazole | µg/L | - | - | <0.3U | - | - | <0.3U | - |
| | Chrysene | µg/L | - | - | <0.33U | - | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | - | - | <0.42U | - | - | <0.42U | - |

**EX-1**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 7/18/2016 | 10/26/2016 | 4/24/2017 | 7/31/2017 | 10/17/2017 | 5/7/2018 | 7/19/2018 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Dibenzofuran | µg/L | - | - | <0.51U | - | - | <0.51U | - |
| | Diethyl phthalate | µg/L | - | - | **0.38J** | - | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | - | - | <0.36U | - | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | - | - | **0.56J** | - | - | **0.7J** | - |
| | Di-n-octyl phthalate | µg/L | - | - | <0.47U | - | - | <0.47U | - |
| | Fluoranthene | µg/L | - | - | <0.4U | - | - | <0.4U | - |
| | Fluorene | µg/L | - | - | <0.36U | - | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | - | - | <0.51U | - | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | - | - | <0.68U | - | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | - | - | <0.59U | - | - | <0.59U | - |
| | Hexachloroethane | µg/L | - | - | <0.59U | - | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | - | <0.47U | - | - | <0.47U | - |
| | Isophorone | µg/L | - | - | <0.43U | - | - | **1.8J** | - |
| | Naphthalene | µg/L | - | - | <0.76U | - | - | **4.3** | - |
| | Nitrobenzene | µg/L | - | - | <0.29U | - | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | - | - | <0.54U | - | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | - | - | <0.51U | - | - | <0.51U | - |
| | Pentachlorophenol | µg/L | - | - | <2.2U | - | - | <2.2U | - |
| | Phenanthrene | µg/L | - | - | <0.44U | - | - | <0.44U | - |
| | Phenol | µg/L | - | - | <0.39U | - | - | **1.5J** | - |
| | Pyrene | µg/L | - | - | <0.34U | - | - | <0.34U | - |
| | Total SVOCS | µg/L | - | - | **36** | - | - | **99** | - |
| Volatile Organic Compounds | 1,1,1-Trichloroethane | µg/L | **10J** | **3J** | **36** | <6.6U | **1.3J** | **12** | **5.2** |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.84U | **0.64J** | **1.1J** | <1.7U | <0.21U | <0.42U | **0.96J** |
| | 1,1,2-Trichloroethane | µg/L | <0.92U | <0.23U | <0.23U | <1.8U | <0.23U | <0.46U | **0.29J** |
| | 1,1-Dichloroethane | µg/L | **2J** | **1.4J** | **7.6** | <3U | **1.6J** | **13** | **8.5** |
| | 1,1-Dichloroethene | µg/L | <1.2U | <0.29U | **4.6J** | <2.3U | <0.29U | **0.69J** | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <3.2U | **0.87J** | **1.6J** | <6.3U | **0.98J** | **5.9J** | **7.3** |
| | 1,2-Dichloroethane | µg/L | <0.84U | <0.21U | <0.21U | <1.7U | <0.21U | <0.42U | **0.64J** |
| | 1,2-Dichloropropane | µg/L | <2.9U | <0.72U | <0.72U | <5.8U | <0.72U | <1.4U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **4.1J** | **4.5J** | **4.6J** | <6.2U | **4.6J** | **9.9J** | **9.2** |
| | 1,4-Dichlorobenzene | µg/L | **5.6J** | **4J** | **8.1** | <6.7U | **5** | **30** | **31** |
| | 2-Butanone | µg/L | <5.3U | <1.3U | <1.3U | <11U | <1.3U | <2.6U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <1.2U | <1.2U | <9.9U | <1.2U | <2.5U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <8.4U | <2.1U | <2.1U | <17U | <2.1U | <4.2U | <2.1U |
| | Acetone | µg/L | <12U | <3U | **4.1J** | <24U | **6.2J** | **16J** | **6.1J** |
| | Benzene | µg/L | <1.6UJ | <0.41U | **0.68J** | <3.3U | <0.41U | **1.3J** | **2.7J** |
| | Dichlorobromomethane | µg/L | <1.6U | <0.39U | <0.39U | <3.1U | <0.39U | <0.78U | <0.39U |
| | Bromoform | µg/L | <1U | <0.26U | <0.26U | <2.1U | <0.26U | <0.52U | <0.26U |
| | Bromomethane | µg/L | <2.8U | <0.69U | <0.69U | <5.5U | <0.69U | <1.4U | <0.69U |
| | Carbon Disulfide | µg/L | **1J** | **1.3J** | **3.1J** | <1.5U | **2.4J** | <0.38U | <0.19U |
| | Carbon Tetrachloride | µg/L | <1.1U | <0.27U | <0.27U | <2.2U | <0.27U | <0.54U | <0.27U |
| | Chlorobenzene | µg/L | <3U | **1.7J** | **5** | <6U | **3.6J** | **12** | **16** |
| | Chlorodibromomethane | µg/L | <1.3U | <0.32U | <0.32U | <2.6U | <0.32U | <0.64U | <0.32U |
| | Chloroethane | µg/L | <1.3U | <0.32U | <0.32U | <2.6U | <0.32U | <0.64U | <0.32U |
| | Chloroform | µg/L | <1.4U | <0.34U | **3J** | <2.7U | <0.34U | **1.1J** | <1.9U |
| | Chloromethane | µg/L | <1.4U | <0.35U | <0.35U | <2.8U | <0.35U | <0.7U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **100J** | **32** | **350** | **16** | **13** | **190** | **67** |
| | cis-1,3-Dichloropropene | µg/L | <1.4U | <0.36U | <0.36U | <2.9U | <0.36U | <0.72U | <0.36U |
| | Methylene Chloride | µg/L | <1.8U | <0.44U | <0.44U | <3.5U | <0.44U | <0.88U | **0.56J** |
| | Ethylbenzene | µg/L | <3U | <0.74U | **3.1J** | <5.9U | <0.74U | **5.5J** | **1.1J** |
| | Styrene | µg/L | <2.9U | <0.73U | <0.73U | <5.8U | <0.73U | <1.5U | <0.73U |
| | Trichloroethene | µg/L | **49** | **14** | **170** | **4.7J** | **2.1J** | **7.5J** | **62** |
| | Tetrachloroethene | µg/L | **5.4J** | **2.8J** | **23** | <2.9U | **0.54J** | **3.4J** | **6.7** |
| | Toluene | µg/L | **7.6J** | <0.51U | **42** | <4.1U | <0.51U | **2J** | **0.58J** |
| | trans-1,2-Dichloroethene | µg/L | <3.6U | <0.9U | <0.9U | <7.2U | <0.9U | <1.8U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <1.5U | <0.37U | <0.37U | <3U | <0.37U | <0.74U | <0.37U |
| | Vinyl Chloride | µg/L | **8.8J** | <0.9U | **20** | <7.2U | <0.9U | **40** | **11** |
| | Total Xylenes | µg/L | <2.6U | <0.66U | **10** | <5.3U | <0.66U | **7.6J** | **1.1J** |
| | Total VOCS | µg/L | **200** | **67** | **700** | **21** | **42** | **360** | **240** |

**EX-1**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/15/2018 | 4/22/2019 | 7/22/2019 | 10/7/2019 | 4/29/2020 | 7/7/2020 | 10/19/2020 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **56.1** | **98.4** | **63.3** | **93.1** | **83.5** | **75.2** | **93.7** |
| | Ammonia | mg/L | **3.4** | **3.2** | **2.6** | **3.2** | **2.8** | **2.9** | **3.4** |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.02U | **0.064** | **0.029U** | **3** | <0.031U | **0.089J** |
| | Sulfate | mg/L | **82.6** | **25** | **52** | **67.6** | 20 | **35.3** | **46.9** |
| | Total Organic Carbon | mg/L | **6.1** | **10.6J** | **11.1** | **9.2** | **6.1** | **7.6** | **6.2** |
| Metals | Arsenic | µg/L | **60** | **87** | **110** | **94** | **52** | **79** | **78** |
| | Iron | µg/L | **39,600** | **38,000** | **46,000** | **47,400** | **20,800** | **40,800** | **42,500** |
| | Manganese | µg/L | **21,000** | **14,000** | **18,600** | **19,600** | **7900** | **15,500** | **17,500** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | **30** | - | - | **40** | - | - |
| | 1,2-Dichlorobenzene | µg/L | - | **9.4** | - | - | **12** | - | - |
| | 1,3-Dichlorobenzene | µg/L | - | **12** | - | - | **23** | - | - |
| | 1,4-Dichlorobenzene | µg/L | - | **51** | - | - | **58** | - | - |
| | 1,4-Dioxane | µg/L | - | **6.3J** | - | - | **16** | - | - |
| | 2,4,5-Trichlorophenol | µg/L | - | <0.48U | - | - | **0.55J** | - | - |
| | 2,4,6-Trichlorophenol | µg/L | - | <0.61U | - | - | <0.61U | - | - |
| | 2,4-Dichlorophenol | µg/L | - | <0.51U | - | - | **0.82J** | - | - |
| | 2,4-Dimethylphenol | µg/L | - | **1.6J** | - | - | **0.72J** | - | - |
| | 2,4-Dinitrophenol | µg/L | - | <2.2U | - | - | <2.2U | - | - |
| | 2,4-Dinitrotoluene | µg/L | - | <0.45U | - | - | <0.45U | - | - |
| | 2,6-Dinitrotoluene | µg/L | - | <0.4U | - | - | <0.4U | - | - |
| | 2-Chloronaphthalene | µg/L | - | <0.46U | - | - | <0.46U | - | - |
| | 2-Chlorophenol | µg/L | - | <0.53U | - | - | <0.53U | - | - |
| | 2-Methylnaphthalene | µg/L | - | **3J** | - | - | <0.6U | - | - |
| | 2-Methylphenol | µg/L | - | **5.5J** | - | - | **1.0J** | - | - |
| | 2-Nitroaniline | µg/L | - | <0.42U | - | - | <0.42U | - | - |
| | 2-Nitrophenol | µg/L | - | <0.48U | - | - | <0.48U | - | - |
| | 3,3-Dichlorobenzidine | µg/L | - | <0.4U | - | - | <0.4U | - | - |
| | 3-Nitroaniline | µg/L | - | <0.48U | - | - | <0.48U | - | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | <2.2U | - | - | <2.2U | - | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | <0.45U | - | - | <0.45U | - | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | <0.45U | - | - | <0.45U | - | - |
| | 4-Chloroaniline | µg/L | - | <0.59U | - | - | <0.59U | - | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | <0.35U | - | - | <0.35U | - | - |
| | 4-Methylphenol | µg/L | - | **4.6J** | - | - | <0.36U | - | - |
| | 4-Nitroaniline | µg/L | - | <0.25U | - | - | <0.25U | - | - |
| | 4-Nitrophenol | µg/L | - | <1.5U | - | - | <1.5U | - | - |
| | Acenaphthene | µg/L | - | **0.92J** | - | - | **0.95J** | - | - |
| | Acenaphthylene | µg/L | - | <0.38U | - | - | <0.38U | - | - |
| | Anthracene | µg/L | - | <0.28U | - | - | <0.28U | - | - |
| | Benz(a)anthracene | µg/L | - | <0.36U | - | - | <0.36U | - | - |
| | Benzo(a)pyrene | µg/L | - | <0.47U | - | - | <0.47U | - | - |
| | Benzo(b)fluoranthene | µg/L | - | <0.34U | - | - | <0.34U | - | - |
| | Benzo(g,h,i)perylene | µg/L | - | <0.35U | - | - | <0.35U | - | - |
| | Benzo(k)fluoranthene | µg/L | - | <0.73U | - | - | <0.73U | - | - |
| | Benzoic acid | µg/L | - | <100U | - | - | <100U | - | - |
| | Benzyl alcohol | µg/L | - | <0.44U | - | - | <0.44U | - | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | <0.35U | - | - | <0.35U | - | - |
| | Bis(2-chloroethyl)ether | µg/L | - | <0.4U | - | - | <0.40U | - | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | <0.52U | - | - | <0.52U | - | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | <1.8U | - | - | <1.8U | - | - |
| | Butyl benzyl phthalate | µg/L | - | <0.45U | - | - | <0.42U | - | - |
| | Carbazole | µg/L | - | **0.33J** | - | - | <0.3U | - | - |
| | Chrysene | µg/L | - | <0.33U | - | - | <0.33U | - | - |
| | Dibenz(a,h)anthracene | µg/L | - | <0.42U | - | - | <0.42U | - | - |

**EX-1**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/15/2018 | 4/22/2019 | 7/22/2019 | 10/7/2019 | 4/29/2020 | 7/7/2020 | 10/19/2020 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Dibenzofuran | µg/L | - | <0.51U | - | - | <0.51U | - | - |
| | Diethyl phthalate | µg/L | - | <0.22U | - | - | **0.31J** | - | - |
| | Dimethyl phthalate | µg/L | - | <0.36U | - | - | <0.36U | - | - |
| | Di-n-butyl phthalate | µg/L | - | **0.75J** | - | - | **0.82J** | - | - |
| | Di-n-octyl phthalate | µg/L | - | <0.47U | - | - | <0.47U | - | - |
| | Fluoranthene | µg/L | - | <0.4U | - | - | <0.40U | - | - |
| | Fluorene | µg/L | - | **0.36J** | - | - | <0.36U | - | - |
| | Hexachlorobenzene | µg/L | - | <0.51U | - | - | <0.51U | - | - |
| | Hexachlorobutadiene | µg/L | - | <0.68U | - | - | **0.84J** | - | - |
| | Hexachlorocyclopentadiene | µg/L | - | <0.59U | - | - | <0.59U | - | - |
| | Hexachloroethane | µg/L | - | <0.59U | - | - | <0.59U | - | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | <0.47U | - | - | <0.47U | - | - |
| | Isophorone | µg/L | - | **1.9J** | - | - | <0.43U | - | - |
| | Naphthalene | µg/L | - | **8.9** | - | - | **1.2J** | - | - |
| | Nitrobenzene | µg/L | - | <0.29U | - | - | <0.29U | - | - |
| | N-nitrosodi-n-propylamine | µg/L | - | <0.54U | - | - | <0.54U | - | - |
| | N-Nitrosodiphenylamine | µg/L | - | <0.51U | - | - | <0.51U | - | - |
| | Pentachlorophenol | µg/L | - | <2.2U | - | - | <2.2U | - | - |
| | Phenanthrene | µg/L | - | <0.44U | - | - | **0.48J** | - | - |
| | Phenol | µg/L | - | **1.2J** | - | - | **0.41J** | - | - |
| | Pyrene | µg/L | - | <0.34U | - | - | <0.34U | - | - |
| | Total SVOCS | µg/L | - | **140** | - | - | **160** | - | - |
| Volatile Organic Compounds | 1,1,1-Trichloroethane | µg/L | **7.8** | **11J** | **9.5J** | <8.2U | **2.8J** | **5.8** | <6.6U |
| | 1,1,2,2-Tetrachloroethane | µg/L | **0.55J** | <0.84U | **3.3J** | **2.5J** | <0.21U | **1.5J** | <1.7U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.92U | <0.92U | <2.3U | <0.23U | **0.29J** | <1.8UJ |
| | 1,1-Dichloroethane | µg/L | **12** | **26** | **25** | **16J** | **7.6** | **18** | **13J** |
| | 1,1-Dichloroethene | µg/L | **0.3J** | <1.2U | <1.2U | <2.9U | <0.29U | **0.82J** | <2.3U |
| | 1,2-Dichlorobenzene | µg/L | **7.5** | **9.9J** | **26** | **24J** | **10** | **24** | **21J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.84U | <0.84U | <2.1U | **0.32J** | **1.1J** | <1.7U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <2.9U | <2.9U | <7.2U | <0.72U | <0.72U | <5.8UJ |
| | 1,3-Dichlorobenzene | µg/L | **12** | **13J** | **20** | **17J** | **21** | **24** | **19J** |
| | 1,4-Dichlorobenzene | µg/L | **34** | **66** | **120** | **110** | **57** | **110** | **100J** |
| | 2-Butanone | µg/L | <1.3U | **7.8J** | <5.3U | <13U | <1.3U | <1.3U | <11U |
| | 2-Hexanone | µg/L | <1.2U | <5U | <5U | <12U | <1.2U | <1.2U | <9.9U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <8.4U | <8.4U | <21U | <2.1U | **2.3J** | <17U |
| | Acetone | µg/L | <3U | <12U | <12U | <30U | 4.9U | **3.3J** | <24U |
| | Benzene | µg/L | **2.2J** | **2.1J** | **9.8J** | **8.6J** | **3.2J** | **12** | **8.6J** |
| | Dichlorobromomethane | µg/L | <0.39U | <1.6U | <1.6U | <3.9U | <0.39U | <0.39U | <3.0.1UJ |
| | Bromoform | µg/L | <0.26U | <1U | <1U | <2.6U | <0.26U | <0.26U | <2.1UJ |
| | Bromomethane | µg/L | <0.69U | <2.8U | <2.8U | <6.9U | <0.69U | <0.69U | <5.5U |
| | Carbon Disulfide | µg/L | <0.19U | <0.76U | <0.76U | <1.9U | <0.19U | <0.19U | <1.5U |
| | Carbon Tetrachloride | µg/L | <0.27U | <1.1U | <1.1U | <2.7U | <0.27U | <0.27U | <2.2U |
| | Chlorobenzene | µg/L | **15** | **21** | **34** | **57** | **39** | **69** | **64J** |
| | Chlorodibromomethane | µg/L | <0.32U | <1.3U | <1.3U | <3.2U | <0.32U | <0.32U | <2.6UJ |
| | Chloroethane | µg/L | <0.32U | <1.3U | <1.3U | <3.2U | <0.32U | <0.32U | <2.6U |
| | Chloroform | µg/L | **1.2J** | **2.5J** | **8J** | **5.4J** | **0.85J** | **1.6J** | <2.7U |
| | Chloromethane | µg/L | <0.35U | <1.4U | <1.4U | <3.5U | <0.35U | <0.35U | <2.8UJ |
| | cis-1,2-Dichloroethene | µg/L | **85** | **42** | **460J** | **320** | **35** | **420** | **250J** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <1.4U | <1.4U | <3.6U | <0.36U | <0.36U | <2.9UJ |
| | Methylene Chloride | µg/L | <0.44U | <1.8U | <1.8U | **6.3J** | <0.44U | <0.44U | <3.0.5U |
| | Ethylbenzene | µg/L | **2.7J** | **23** | **11J** | <7.4U | **8.6** | **8.9** | <5.9U |
| | Styrene | µg/L | <0.73U | <2.9U | <2.9U | <7.3U | <0.73U | <0.73U | <5.8UJ |
| | Trichloroethene | µg/L | **6.5** | <1.8U | **70** | **53** | **4.1J** | **27** | <3.0.7UJ |
| | Tetrachloroethene | µg/L | **2.4J** | **2.2J** | **10J** | **7.8J** | **1.1J** | **6.9** | <2.9U |
| | Toluene | µg/L | **32** | **98** | **4.3J** | <5.1U | **3.1J** | **5.8** | <4.1U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <3.6U | <3.6U | <9U | <0.9U | **1.3** | <7.2U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <1.5U | <1.5U | <3.7U | <0.37U | <0.37U | <3.0UJ |
| | Vinyl Chloride | µg/L | **21** | **18J** | **63** | **52** | **8.3** | **69** | **66J** |
| | Total Xylenes | µg/L | **6.2** | **40** | **3.9J** | <6.6U | **2.7J** | **3.7J** | <5.3U |
| | Total VOCS | µg/L | **250** | **390** | **880** | **680** | **210** | **820** | **550** |

**EX-1**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/26/2021 | 7/19/2021 | 10/25/2021 | 4/19/2022 | 7/26/2022 | 10/25/2022 | 4/24/2023 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **97.1** | **94.3** | **91** | **91.9** | **136J-** | **135** | **97.2** |
| | Ammonia | mg/L | **2.5** | **4** | **3.2** | **0.26** | **2.9J-** | **3.2** | **2.6** |
| | Nitrate+Nitrite | mg/L | **0.028J** | <0.02U | **0.034J** | <0.02UJ | **0.41J-** | <0.02U | <0.02U |
| | Sulfate | mg/L | **12.6** | **31.7** | **14.8** | <1.5U | **19.5J-** | **26.8** | **4.3J** |
| | Total Organic Carbon | mg/L | **9.5** | **8.5** | **9.7** | **13.1** | **8.7J-** | **6.9** | **6.5** |
| Metals | Arsenic | µg/L | **58** | **75** | **57** | **51** | **64** | **69** | **50** |
| | Iron | µg/L | **33,800** | **38,700** | **39,900** | **32,300** | **39,000** | **41,600** | **28,700** |
| | Manganese | µg/L | **12,400** | **15,700** | **15,300** | **11,400** | **15,200** | **16,800** | **11,300** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **34** | - | - | **21** | - | - | **28** |
| | 1,2-Dichlorobenzene | µg/L | **14** | - | - | **26** | - | - | **17** |
| | 1,3-Dichlorobenzene | µg/L | **26** | - | - | **41** | - | - | **17** |
| | 1,4-Dichlorobenzene | µg/L | **64** | - | - | **53** | - | - | **70** |
| | 1,4-Dioxane | µg/L | **13** | - | - | **14** | - | - | **16** |
| | 2,4,5-Trichlorophenol | µg/L | **0.78J** | - | - | <0.48U | - | - | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | - | <0.61U | - | - | <0.61U |
| | 2,4-Dichlorophenol | µg/L | **1.2J** | - | - | <0.51U | - | - | **0.95J** |
| | 2,4-Dimethylphenol | µg/L | **2.1J** | - | - | **0.99J** | - | - | **2.7J** |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | - | <2.2U | - | - | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | - | <0.45U | - | - | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | - | <0.4U | - | - | <0.4U |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | - | <0.46U | - | - | <0.46U |
| | 2-Chlorophenol | µg/L | <0.53U | - | - | **0.73J** | - | - | <0.53U |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | - | **0.98J** | - | - | <0.6U |
| | 2-Methylphenol | µg/L | **3.2J** | - | - | **8.8J** | - | - | <0.4U |
| | 2-Nitroaniline | µg/L | <0.42U | - | - | <0.42U | - | - | <0.42U |
| | 2-Nitrophenol | µg/L | <0.48U | - | - | <0.48U | - | - | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | - | - | <0.4U | - | - | <0.4U |
| | 3-Nitroaniline | µg/L | <0.48U | - | - | <0.48U | - | - | <0.48U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | - | <2.2U | - | - | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | - | <0.45U | - | - | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | - | <0.45U | - | - | <0.45U |
| | 4-Chloroaniline | µg/L | <0.59U | - | - | <0.59U | - | - | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | - | <0.35U | - | - | <0.35U |
| | 4-Methylphenol | µg/L | 8.3J | - | - | **15** | - | - | <0.36U |
| | 4-Nitroaniline | µg/L | <0.25U | - | - | <0.25U | - | - | <0.25U |
| | 4-Nitrophenol | µg/L | <1.5U | - | - | <1.5U | - | - | <1.5U |
| | Acenaphthene | µg/L | 0.61J | - | - | **0.85J** | - | - | **0.5J** |
| | Acenaphthylene | µg/L | <0.38U | - | - | <0.38U | - | - | <0.38U |
| | Anthracene | µg/L | <0.28U | - | - | <0.28U | - | - | <0.28U |
| | Benz(a)anthracene | µg/L | <0.36U | - | - | <0.36U | - | - | <0.36U |
| | Benzo(a)pyrene | µg/L | <0.47U | - | - | <0.47U | - | - | <0.47U |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | - | <0.34U | - | - | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | - | <0.35U | - | - | <0.35U |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | - | <0.73U | - | - | <0.73U |
| | Benzoic acid | µg/L | <100U | - | - | <100U | - | - | <100U |
| | Benzyl alcohol | µg/L | <0.44U | - | - | <0.44U | - | - | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | - | <0.35U | - | - | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | - | <0.4U | - | - | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | - | <0.52U | - | - | <0.52U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | - | <1.8U | - | - | <1.8U |
| | Butyl benzyl phthalate | µg/L | <0.42U | - | - | <0.42U | - | - | <0.42U |
| | Carbazole | µg/L | <0.3U | - | - | <0.3U | - | - | <0.3U |
| | Chrysene | µg/L | <0.33U | - | - | <0.33U | - | - | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | - | <0.42U | - | - | <0.42U |

**EX-1**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/26/2021 | 7/19/2021 | 10/25/2021 | 4/19/2022 | 7/26/2022 | 10/25/2022 | 4/24/2023 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Dibenzofuran | µg/L | <0.51U | - | - | <0.51U | - | - | <0.51U |
| | Diethyl phthalate | µg/L | **0.29J** | - | - | <0.22U | - | - | **0.52J** |
| | Dimethyl phthalate | µg/L | <0.36U | - | - | <0.36U | - | - | <0.36U |
| | Di-n-butyl phthalate | µg/L | **0.56J** | - | - | <10U | - | - | **0.97J** |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | - | <0.47U | - | - | <0.47U |
| | Fluoranthene | µg/L | <0.4U | - | - | <0.4U | - | - | <0.4U |
| | Fluorene | µg/L | <0.36U | - | - | <0.36U | - | - | <0.36U |
| | Hexachlorobenzene | µg/L | <0.51U | - | - | <0.51U | - | - | <0.51U |
| | Hexachlorobutadiene | µg/L | **0.71J** | - | - | <0.68U | - | - | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | - | <0.59U | - | - | <0.59U |
| | Hexachloroethane | µg/L | <0.59U | - | - | <0.59U | - | - | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | - | <0.47U | - | - | <0.47U |
| | Isophorone | µg/L | **0.48J** | - | - | **0.61J** | - | - | **1.1J** |
| | Naphthalene | µg/L | **1.2J** | - | - | **4.6** | - | - | **1.1J** |
| | Nitrobenzene | µg/L | <0.29U | - | - | <0.29U | - | - | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | - | <0.54U | - | - | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | - | <0.51U | - | - | <0.51U |
| | Pentachlorophenol | µg/L | <2.2U | - | - | <2.2UJ | - | - | <2.2U |
| | Phenanthrene | µg/L | <0.44U | - | - | <0.44U | - | - | <0.44U |
| | Phenol | µg/L | <0.39U | - | - | **1.7J** | - | - | <0.39U |
| | Pyrene | µg/L | <0.34U | - | - | <0.34U | - | - | <0.34U |
| | Total SVOCS | µg/L | **180** | - | - | **190** | - | - | **160** |
| Volatile Organic Compounds | 1,1,1-Trichloroethane | µg/L | <6.6U | **2.1J** | **6.8J** | **18J** | **8.2J** | <4.1U | **6.3J** |
| | 1,1,2,2-Tetrachloroethane | µg/L | <1.7U | **0.59J** | **0.81J** | <1.1U | **1.9J** | <1.1U | <1.1U |
| | 1,1,2-Trichloroethane | µg/L | <1.8U | <0.46U | <0.46U | <1.2U | **0.43J** | <1.2U | <1.2U |
| | 1,1-Dichloroethane | µg/L | **22J** | **12** | **24** | **48** | **29J** | **14J** | **20J** |
| | 1,1-Dichloroethene | µg/L | <2.3U | <0.58U | <0.58U | <1.5U | **0.84J** | <1.5U | <1.5U |
| | 1,2-Dichlorobenzene | µg/L | **18J** | **17** | **20** | **31** | **50J** | **26** | **22J** |
| | 1,2-Dichloroethane | µg/L | <1.7U | <0.42U | **1.3J** | <1.1U | **1.6J** | <1.1U | <1.1U |
| | 1,2-Dichloropropane | µg/L | <5.8U | <1.4U | <1.4U | <3.6U | <0.72UJ | <3.6U | <3.6U |
| | 1,3-Dichlorobenzene | µg/L | **36J** | **20** | **28** | **54** | **37J** | **21J** | **23J** |
| | 1,4-Dichlorobenzene | µg/L | **88** | **83** | **83** | **69** | **220J** | **100** | **99** |
| | 2-Butanone | µg/L | <11U | <2.6U | <2.6U | **26** | <1.3UJ | <6.6U | <6.6U |
| | 2-Hexanone | µg/L | <9.9U | <2.5U | <2.5U | <6.2U | <1.2UJ | <6.2U | <6.2U |
| | 4-Methyl-2-pentanone | µg/L | <17U | <4.2U | <4.2U | **26** | <2.1UJ | <11U | <11U |
| | Acetone | µg/L | <24U | <6U | **9.5J** | **22J** | <3UJ | <15U | <15U |
| | Benzene | µg/L | **6.9J** | **8.2J** | **12** | **6.2J** | **20J** | **10J** | **12J** |
| | Dichlorobromomethane | µg/L | <3.1U | <0.78U | <0.78U | <2U | <0.39UJ | <2U | <2U |
| | Bromoform | µg/L | <2.1U | <0.52U | <0.52U | <1.3U | <0.26UJ | <1.3U | <1.3U |
| | Bromomethane | µg/L | <5.5U | <1.4U | <1.4U | <3.5U | <0.69UJ | <3.5U | <3.5U |
| | Carbon Disulfide | µg/L | <1.5U | <0.38U | <0.38U | <0.95U | <0.19UJ | <0.95U | <0.95U |
| | Carbon Tetrachloride | µg/L | <2.2U | <0.54U | <0.54U | <1.4U | <0.27UJ | <1.4U | <1.4U |
| | Chlorobenzene | µg/L | **100** | **78** | **79** | **210** | **180J** | **93** | **79** |
| | Chlorodibromomethane | µg/L | <2.6U | <0.64U | <0.64U | <1.6U | <0.32UJ | <1.6U | <1.6U |
| | Chloroethane | µg/L | <2.6U | <0.64U | <0.64U | <1.6U | <0.32UJ | <1.6U | <1.6U |
| | Chloroform | µg/L | **3.2J** | <0.68U | **3.9J** | **2.5J** | **4.2J** | <1.7U | **4.2J** |
| | Chloromethane | µg/L | <2.8U | <0.7U | <0.7U | <1.8U | <0.35UJ | <1.8U | <1.8U |
| | cis-1,2-Dichloroethene | µg/L | **170** | **100** | **280** | **45** | **590J** | **180** | **340** |
| | cis-1,3-Dichloropropene | µg/L | <2.9U | <0.72U | <0.72U | <1.8U | <0.36UJ | <1.8U | <1.8U |
| | Methylene Chloride | µg/L | <3.5U | <0.88U | <0.88U | <2.2U | <0.44UJ | <2.2U | <2.2U |
| | Ethylbenzene | µg/L | **14J** | **3.7J** | **15** | **35** | **23J** | **8.5J** | **20J** |
| | Styrene | µg/L | <5.8U | <1.5U | <1.5U | <3.7U | <0.73UJ | <3.7U | <3.7U |
| | Trichloroethene | µg/L | **12J** | **4.8J** | **15** | <2.3U | **4.7J** | <2.3U | **4.5J** |
| | Tetrachloroethene | µg/L | <2.9U | **0.77J** | **2.1J** | <1.8U | **1.3J** | <1.8U | <1.8U |
| | Toluene | µg/L | **34J** | **1.4J** | **14** | **450** | **11J** | **3.1J** | **11J** |
| | trans-1,2-Dichloroethene | µg/L | <7.2U | <1.8U | <1.8U | <4.5U | **1.5J** | <4.5U | <4.5U |
| | trans-1,3-Dichloropropene | µg/L | <3U | <0.74U | <0.74U | <1.9U | <0.37UJ | <1.9U | <1.9U |
| | Vinyl Chloride | µg/L | **17J** | **59** | **47** | **45** | **160J** | **58** | **66** |
| | Total Xylenes | µg/L | **15J** | <1.3U | **15** | **92** | **12J** | <3.3U | **16J** |
| | Total VOCS | µg/L | **540** | **400** | **660** | **1200** | **1,400** | **520** | **730** |

**EX-1**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 8/1/2023 | 10/30/2023 | 4/30/2024 | 7/29/2024 | 10/28/2024 | 4/20/2025 | 7/30/2025 | 10/22/2025 |
| | **Parameters** | **Units** | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **97** | **92.9** | **141J-** | **60.2** | <20U | **69.7** | **133** | **132** |
| | Ammonia | mg/L | **2.7** | **2.7** | **3.9** | **1.6** | **1.2** | **1.8** | **1.1** | **2** |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.05U | **0.046J** | <0.02U | <0.02UR | **0.031J** | **0.035J** | **0.021J** |
| | Sulfate | mg/L | **10.4** | **5.2** | <2.4U | **8.8** | **11.5** | **2.7J** | **3.5J** | **7.1** |
| | Total Organic Carbon | mg/L | **4.2** | **4.2** | **29** | **5.4** | **6.4** | **3** | **6.4** | **4.8** |
| Metals | Arsenic | µg/L | **57** | **52** | **39** | **71** | **60** | **39** | **59** | **62** |
| | Iron | µg/L | **30,200** | **27,400** | **38,600** | **36,900** | **35,300** | **25,400** | **41,200** | **43,300** |
| | Manganese | µg/L | **11,500** | **11,200** | **16,500** | **15,900** | **14,200** | **9,100** | **15,700** | **16,400** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | - | <0.44U | - | - | **17J** | - | - |
| | 1,2-Dichlorobenzene | µg/L | - | - | **17** | - | - | **15J** | - | - |
| | 1,3-Dichlorobenzene | µg/L | - | - | **25** | - | - | **17J** | - | - |
| | 1,4-Dichlorobenzene | µg/L | - | - | **57** | - | - | **47** | - | - |
| | 1,4-Dioxane | µg/L | - | - | **2.7J** | - | - | **31J** | - | - |
| | 2,4,5-Trichlorophenol | µg/L | - | - | <0.48U | - | - | <4.8U | - | - |
| | 2,4,6-Trichlorophenol | µg/L | - | - | <0.61U | - | - | <6.1U | - | - |
| | 2,4-Dichlorophenol | µg/L | - | - | <0.51U | - | - | <5.1U | - | - |
| | 2,4-Dimethylphenol | µg/L | - | - | **5.3** | - | - | <5U | - | - |
| | 2,4-Dinitrophenol | µg/L | - | - | <2.2UJ | - | - | <22U | - | - |
| | 2,4-Dinitrotoluene | µg/L | - | - | <0.45U | - | - | <4.5U | - | - |
| | 2,6-Dinitrotoluene | µg/L | - | - | <0.4U | - | - | <4U | - | - |
| | 2-Chloronaphthalene | µg/L | - | - | <0.46U | - | - | <4.6U | - | - |
| | 2-Chlorophenol | µg/L | - | - | **0.85J** | - | - | <5.3U | - | - |
| | 2-Methylnaphthalene | µg/L | - | - | **0.95J** | - | - | <6U | - | - |
| | 2-Methylphenol | µg/L | - | - | **17** | - | - | <4U | - | - |
| | 2-Nitroaniline | µg/L | - | - | <0.42U | - | - | <4.2U | - | - |
| | 2-Nitrophenol | µg/L | - | - | <0.48U | - | - | <4.8U | - | - |
| | 3,3-Dichlorobenzidine | µg/L | - | - | <0.4U | - | - | <4U | - | - |
| | 3-Nitroaniline | µg/L | - | - | <0.48U | - | - | <4.8UJ | - | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | - | <2.2U | - | - | <22U | - | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | - | <0.45U | - | - | <4.5U | - | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | - | **21** | - | - | <4.5U | - | - |
| | 4-Chloroaniline | µg/L | - | - | <0.59U | - | - | <5.9U | - | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | - | <0.35U | - | - | <3.5U | - | - |
| | 4-Methylphenol | µg/L | - | - | **51** | - | - | <3.6U | - | - |
| | 4-Nitroaniline | µg/L | - | - | <0.25U | - | - | <2.5U | - | - |
| | 4-Nitrophenol | µg/L | - | - | <1.5U | - | - | <15U | - | - |
| | Acenaphthene | µg/L | - | - | **0.78J** | - | - | <4.1U | - | - |
| | Acenaphthylene | µg/L | - | - | <0.38U | - | - | <3.8U | - | - |
| | Anthracene | µg/L | - | - | <0.28U | - | - | <2.8U | - | - |
| | Benz(a)anthracene | µg/L | - | - | <0.36U | - | - | <3.6U | - | - |
| | Benzo(a)pyrene | µg/L | - | - | <0.47U | - | - | <4.7U | - | - |
| | Benzo(b)fluoranthene | µg/L | - | - | <0.34U | - | - | <3.4U | - | - |
| | Benzo(g,h,i)perylene | µg/L | - | - | <0.35UJ | - | - | <3.5U | - | - |
| | Benzo(k)fluoranthene | µg/L | - | - | <0.73U | - | - | <7.3U | - | - |
| | Benzoic acid | µg/L | - | - | <100U | - | - | <1000U | - | - |
| | Benzyl alcohol | µg/L | - | - | <0.44U | - | - | <4.4U | - | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | - | <0.35U | - | - | <3.5U | - | - |
| | Bis(2-chloroethyl)ether | µg/L | - | - | <0.4U | - | - | <4U | - | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | - | <0.52U | - | - | <5.2UJ | - | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | - | <1.8U | - | - | <18U | - | - |
| | Butyl benzyl phthalate | µg/L | - | - | <0.42U | - | - | <4.2U | - | - |
| | Carbazole | µg/L | - | - | <0.3U | - | - | <3UJ | - | - |
| | Chrysene | µg/L | - | - | <0.33U | - | - | <3.3U | - | - |
| | Dibenz(a,h)anthracene | µg/L | - | - | <0.42U | - | - | <4.2U | - | - |

**EX-1**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 | EX-1 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 8/1/2023 | 10/30/2023 | 4/30/2024 | 7/29/2024 | 10/28/2024 | 4/20/2025 | 7/30/2025 | 10/22/2025 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Dibenzofuran | µg/L | - | - | <0.51U | - | - | <5.1U | - | - |
| | Diethyl phthalate | µg/L | - | - | <0.22U | - | - | <2.2U | - | - |
| | Dimethyl phthalate | µg/L | - | - | <0.36U | - | - | <3.6U | - | - |
| | Di-n-butyl phthalate | µg/L | - | - | **0.78J** | - | - | <3.1U | - | - |
| | Di-n-octyl phthalate | µg/L | - | - | <0.47U | - | - | <4.7U | - | - |
| | Fluoranthene | µg/L | - | - | <0.4U | - | - | <4U | - | - |
| | Fluorene | µg/L | - | - | <0.36U | - | - | <3.6U | - | - |
| | Hexachlorobenzene | µg/L | - | - | <0.51U | - | - | <5.1U | - | - |
| | Hexachlorobutadiene | µg/L | - | - | <0.68U | - | - | <6.8U | - | - |
| | Hexachlorocyclopentadiene | µg/L | - | - | <0.59UJ | - | - | <5.9U | - | - |
| | Hexachloroethane | µg/L | - | - | <0.59U | - | - | <5.9U | - | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | - | <0.47UJ | - | - | <4.7U | - | - |
| | Isophorone | µg/L | - | - | **2.6** | - | - | <4.3U | - | - |
| | Naphthalene | µg/L | - | - | **3.4** | - | - | <7.6U | - | - |
| | Nitrobenzene | µg/L | - | - | <0.29U | - | - | <2.9U | - | - |
| | N-nitrosodi-n-propylamine | µg/L | - | - | <0.54U | - | - | <5.4U | - | - |
| | N-Nitrosodiphenylamine | µg/L | - | - | <0.51U | - | - | <5.1U | - | - |
| | Pentachlorophenol | µg/L | - | - | <2.2U | - | - | <22U | - | - |
| | Phenanthrene | µg/L | - | - | <0.44U | - | - | <4.4U | - | - |
| | Phenol | µg/L | - | - | **7.1** | - | - | <3.9U | - | - |
| | Pyrene | µg/L | - | - | <0.34U | - | - | <3.4U | - | - |
| | Total SVOCS | µg/L | - | - | **220** | - | - | **130** | - | - |
| Volatile Organic Compounds | 1,1,1-Trichloroethane | µg/L | **1.8J** | <1.6U | <8.2U | <8.2U | <8.2U | <1.6U | <8.2U | <3.3U |
| | 1,1,2,2-Tetrachloroethane | µg/L | **0.49J** | **0.5J** | <2.1U | <2.1U | <2.1U | <0.42U | <2.1U | <0.84U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.46U | <2.3U | <2.3U | <2.3U | <0.46U | <2.3U | <0.92U |
| | 1,1-Dichloroethane | µg/L | **11** | **12** | **110** | **19J** | **19J** | **9J** | **26J** | **13J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.58U | <2.9UJ | <2.9U | <2.9U | <0.58U | <2.9U | <1.2U |
| | 1,2-Dichlorobenzene | µg/L | **20** | **20** | **24J** | **47J** | **54** | **22** | **59** | **31** |
| | 1,2-Dichloroethane | µg/L | **0.41J** | <0.42U | <2.1U | <2.1U | <2.1U | <0.42U | <2.1U | <0.84U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <1.4U | <7.2U | <7.2U | <7.2U | <1.4U | <7.2U | <2.9U |
| | 1,3-Dichlorobenzene | µg/L | **21** | **25** | **40J** | **37J** | **39J** | **26** | **37J** | **25** |
| | 1,4-Dichlorobenzene | µg/L | **87** | **73** | **87** | **170** | **190** | **72** | **230** | **110** |
| | 2-Butanone | µg/L | <1.3U | <2.6U | <13U | <13U | <13U | <2.6U | <13U | <5.3U |
| | 2-Hexanone | µg/L | <1.2U | <2.5U | <12U | <12U | <12U | <2.5U | <12U | <5U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <4.2U | **32J** | <21U | <21U | <4.2U | <21U | <8.4U |
| | Acetone | µg/L | **3.1J** | <6U | **90J** | <30U | <30U | <6U | <30U | <12U |
| | Benzene | µg/L | **7.3** | **6.3J** | **9.6J** | **14J** | **13J** | <0.82U | **18J** | **9.9J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.78U | <3.9U | <3.9U | <3.9U | <0.78U | <3.9U | <1.6U |
| | Bromoform | µg/L | <0.26U | <0.52U | <2.6U | <2.6U | <2.6U | <0.52U | <2.6U | <1U |
| | Bromomethane | µg/L | <0.69U | <1.4U | <6.9U | <6.9U | <6.9U | <1.4U | <6.9U | <2.8U |
| | Carbon Disulfide | µg/L | <0.19U | <0.38U | <1.9U | <1.9U | <1.9U | <0.38U | <1.9U | <0.76U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.54U | <2.7U | <2.7U | <2.7UJ | <0.54U | <2.7U | <1.1U |
| | Chlorobenzene | µg/L | **78** | **110** | **180** | **200** | **220** | **110** | **180** | **180** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.64U | <3.2U | <3.2U | <3.2U | <0.64U | <3.2U | <1.3U |
| | Chloroethane | µg/L | <0.32U | <0.64U | **11J** | <3.2U | <3.2U | <0.64U | <3.2U | <1.3U |
| | Chloroform | µg/L | <0.34U | <0.68U | <7.1U | <3.4U | <3.4U | **0.68J** | <3.4U | <1.4U |
| | Chloromethane | µg/L | <0.35U | <0.7U | <3.5U | <3.5U | <3.5U | <0.7U | <3.5UJ | <1.4UJ |
| | cis-1,2-Dichloroethene | µg/L | **20** | **43** | **76** | **180** | **190** | <1.6U | **210** | **33** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.72U | <3.6U | <3.6U | <3.6U | <0.72U | <3.6U | <1.4U |
| | Methylene Chloride | µg/L | <0.44U | <0.88U | <4.4U | <4.4U | <4.4U | <0.88U | <4.4U | <1.8U |
| | Ethylbenzene | µg/L | **10** | **9.6J** | **33J** | **21J** | **17J** | **9.5J** | **34J** | **11J** |
| | Styrene | µg/L | <0.73U | <1.5U | <7.3U | <7.3U | <7.3U | <1.5U | <7.3U | <2.9U |
| | Trichloroethene | µg/L | **0.77J** | <0.92U | <4.6U | <4.6U | <4.6U | <0.92U | <4.6U | <1.8U |
| | Tetrachloroethene | µg/L | <0.36U | <0.72U | <3.6U | <3.6U | <3.6U | <0.72U | <3.6U | <1.4U |
| | Toluene | µg/L | **1.8J** | **6J** | **330** | **9.4J** | <5.1U | **4.8J** | <5.1U | <2U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <1.8U | <9UJ | <9U | <9U | <1.8U | <9U | <3.6U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.74U | <3.7U | <3.7U | <3.7U | <0.74U | <3.7U | <1.5U |
| | Vinyl Chloride | µg/L | **16** | **22** | **45J** | **120** | **92** | <1.8U | **110J** | **25** |
| | Total Xylenes | µg/L | **2.2J** | **3.7J** | **77** | **7.4J** | <6.6U | **1.7J** | **10J** | **<2.6U** |
| | Total VOCS | µg/L | **290** | **340** | **1200** | **830** | **840** | **260** | **920** | **440** |

**MW-1A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1A | MW-1A | MW-1A | MW-1A | MW-1A |
|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/22/2015 | 5/16/2016 | 4/25/2017 | 5/8/2018 | 4/23/2019 |
| | Parameters | Units | | | | | |
| General Chemistry | Alkalinity | mg/L | **99.9** | **346** | **105** | **93.2** | **94.6** |
| | Ammonia | mg/L | <0.009U | <0.009U | <0.009U | <0.009U | **0.013J** |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.02U | <0.02U | <0.02U | <0.02U |
| | Sulfate | mg/L | **18.8** | **18.5** | **19.1** | **20** | **15.7** |
| | Total Organic Carbon | mg/L | <0.43U | <1U | <0.43U | <0.47U | **0.55J** |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **2900J** | **830** | **1300** | **2100** | **530** |
| | Manganese | µg/L | **2000** | **1600** | **1700** | **1600** | **1,800** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <0.42U | <0.42U | <0.44U | <0.44U | <0.44U |
| | 1,2-Dichlorobenzene | µg/L | <0.38U | <0.38U | <0.4U | <0.4U | <0.4U |
| | 1,3-Dichlorobenzene | µg/L | <0.46U | <0.46U | <0.48U | <0.48U | <0.48U |
| | 1,4-Dichlorobenzene | µg/L | <0.44U | <0.44U | <0.46U | <0.46U | <0.46U |
| | 1,4-Dioxane | µg/L | <1U | <1.1U | <1.1U | <1.1U | <1.1U |
| | 2,4,5-Trichlorophenol | µg/L | <0.46U | <0.46U | <0.48U | <0.48U | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | <0.58U | <0.58U | <0.61U | <0.61U | <0.61U |
| | 2,4-Dichlorophenol | µg/L | <0.48U | <0.49U | <0.51U | <0.51U | <0.51U |
| | 2,4-Dimethylphenol | µg/L | <0.47U | <0.48U | <0.5U | <0.5U | <0.5U |
| | 2,4-Dinitrophenol | µg/L | <2.1U | <2.1U | <2.2U | <2.2U | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | <0.42U | <0.43U | <0.45U | <0.45U | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | <0.38U | <0.38U | <0.4U | <0.4U | <0.4U |
| | 2-Chloronaphthalene | µg/L | <0.44U | <0.44U | <0.46U | <0.46U | <0.46U |
| | 2-Chlorophenol | µg/L | <0.5U | <0.51U | <0.53U | <0.53U | <0.53U |
| | 2-Methylnaphthalene | µg/L | <0.57U | <0.57U | <0.6U | <0.6U | <0.6U |
| | 2-Methylphenol | µg/L | <0.38U | <0.38U | <0.4U | <0.4U | <0.4U |
| | 2-Nitroaniline | µg/L | <0.4U | <0.4U | <0.42U | <0.42U | <0.42U |
| | 2-Nitrophenol | µg/L | <0.46U | <0.46U | <0.48U | <0.48U | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | <0.38UJ | <0.38U | <0.4U | <0.4U | <0.4U |
| | 3-Nitroaniline | µg/L | <0.46U | <0.46U | <0.48U | <0.48U | <0.48U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.1U | <2.1U | <2.2U | <2.2U | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <0.43U | <0.43U | <0.45U | <0.45U | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | <0.43U | <0.43U | <0.45U | <0.45U | <0.45U |
| | 4-Chloroaniline | µg/L | <0.56U | <0.56U | <0.59U | <0.59U | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.33U | <0.34U | <0.35U | <0.35U | <0.35U |
| | 4-Methylphenol | µg/L | <0.34U | <0.34U | <0.36U | <0.36U | <0.36U |
| | 4-Nitroaniline | µg/L | <0.24U | <0.24U | <0.25U | <0.25U | <0.25U |
| | 4-Nitrophenol | µg/L | <1.4U | <1.5U | <1.5U | <1.5U | <1.5U |
| | Acenaphthene | µg/L | <0.39U | <0.39U | <0.41U | <0.41U | <0.41U |
| | Acenaphthylene | µg/L | <0.36U | <0.36U | <0.38U | <0.38U | <0.38U |
| | Anthracene | µg/L | <0.27U | <0.27U | <0.28U | <0.28U | <0.28U |
| | Benz(a)anthracene | µg/L | <0.34U | <0.34U | <0.36U | <0.36U | <0.36U |
| | Benzo(a)pyrene | µg/L | <0.45U | <0.45U | <0.47U | <0.47U | <0.47U |
| | Benzo(b)fluoranthene | µg/L | <0.32U | <0.33U | <0.34U | <0.34U | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | <0.33U | <0.34U | <0.35U | <0.35U | <0.35U |
| | Benzo(k)fluoranthene | µg/L | <0.69U | <0.7U | <0.73U | <0.73U | <0.73U |
| | Benzoic acid | µg/L | <95U | - | <100U | <100U | <100U |
| | Benzyl alcohol | µg/L | <6.6U | <6.7U | <0.44U | <0.44U | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | <0.33U | <0.34U | <0.35U | <0.35U | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | <0.38U | <0.38U | <0.4U | <0.4U | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.49U | <0.5U | <0.52U | <0.52U | <0.52U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.7U | <1.7U | <1.8U | <1.8U | <1.8U |
| | Butyl benzyl phthalate | µg/L | <9.5U | <0.4U | <0.42U | <0.42U | <0.45U |
| | Carbazole | µg/L | <0.28U | <0.29U | <0.3U | <0.3U | <0.3U |
| | Chrysene | µg/L | <0.31U | <0.32U | <0.33U | <0.33U | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | <0.4U | <0.4U | <0.42U | <0.42U | <0.42U |
| | Dibenzofuran | µg/L | <0.48U | <0.49U | <0.51U | <0.51U | <0.51U |
| | Diethyl phthalate | µg/L | <0.21U | <0.21U | <0.22U | <0.22U | <0.22U |
| | Dimethyl phthalate | µg/L | <0.34U | <0.34U | <0.36U | <0.36U | <0.36U |
| | Di-n-butyl phthalate | µg/L | **0.48J** | <0.3U | <0.31U | <0.31U | <0.31U |
| | Di-n-octyl phthalate | µg/L | <0.45U | <0.45U | <0.47U | <0.47U | <0.47U |
| | Fluoranthene | µg/L | <0.38U | <0.38U | <0.4U | <0.4U | <0.4U |
| | Fluorene | µg/L | <0.34U | <0.34U | <0.36U | <0.36U | <0.36U |

**MW-1A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1A | MW-1A | MW-1A | MW-1A | MW-1A |
|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/22/2015 | 5/16/2016 | 4/25/2017 | 5/8/2018 | 4/23/2019 |
| | Parameters | Units | | | | | |
| Semivolatile Organics | Hexachlorobenzene | µg/L | <0.48U | <0.49U | <0.51U | <0.51U | <0.51U |
| | Hexachlorobutadiene | µg/L | <0.65U | <0.65U | <0.68U | <0.68U | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | <0.56U | <0.56U | <0.59U | <0.59U | <0.59U |
| | Hexachloroethane | µg/L | <0.56U | <0.56U | <0.59U | <0.59U | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.45U | <0.45U | <0.47U | <0.47U | <0.47U |
| | Isophorone | µg/L | <0.41U | <0.41U | <0.43U | <0.43U | <0.43U |
| | Naphthalene | µg/L | <0.72U | <0.73U | <0.76U | <0.76U | <0.76U |
| | Nitrobenzene | µg/L | <0.28U | <0.28U | <0.29U | <0.29U | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | <0.51U | <0.52U | <0.54U | <0.54U | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | <0.48U | <0.49U | <0.51U | <0.51U | <0.51U |
| | Pentachlorophenol | µg/L | <2.1U | <2.1U | <2.2U | <2.2U | <2.2U |
| | Phenanthrene | µg/L | <0.42U | <0.42U | <0.44U | <0.44U | <0.44U |
| | Phenol | µg/L | <0.37U | **0.44J** | <0.39U | <0.39U | <0.39U |
| | Pyrene | µg/L | <0.32U | <0.33U | <0.34U | <0.34U | <0.34U |
| | Total SVOCS | µg/L | **0.48** | **0.44** | ND | ND | ND |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.38U | <0.38U | <0.4U | <0.4U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.46U | <0.46U | <0.48U | <0.48U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <0.44U | <0.44U | <0.46U | <0.46U | <0.84U |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2UJ | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1UJ | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | **3.5J** | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26UJ | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | ND | ND | ND | **3.5** | ND |

**MW-1A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1A | MW-1A | MW-1A | MW-1A | MW-1A | MW-1A |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2020 | 4/27/2021 | 4/20/2022 | 4/25/2023 | 5/1/2024 | 4/22/2025 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **89.6** | **89.4** | **84.1** | **106** | **79.8J-** | **75.5** |
| | Ammonia | mg/L | **0.064** | <0.009U | <0.009U | <0.009U | **0.0091J** | **0.068J** |
| | Nitrate+Nitrite | mg/L | **0.029J** | <0.02U | <0.02U | **1.9** | <0.02U | **0.56J** |
| | Sulfate | mg/L | **22.5** | **18.2** | **17.3J-** | **15.2** | **10.8** | <0.02U |
| | Total Organic Carbon | mg/L | <0.43U | <0.43U | <0.43U | **0.78J** | <0.43U | **14.8** |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | 5.8J |
| | Iron | µg/L | **3,800** | **1,000** | **1,500** | **1,100** | **330** | **610J+** |
| | Manganese | µg/L | **1,600** | **1,700** | **1,700** | **1,700** | **1,600** | **1,600** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | 1,2-Dichlorobenzene | µg/L | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 1,3-Dichlorobenzene | µg/L | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| | 1,4-Dichlorobenzene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | 1,4-Dioxane | µg/L | <1.1U | <1.1U | <1.1U | <1.1U | <1.1U | <1.1U |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | <0.61U | <0.61U | <0.61U | <0.61U | <0.61U |
| | 2,4-Dichlorophenol | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | 2,4-Dimethylphenol | µg/L | <0.5U | <0.5U | <0.5U | <0.5U | <0.5U | <0.5U |
| | 2,4-Dinitrophenol | µg/L | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 2-Chloronaphthalene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | 2-Chlorophenol | µg/L | <0.53U | <0.53U | <0.53U | <0.53U | <0.53U | <0.53U |
| | 2-Methylnaphthalene | µg/L | <0.6U | <0.6U | <0.6U | <0.6U | <0.6U | <0.6U |
| | 2-Methylphenol | µg/L | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 2-Nitroaniline | µg/L | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U |
| | 2-Nitrophenol | µg/L | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 3-Nitroaniline | µg/L | <0.48U | <0.48UJ | <0.48U | <0.48U | <0.48U | <0.48UJ |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| | 4-Chloroaniline | µg/L | <0.59U | <0.59UJ | <0.59U | <0.59U | <0.59U | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | 4-Methylphenol | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | 4-Nitroaniline | µg/L | <0.25U | <0.25U | <0.25U | <0.25U | <0.25U | <0.25U |
| | 4-Nitrophenol | µg/L | <1.5U | <1.5U | <1.5U | <1.5U | <1.5U | <1.5U |
| | Acenaphthene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Acenaphthylene | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | Anthracene | µg/L | <0.28U | <0.28U | <0.28U | <0.28U | <0.28U | <0.28U |
| | Benz(a)anthracene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Benzo(a)pyrene | µg/L | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U |
| | Benzo(b)fluoranthene | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | Benzo(k)fluoranthene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Benzoic acid | µg/L | <100U | <100U | <100U | <100U | <100U | <100U |
| | Benzyl alcohol | µg/L | <0.44U | <0.44U | <0.44U | **0.57J** | <0.44U | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | <0.40U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | <0.52U | <0.52U | <0.52U | <0.52U | <0.52UJ |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | <1.8U | <1.8U | <1.8U | <1.8U | <1.8U |
| | Butyl benzyl phthalate | µg/L | <0.42U | <10U | <0.42U | <0.42U | <0.42U | <0.42U |
| | Carbazole | µg/L | <0.3U | <0.3U | <0.3U | <0.3U | <0.3U | <0.3UJ |
| | Chrysene | µg/L | <0.33U | <0.33U | <0.33U | <0.33U | <0.33U | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U |
| | Dibenzofuran | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | Diethyl phthalate | µg/L | <0.22U | <0.22U | <0.22U | <0.22U | <0.22U | <0.22U |
| | Dimethyl phthalate | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Di-n-butyl phthalate | µg/L | <0.31U | <0.31U | <10U | **1.2J** | <0.31U | <0.31U |
| | Di-n-octyl phthalate | µg/L | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U |
| | Fluoranthene | µg/L | <0.40U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | Fluorene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |

**MW-1A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1A | MW-1A | MW-1A | MW-1A | MW-1A | MW-1A |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2020 | 4/27/2021 | 4/20/2022 | 4/25/2023 | 5/1/2024 | 4/22/2025 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Hexachlorobenzene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | Hexachlorobutadiene | µg/L | <0.68U | <0.68U | <0.68U | <0.68U | <0.68U | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U |
| | Hexachloroethane | µg/L | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U |
| | Isophorone | µg/L | <0.43U | <0.43U | <0.43U | <0.43U | <0.43U | <0.43U |
| | Naphthalene | µg/L | <0.76U | <0.76U | <0.76U | <0.76U | <0.76U | <0.76U |
| | Nitrobenzene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | <0.54U | <0.54U | <0.54U | <0.54U | <0.54UJ |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | Pentachlorophenol | µg/L | <2.2U | <2.2UJ | <2.2UJ | <2.2U | <2.2U | <2.2U |
| | Phenanthrene | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Phenol | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Pyrene | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Total SVOCS | µg/L | ND | ND | ND | **1.8** | ND | ND |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | <0.79U | <0.79U | <0.4U | <0.79U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.84U | <0.78U | <0.78U | <0.48U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <0.78U | <0.84U | <0.84U | <0.46U | <0.84U | <0.84U |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3.0U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32UJ | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.90U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | ND | ND | ND | ND | ND | ND |

**MW-1B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 7/24/2008 | 10/22/2008 | 4/27/2009 | 7/17/2009 | 10/29/2009 | 5/6/2010 | 7/22/2010 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | 100 | 232 | 97.2 | 191 | 176 | 112 | 117 | 158 |
| | Ammonia | mg/L | 9.5 | 8.8 | 6.8 | 10.5 | 9.57 | 7.33 | 8.82 | 9.74 |
| | Nitrate+Nitrite | mg/L | <0.1UJ | <0.1U | <0.1U | 0.02J | <0.02U | <0.02U | <0.1U | <0.1UJ |
| | Sulfate | mg/L | <5U | <5U | <5U | <3.2U | 11.5 | 3.7J | 8.5 | <5U |
| | Total Organic Carbon | mg/L | 5 | 12.1 | 2 | 3.7 | 12.3 | 5.1 | 4.6 | 5.7 |
| Metals | Arsenic | µg/L | 50.8 | 38.3 | 28.3 | 47.4 | 42.2 | 37.9 | 41.4 | 36.9 |
| | Iron | µg/L | 44,400 | 48,300 | 32,300J | 45,200 | 47,200 | 43,000 | 38,400 | 46,100 |
| | Manganese | µg/L | 9,510J | 10,600J | 7,420J | 9,720 | 10,200 | 9,790 | 8,220 | 9,670 |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <2U | 28J | 10 | 8.8 | 20 | 19 | 8.7 | 30 |
| | 1,2-Dichlorobenzene | µg/L | <2U | 22 | 8 | 5.8 | 12 | 15 | 4.6 | 18 |
| | 1,3-Dichlorobenzene | µg/L | 1J | 7 | 4 | 2.6 | 4.4 | 6.3 | 2.4 | 6.3 |
| | 1,4-Dichlorobenzene | µg/L | 7 | 76J | 36 | 24 | 44 | 59 | 19 | 56 |
| | 1,4-Dioxane | µg/L | 18 | 53 | 25 | 5J | 10 | 22 | 5.5J | 29 |
| | 2,4,5-Trichlorophenol | µg/L | <10U | <10U | <10U | <2.6U | <0.94U | <0.46U | <9.6U | <9.5U |
| | 2,4,6-Trichlorophenol | µg/L | <3U | <3U | <3U | <2.9U | <0.95U | <0.58U | <3U | <3U |
| | 2,4-Dichlorophenol | µg/L | <2U | <2U | <2U | <0.8U | <0.75U | <0.49U | <2.7U | <2.7U |
| | 2,4-Dimethylphenol | µg/L | <2U | 10 | 2J | 2.6J | 8.1 | 5.7 | 1.8J | 7.8 |
| | 2,4-Dinitrophenol | µg/L | <43U | <43U | <43U | <2U | <2.1U | <2.1U | <41U | <41U |
| | 2,4-Dinitrotoluene | µg/L | <5U | <5U | <5U | <1.2U | <0.43U | <0.43U | <5.6U | <5.5U |
| | 2,6-Dinitrotoluene | µg/L | <1U | <1U | <1U | <1.7U | <0.49U | <0.38U | <1.8U | <1.8U |
| | 2-Chloronaphthalene | µg/L | <1U | <1U | <1U | <1.4U | <0.08U | <0.44U | <1.8U | <1.8U |
| | 2-Chlorophenol | µg/L | <3U | <3U | <3U | <1U | <0.48U | <0.5U | <3.2U | <3.1U |
| | 2-Methylnaphthalene | µg/L | 4J | 15 | <8U | 7.6J | 12 | 13 | 11 | 17 |
| | 2-Methylphenol | µg/L | <10U | 11 | 1J | 2.7J | 5.3J | 5.9J | 1.6J | 9.7 |
| | 2-Nitroaniline | µg/L | <10U | <10U | <10U | <1.4U | <0.47U | <0.4U | <9.6U | 4.9J |
| | 2-Nitrophenol | µg/L | <3U | <3U | <3U | <1.4U | <0.57U | <0.46U | <3.5U | <3.4U |
| | 3,3-Dichlorobenzidine | µg/L | <17U | <17U | <17U | <1.5U | <0.36U | <0.38U | <16U | <16U |
| | 3-Nitroaniline | µg/L | <10U | <10U | <10U | <1.8U | <1.5U | <0.46U | <9.6U | <9.5U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <24U | <24U | <24U | <1.8U | <2.2U | <2.1U | <23U | <23U |
| | 4-Bromophenyl phenyl ether | µg/L | <1U | <1U | <1U | <1.7U | <0.86U | <0.43U | <1.7U | <1.7U |
| | 4-Chloro-3-Methylphenol | µg/L | <3U | 4 | 0.6J | 2.5J | <0.57U | 1.8J | <2.9U | 2.4J |
| | 4-Chloroaniline | µg/L | <2U | 1J | <2U | <0.94U | <0.31U | 0.79J | <1.9U | 0.95J |
| | 4-Chlorophenyl phenyl ether | µg/L | <4U | <4U | <4U | <1.3U | <0.16U | <0.33U | <4.1U | <4.1U |
| | 4-Methylphenol | µg/L | <10U | 24 | 2J | 4.3J | 11 | 12 | 2.7J | 28 |
| | 4-Nitroaniline | µg/L | <10U | <10U | <10U | <2.7U | <0.43U | <0.24U | <9.6U | <9.5U |
| | 4-Nitrophenol | µg/L | <3U | 1J | <3U | <2.8U | <1.4U | <1.4U | <2.9U | <2.9U |
| | Acenaphthene | µg/L | 0.4J | 0.6J | 0.5J | <1.3U | <0.11U | 0.54J | 0.52J | 0.76J |
| | Acenaphthylene | µg/L | <3U | <3U | <3U | <1.1U | <0.045U | <0.36U | <3.4U | <3.3U |
| | Anthracene | µg/L | <1U | <1U | <1U | <1.4U | <0.053U | <0.27U | <1.7U | <1.7U |
| | Benz(a)anthracene | µg/L | <7U | <7U | <7U | <1.5U | <0.061U | <0.34U | <7.5U | <7.4U |
| | Benzo(a)pyrene | µg/L | <2U | 0.2J | <2U | <1.5U | <0.087U | <0.45U | <2.5U | <2.5U |
| | Benzo(b)fluoranthene | µg/L | <10U | <10U | <10U | <2.8U | <0.06U | <0.32U | <9.6U | <9.5U |
| | Benzo(g,h,i)perylene | µg/L | <4U | <4U | <4U | <2.8U | <0.074U | <0.33U | <3.9U | <3.9U |
| | Benzo(k)fluoranthene | µg/L | <2U | <0.4U | <2U | <1.3U | <0.063U | <0.7U | <2.4U | <2.4U |
| | Benzoic acid | µg/L | <96U | <95U | <110U | <47U | <95U | <95U | <96U | <95U |
| | Benzyl alcohol | µg/L | <7U | 2J | <7U | <4.7U | <0.28U | <0.42U | <6.7U | 2.4J |
| | Bis(2-chloroethoxy) methane | µg/L | <5U | <5U | <5U | <1.1U | <0.36U | <0.33U | <5.1U | <5U |
| | Bis(2-chloroethyl)ether | µg/L | <5U | 21 | <5U | <1.6U | <0.17U | <0.38U | <5.5U | <5.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | <5U | <5U | <5U | <0.94U | <3.8U | <0.5U | <5.5U | <5.4U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <10U | <10U | <10U | <2.1U | <4.5U | <1.7U | <9.6U | <9.5U |
| | Butyl benzyl phthalate | µg/L | <10U | <10U | <10U | <1.5U | <1.7U | <0.4U | <9.6U | <9.5U |
| | Carbazole | µg/L | 0.3J | 0.7J | 0.5J | 0.4J | <0.085U | 0.66J | 0.59J | 0.92J |
| | Chrysene | µg/L | <2U | <0.7U | <2U | <1.6U | <0.26U | <0.31U | <2.4U | <2.4U |

**MW-1B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 7/24/2008 | 10/22/2008 | 4/27/2009 | 7/17/2009 | 10/29/2009 | 5/6/2010 | 7/22/2010 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Dibenz(a,h)anthracene | µg/L | <10U | <10U | <10U | <1.7U | <0.19U | <0.4U | <9.6U | <9.5U |
| | Dibenzofuran | µg/L | <10U | **0.3J** | **0.4J** | <1.5U | <1.5U | <0.49U | <9.6U | <9.5U |
| | Diethyl phthalate | µg/L | **0.4J** | **3J** | **1J** | <1.6U | <1.8U | <9.5U | <9.6U | **2.2J** |
| | Dimethyl phthalate | µg/L | <10U | <10U | <10U | <1.1U | <0.29U | <0.34U | <9.6U | <9.5U |
| | Di-n-butyl phthalate | µg/L | <10U | <2U | **1J** | <1.4U | <0.28U | **1.9J** | **0.9J** | <3.3U |
| | Di-n-octyl phthalate | µg/L | <10U | <10U | <3U | <1.7U | <0.23U | <0.45U | <9.6U | <9.5U |
| | Fluoranthene | µg/L | <2U | <2U | <2U | <1.9U | <0.093U | <0.38U | <2.1U | <2.1U |
| | Fluorene | µg/L | **0.2J** | **0.3J** | <1U | <1.7U | <0.07U | <0.34U | <1.8U | <1.8U |
| | Hexachlorobenzene | µg/L | <1U | <1U | <1U | <2.1U | <0.42U | <0.49U | <2.1U | <2.1U |
| | Hexachlorobutadiene | µg/L | <2U | <2U | <3U | <1.1U | <2.5U | <0.65U | <2.5U | <2.5U |
| | Hexachlorocyclopentadiene | µg/L | <10U | <10U | <10U | <1.8U | <2.4U | <0.56U | <9.6U | <9.5U |
| | Hexachloroethane | µg/L | <3U | <3U | <5U | <0.8U | <2.7U | <0.56U | <2.7U | <2.7U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4U | <4U | <4U | <3U | <0.15U | <0.45U | <4.6U | <4.6U |
| | Isophorone | µg/L | <2U | **2J** | <2U | <1.1U | **2J** | **1.5J** | <2.1U | **2.7** |
| | Naphthalene | µg/L | **9** | **39** | **22** | **20** | **30** | **34** | **23** | **41** |
| | Nitrobenzene | µg/L | <2U | <2U | <2U | <1.9U | <0.51U | <0.28U | <1.9U | <1.9U |
| | N-nitrosodi-n-propylamine | µg/L | <10U | <10U | <10U | <0.94U | <0.43U | <0.51U | <4.8U | <4.8U |
| | N-Nitrosodiphenylamine | µg/L | **0.4J** | **0.7J** | **0.4J** | <1.2U | <0.25U | <0.49U | <1.8U | **0.67J** |
| | Pentachlorophenol | µg/L | <5U | <5U | <6U | <3.5U | <4.9U | <2.1U | <4.9U | <4.9U |
| | Phenanthrene | µg/L | <5U | <5U | <5U | <1.3U | <0.11U | <0.42U | <4.8U | <4.8U |
| | Phenol | µg/L | <2U | **4** | <2U | <2.4U | <0.42U | <0.37U | <2.4U | **4.2** |
| | Pyrene | µg/L | <1U | <1U | <1U | <1.8U | <0.065U | <0.32U | <1.8U | <1.8U |
| | Total SVOCS | µg/L | **41** | **330** | **120** | **87** | **160** | **200** | **83** | **270** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | **4.6J** | **44** | **5.7** | **30** | **53** | **21J** | <20U | **45J** |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | **0.76J** | <5U | **0.27J** | **0.71J** | <8.5U | <20U | <200U |
| | 1,1,2-Trichloroethane | µg/L | <5U | **0.82J** | <5U | <0.23U | **0.52J** | <9.2U | <20U | <200U |
| | 1,1-Dichloroethane | µg/L | **5.4** | **380** | **52** | **83** | **160** | **110J** | **19J** | **240** |
| | 1,1-Dichloroethene | µg/L | <5U | **1.1J** | <5U | **0.41J** | **0.55J** | <12U | <20U | <200U |
| | 1,2-Dichlorobenzene | µg/L | **2.6J** | **31** | **13** | **9.4** | **23** | **19J** | **6J** | **38J** |
| | 1,2-Dichloroethane | µg/L | <5U | <5U | <5U | **0.53J** | **1J** | <8.6U | <20U | <200U |
| | 1,2-Dichloropropane | µg/L | <5U | **1.5J** | <5U | **0.75J** | **1.3J** | <13U | <20U | <200U |
| | 1,3-Dichlorobenzene | µg/L | **2J** | **11** | **6.1** | **4.1J** | **8** | <14U | **3.5J** | <200U |
| | 1,4-Dichlorobenzene | µg/L | **14** | **130J** | **58** | **38** | **86** | **88J** | **26** | **120J** |
| | 2-Butanone | µg/L | <5U | **82** | <5U | **6.3** | **30** | <53U | <20U | <200U |
| | 2-Hexanone | µg/L | <5U | **1.9J** | <5U | <1.2U | <1.2U | <50U | <20U | <200U |
| | 4-Methyl-2-pentanone | µg/L | <5U | **77** | <5U | **4.2J** | **19** | <36U | <20U | <200U |
| | Acetone | µg/L | <10U | **54** | **3.2J** | **10** | **24** | <54U | <40U | <400U |
| | Benzene | µg/L | **3.1J** | **32** | **8.8** | **8.4** | **18** | **18J** | **4.6J** | **30J** |
| | Dichlorobromomethane | µg/L | <5U | **1.5J** | <5U | <0.39U | <0.39U | <15U | <20U | <200U |
| | Bromoform | µg/L | <5U | <5U | <5U | <0.26U | <0.26U | <10U | <20U | <200U |
| | Bromomethane | µg/L | <5U | <5U | <5U | <0.28U | <0.28U | <11U | <20U | <200U |
| | Carbon Disulfide | µg/L | <5U | <5U | <5U | **0.26J** | <0.19U | <7.8U | <20U | <200U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <5U | <0.27U | <0.27U | <11U | <20U | <200U |
| | Chlorobenzene | µg/L | **12** | **92** | **32** | **21** | **62** | **64J** | **15J** | **110J** |
| | Chlorodibromomethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <13U | <20U | <200U |
| | Chloroethane | µg/L | <5U | <5U | **1.8J** | <0.32U | **23** | <13U | <20U | <200U |
| | Chloroform | µg/L | **0.8J** | **1.5J** | <5U | **1.8J** | **1.6J** | <13U | <20U | <200U |
| | Chloromethane | µg/L | <5U | **1.6J** | **0.83J** | <0.35U | <0.35U | <14U | <20U | <200U |
| | cis-1,2-Dichloroethene | µg/L | <2U | **690** | **25** | **19** | **300** | **290** | <4U | **1400J** |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <14U | <20U | <200U |
| | Methylene Chloride | µg/L | <5U | <5U | <5U | <0.44U | <0.44U | **46J** | <20U | <200U |
| | Ethylbenzene | µg/L | **7.4** | **160J** | **36** | **47** | **130** | **90J** | **23** | **190J** |
| | Styrene | µg/L | <5U | <5U | <5U | <0.18U | <0.18U | <7.4U | <20U | <200U |
| | Trichloroethene | µg/L | **2.8J** | <5U | <5U | **0.74J** | **0.53J** | <18U | <20U | <200U |
| | Tetrachloroethene | µg/L | <5U | <5U | <5U | **0.58J** | **0.55J** | <15U | <20U | <200U |
| | Toluene | µg/L | **32J** | **3100J** | **60** | **1000J** | **1200** | **2000** | **270** | **4200** |
| | trans-1,2-Dichloroethene | µg/L | <1U | **1.9** | <1U | **0.27J** | **0.75J** | <17U | <4U | <40U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.37U | <0.37U | <15U | <20U | <200U |
| | Vinyl Chloride | µg/L | **2.2J** | **310** | **28** | **35** | **240** | **240** | **3.6J** | **580** |
| | Total Xylenes | µg/L | **8.2** | **620** | **71** | **150** | **460** | **330** | **82** | **670** |
| | Total VOCS | µg/L | **98** | **5900** | **410** | **1500** | **2900** | **3400** | **460** | **7700** |

**MW-1B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/28/2010 | 4/17/2013 | 10/21/2013 | 4/21/2014 | 10/22/2014 | 4/22/2015 | 7/27/2015 | 10/19/2015 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **47.7J** | **133** | **116J** | - | **133** | **65.9** | **43.5** | **42.4J** |
| | Ammonia | mg/L | **5.95** | **8.7** | **7.5J** | - | **6.7J** | **5** | **5.7** | **6.1** |
| | Nitrate+Nitrite | mg/L | <0.1U | **0.082** | <0.02UJ | - | **0.039J** | <0.02U | **1.9** | <0.02U |
| | Sulfate | mg/L | <5UJ | <1.5U | <6.3U | - | <1.5U | **24.9** | **87.3** | **45.2** |
| | Total Organic Carbon | mg/L | **5.9** | **7.4** | **4.8J** | - | **9.9J** | **2.7** | **4.8** | **3.1J** |
| Metals | Arsenic | µg/L | **41.2** | **48** | **33** | - | **28** | **34** | **38** | **30** |
| | Iron | µg/L | **36,300** | **38,300** | **33,900** | - | **35,300** | **19,900J** | **40,700** | **27,400** |
| | Manganese | µg/L | **7,480J** | **8,100** | **7,300** | - | **7,900** | **4,800** | **9,700J** | **7,200** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **13** | **29** | - | **5.1J** | - | **7.3J** | - | - |
| | 1,2-Dichlorobenzene | µg/L | **7.3** | **20** | - | **11J** | - | **5.5J** | - | - |
| | 1,3-Dichlorobenzene | µg/L | **2.7** | **8.1J** | - | **11J** | - | **7.4J** | - | - |
| | 1,4-Dichlorobenzene | µg/L | **27** | **84** | - | **59** | - | **25J** | - | - |
| | 1,4-Dioxane | µg/L | **9.3J** | <10U | - | **15J** | - | **10J** | - | - |
| | 2,4,5-Trichlorophenol | µg/L | <9.4U | <4.6U | - | <4.5U | - | <4.4U | - | - |
| | 2,4,6-Trichlorophenol | µg/L | <2.9U | <5.8U | - | <5.7U | - | <5.6U | - | - |
| | 2,4-Dichlorophenol | µg/L | <2.6U | <4.8U | - | <4.8U | - | <4.7U | - | - |
| | 2,4-Dimethylphenol | µg/L | **2.1J** | **8.2J** | - | <4.7U | - | <4.6U | - | - |
| | 2,4-Dinitrophenol | µg/L | <41U | <21U | - | <21U | - | <20U | - | - |
| | 2,4-Dinitrotoluene | µg/L | <5.5U | <4.2U | - | <4.2U | - | <4.1U | - | - |
| | 2,6-Dinitrotoluene | µg/L | <1.8U | <3.8U | - | <3.7U | - | <3.7U | - | - |
| | 2-Chloronaphthalene | µg/L | <1.8U | <4.4U | - | <4.3U | - | <4.2U | - | - |
| | 2-Chlorophenol | µg/L | <3.1U | <5U | - | <5U | - | <4.9U | - | - |
| | 2-Methylnaphthalene | µg/L | **10** | **19J** | - | **11J** | - | <5.5U | - | - |
| | 2-Methylphenol | µg/L | **2.1J** | **13J** | - | <3.7U | - | <3.7U | - | - |
| | 2-Nitroaniline | µg/L | <9.4U | <4U | - | <3.9U | - | <3.9U | - | - |
| | 2-Nitrophenol | µg/L | <3.4U | <4.6U | - | <4.5U | - | <4.4U | - | - |
| | 3,3-Dichlorobenzidine | µg/L | <16U | <3.8U | - | <3.7U | - | <3.7UJ | - | - |
| | 3-Nitroaniline | µg/L | <9.4U | <4.6U | - | <4.5UJ | - | <4.4U | - | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <23U | <21U | - | <21U | - | <20U | - | - |
| | 4-Bromophenyl phenyl ether | µg/L | <1.7U | <4.3U | - | <4.2U | - | <4.1U | - | - |
| | 4-Chloro-3-Methylphenol | µg/L | <2.8U | <4.3U | - | <4.2U | - | <4.1U | - | - |
| | 4-Chloroaniline | µg/L | <1.9U | <5.6U | - | <5.5UJ | - | <5.4U | - | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <4.1U | <3.3U | - | <3.3U | - | <3.2U | - | - |
| | 4-Methylphenol | µg/L | **5.4J** | **13J** | - | <3.4U | - | <3.3U | - | - |
| | 4-Nitroaniline | µg/L | <9.4U | <2.4U | - | <2.3U | - | <2.3U | - | - |
| | 4-Nitrophenol | µg/L | <2.8U | <14U | - | <14U | - | <14U | - | - |
| | Acenaphthene | µg/L | <1.7U | <3.9U | - | <3.8U | - | <3.8U | - | - |
| | Acenaphthylene | µg/L | <3.3U | <3.6U | - | <3.6U | - | <3.5U | - | - |
| | Anthracene | µg/L | <1.7U | <2.7U | - | <2.6U | - | <2.6U | - | - |
| | Benz(a)anthracene | µg/L | <7.4U | <3.4U | - | <3.4U | - | <3.3U | - | - |
| | Benzo(a)pyrene | µg/L | <2.5U | <4.5U | - | <4.4U | - | <4.3U | - | - |
| | Benzo(b)fluoranthene | µg/L | <9.4U | <3.2U | - | <3.2U | - | <3.1U | - | - |
| | Benzo(g,h,i)perylene | µg/L | <3.9U | <3.3U | - | <3.3UJ | - | <3.2U | - | - |
| | Benzo(k)fluoranthene | µg/L | <2.4U | <6.9U | - | <6.8U | - | <6.7U | - | - |
| | Benzoic acid | µg/L | <94U | <950U | - | <940U | - | <920U | - | - |
| | Benzyl alcohol | µg/L | <6.6U | **11J** | - | <4.1U | - | <4U | - | - |
| | Bis(2-chloroethoxy) methane | µg/L | <5U | <3.3U | - | <3.3U | - | <3.2U | - | - |
| | Bis(2-chloroethyl)ether | µg/L | <5.4U | <3.8U | - | <3.7U | - | <3.7U | - | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <5.4U | <4.9U | - | <4.9U | - | <4.8U | - | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <9.4UJ | <17U | - | <17U | - | <17U | - | - |
| | Butyl benzyl phthalate | µg/L | <9.4U | <4U | - | <3.9U | - | <3.9U | - | - |
| | Carbazole | µg/L | **0.6J** | <2.8U | - | <2.8U | - | <2.8U | - | - |
| | Chrysene | µg/L | <2.4U | <3.1U | - | <3.1U | - | <3U | - | - |

**MW-1B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/28/2010 | 4/17/2013 | 10/21/2013 | 4/21/2014 | 10/22/2014 | 4/22/2015 | 7/27/2015 | 10/19/2015 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Dibenz(a,h)anthracene | µg/L | <9.4U | <4U | - | <3.9U | - | <3.9U | - | - |
| | Dibenzofuran | µg/L | <9.4U | <4.8U | - | <4.8U | - | <4.7U | - | - |
| | Diethyl phthalate | µg/L | **0.92J** | <2.1U | - | <2.1U | - | <2U | - | - |
| | Dimethyl phthalate | µg/L | <9.4U | <3.4U | - | <3.4U | - | <3.3U | - | - |
| | Di-n-butyl phthalate | µg/L | **1.3J** | <2.9U | - | <2.9U | - | <2.8U | - | - |
| | Di-n-octyl phthalate | µg/L | <9.4U | <4.5U | - | <4.4U | - | <4.3U | - | - |
| | Fluoranthene | µg/L | <2.1U | <3.8U | - | <3.7U | - | <3.7U | - | - |
| | Fluorene | µg/L | <1.8U | <3.4U | - | <3.4U | - | <3.3U | - | - |
| | Hexachlorobenzene | µg/L | <2.1U | <4.8U | - | <4.8U | - | <4.7U | - | - |
| | Hexachlorobutadiene | µg/L | <2.4U | <6.5U | - | <6.4U | - | <6.2U | - | - |
| | Hexachlorocyclopentadiene | µg/L | <9.4U | <5.6U | - | <5.5U | - | <5.4U | - | - |
| | Hexachloroethane | µg/L | <2.7U | <5.6U | - | <5.5U | - | <5.4U | - | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4.5U | <4.5U | - | <4.4U | - | <4.3U | - | - |
| | Isophorone | µg/L | <2.1U | **4.5J** | - | <4U | - | <3.9U | - | - |
| | Naphthalene | µg/L | **22** | **52** | - | **29** | - | **14J** | - | - |
| | Nitrobenzene | µg/L | <1.9U | <2.8U | - | <2.7U | - | <2.7U | - | - |
| | N-nitrosodi-n-propylamine | µg/L | <4.7U | <5.1U | - | <5.1U | - | <5U | - | - |
| | N-Nitrosodiphenylamine | µg/L | <1.8U | <4.8U | - | <4.8U | - | <4.7U | - | - |
| | Pentachlorophenol | µg/L | <4.8U | <21U | - | <21U | - | <20U | - | - |
| | Phenanthrene | µg/L | <4.7U | <4.2U | - | <4.1U | - | <4U | - | - |
| | Phenol | µg/L | **1J** | <3.7U | - | <3.7U | - | <3.6U | - | - |
| | Pyrene | µg/L | <1.8U | <3.2U | - | <3.2U | - | <3.1U | - | - |
| | Total SVOCS | µg/L | **110** | **270** | - | **150** | - | **70** | - | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | **36J** | **200** | **26J** | <4.1U | **15J** | **3.5J** | **20** | **7.9** |
| | 1,1,2,2-Tetrachloroethane | µg/L | <50U | <2.1U | <2.1U | <1.1U | <2.1U | <0.21U | <0.21U | **0.22J** |
| | 1,1,2-Trichloroethane | µg/L | <50U | <2.3U | <2.3U | <1.2U | <2.3U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **95** | **200** | **57** | **21J** | **74** | **14** | **9** | **5.2** |
| | 1,1-Dichloroethene | µg/L | <50U | **3.1J** | <2.9U | <1.5U | <2.9U | <0.29U | **1.6J** | **0.47J** |
| | 1,2-Dichlorobenzene | µg/L | **18J** | **28J** | **23J** | **13J** | **23J** | **7.2** | **6.8** | **5.8** |
| | 1,2-Dichloroethane | µg/L | <50U | <2.1U | <2.1U | <1.1U | <2.1U | **0.28J** | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <50U | <7.2U | <7.2U | <3.6U | <7.2U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <50U | **11J** | **12J** | **13J** | **12J** | **9** | **6.1** | **7.3** |
| | 1,4-Dichlorobenzene | µg/L | **67** | **110** | **100** | **70** | **100** | **34** | **28** | **27** |
| | 2-Butanone | µg/L | <50U | **83** | <13U | <6.6U | <13U | <1.3U | <1.3UJ | <1.3U |
| | 2-Hexanone | µg/L | <50U | <12U | <12U | <6.2U | <12U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <50U | **29J** | <21U | <11U | <21U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <100U | <30U | <30U | <15U | <30U | <3U | <3U | <3U |
| | Benzene | µg/L | **11J** | **20J** | **9.7J** | **6.1J** | **9.6J** | **2.2J** | **1.9J** | **1.2J** |
| | Dichlorobromomethane | µg/L | <50U | <3.9U | <3.9U | <2U | <3.9U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <50U | <2.6U | <2.6U | <1.3U | <2.6U | <0.26UJ | <0.26U | <0.26U |
| | Bromomethane | µg/L | <50U | <6.9U | <6.9U | <3.5U | <6.9U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <50U | <1.9U | <1.9U | <0.95U | <1.9U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <50U | <2.7U | <2.7U | <1.4U | <2.7U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **44J** | **74** | **73** | **39** | **64** | **14** | **15** | **12** |
| | Chlorodibromomethane | µg/L | <50U | <3.2U | <3.2U | <1.6U | <3.2U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <50U | <3.2U | <3.2U | **3.9J** | <3.2U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <50U | **20J** | <3.4U | <1.7U | <3.4U | <0.34U | **2.1J** | **0.83J** |
| | Chloromethane | µg/L | <50U | <3.5U | <3.5U | <1.8U | <3.5U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **300** | **1400** | **140** | <4.1U | **68** | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <50U | <3.6U | <3.6U | <1.8U | <3.6U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <50U | <4.4U | <4.4U | <2.2U | <4.4U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | **62** | **170** | **70** | **41** | **70** | **12** | **17** | **8.4** |
| | Styrene | µg/L | <50U | <7.3U | <7.3U | <3.7U | <7.3U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **14J** | <4.6U | <4.6U | <2.3U | <4.6U | <5U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <50U | **4.2J** | <3.6U | <1.8U | <3.6U | <0.36U | **0.47J** | <0.36U |
| | Toluene | µg/L | **890** | **3700** | **660** | **300** | **580** | <0.51UJ | **0.74J** | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <10U | <9U | <9U | <4.5U | <9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <50U | <3.7U | <3.7U | <1.9U | <3.7U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | **180** | **550** | **110** | <4.5U | **56** | <0.9U | **1.2J** | <0.9U |
| | Total Xylenes | µg/L | **190** | **630** | **270** | **140** | **260** | **3.1J** | **23** | **1.4J** |
| | Total VOCS | µg/L | **2000** | **7300** | **1600** | **650** | **1400** | **100** | **140** | **78** |

**MW-1B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 5/16/2016 | 7/18/2016 | 10/26/2016 | 4/25/2017 | 7/31/2017 | 10/17/2017 | 5/8/2018 | 7/19/2018 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | 107 | 45.6 | 27.6 | 32.9J+ | 43.6J+ | 38.3 | 96.7 | 99.8 |
| | Ammonia | mg/L | 7.1 | 5.9 | 4.2 | 4.6 | 7.2 | 4.7 | 5.7 | 5.8 |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.02U | 0.02J | <0.02U | 0.02J | <0.02U | 0.027J | <0.02U |
| | Sulfate | mg/L | 86.1 | 69.2 | 41.6 | 34 | 110 | 61.2 | 95.2 | 106 |
| | Total Organic Carbon | mg/L | 6.7 | 4.3 | 2.2 | 1.9 | 4.7 | 2.3 | 4.4 | 7.6 |
| Metals | Arsenic | µg/L | 38 | 32 | 27 | 39 | 39 | 30 | 37 | 41 |
| | Iron | µg/L | 38,300 | 28,100 | 17,200 | 16,700 | 32,800 | 20,000 | 32,500 | 36,800 |
| | Manganese | µg/L | 9,900 | 8,300 | 5,600 | 5,300 | 12,200 | 8,300 | 13,600 | 17,400 |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | 24 | - | - | 5.9 | - | - | 3.9 | - |
| | 1,2-Dichlorobenzene | µg/L | 5.1 | - | - | 0.97J | - | - | <1.6U | - |
| | 1,3-Dichlorobenzene | µg/L | 6.5 | - | - | 2 | - | - | 1.8 | - |
| | 1,4-Dichlorobenzene | µg/L | 28 | - | - | 4.2J | - | - | 3.1 | - |
| | 1,4-Dioxane | µg/L | 14 | - | - | 9.2J | - | - | <1.1U | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.46U | - | - | <0.48U | - | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.58U | - | - | <0.61U | - | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.49U | - | - | <0.51U | - | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <0.48U | - | - | <0.5U | - | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | <2.1U | - | - | <2.2U | - | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.43U | - | - | <0.45U | - | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.38U | - | - | <0.4U | - | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | <0.44U | - | - | <0.46U | - | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.51U | - | - | <0.53U | - | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.57U | - | - | <0.6U | - | - | <0.6U | - |
| | 2-Methylphenol | µg/L | 0.58J | - | - | <0.4U | - | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | <0.4U | - | - | <0.42U | - | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.46U | - | - | <0.48U | - | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.38U | - | - | <0.4U | - | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | <0.46U | - | - | <0.48U | - | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.1U | - | - | <2.2U | - | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.43U | - | - | <0.45U | - | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.43U | - | - | <0.45U | - | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | <0.56U | - | - | <0.59U | - | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.34U | - | - | <0.35U | - | - | <0.35U | - |
| | 4-Methylphenol | µg/L | 0.36J | - | - | <0.36U | - | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.24U | - | - | <0.25U | - | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | - | <1.5U | - | - | <1.5U | - |
| | Acenaphthene | µg/L | 0.46J | - | - | <0.41U | - | - | 0.42J | - |
| | Acenaphthylene | µg/L | <0.36U | - | - | <0.38U | - | - | <0.38U | - |
| | Anthracene | µg/L | <0.27U | - | - | <0.28U | - | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.34U | - | - | <0.36U | - | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.45U | - | - | <0.47U | - | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.33U | - | - | <0.34U | - | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.34U | - | - | <0.35U | - | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <0.7U | - | - | <0.73U | - | - | <0.73U | - |
| | Benzoic acid | µg/L | - | - | - | <100U | - | - | <100U | - |
| | Benzyl alcohol | µg/L | <0.42U | - | - | <0.44U | - | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.34U | - | - | <0.35U | - | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.38U | - | - | <0.4U | - | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.5U | - | - | <0.52U | - | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.7U | - | - | <1.8U | - | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <0.4U | - | - | <0.42U | - | - | <0.42U | - |
| | Carbazole | µg/L | 0.37J | - | - | 0.33J | - | - | <0.3U | - |
| | Chrysene | µg/L | <0.32U | - | - | <0.33U | - | - | <0.33U | - |

**MW-1B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 5/16/2016 | 7/18/2016 | 10/26/2016 | 4/25/2017 | 7/31/2017 | 10/17/2017 | 5/8/2018 | 7/19/2018 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Dibenz(a,h)anthracene | µg/L | <0.4U | - | - | <0.42U | - | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.49U | - | - | <0.51U | - | - | <0.51U | - |
| | Diethyl phthalate | µg/L | **0.39J** | - | - | <0.22U | - | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | <0.34U | - | - | <0.36U | - | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | <0.3U | - | - | <0.31U | - | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | <0.45U | - | - | <0.47U | - | - | <0.47U | - |
| | Fluoranthene | µg/L | <0.38U | - | - | <0.4U | - | - | <0.4U | - |
| | Fluorene | µg/L | <0.34U | - | - | <0.36U | - | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | <0.49U | - | - | <0.51U | - | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.65U | - | - | <0.68U | - | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.56U | - | - | <0.59U | - | - | <0.59U | - |
| | Hexachloroethane | µg/L | <0.56U | - | - | <0.59U | - | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.45U | - | - | <0.47U | - | - | <0.47U | - |
| | Isophorone | µg/L | **0.58J** | - | - | <0.43U | - | - | <0.43U | - |
| | Naphthalene | µg/L | **5.3** | - | - | <0.76U | - | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.28U | - | - | <0.29U | - | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.52U | - | - | <0.54U | - | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | <0.49U | - | - | <0.51U | - | - | <0.51U | - |
| | Pentachlorophenol | µg/L | **2.2J** | - | - | <2.2U | - | - | <2.2U | - |
| | Phenanthrene | µg/L | <0.42U | - | - | <0.44U | - | - | <0.44U | - |
| | Phenol | µg/L | **0.39J** | - | - | <0.39U | - | - | <0.39U | - |
| | Pyrene | µg/L | <0.33U | - | - | <0.34U | - | - | <0.34U | - |
| | Total SVOCS | µg/L | **89** | - | - | **23** | - | - | **11** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | **14** | **13** | **2J** | <0.82U | **2J** | <0.82U | <1.6U | **3.3J** |
| | 1,1,2,2-Tetrachloroethane | µg/L | **0.49J** | **0.55J** | <0.21U | <0.21U | **0.25J** | <0.21U | <0.42U | **0.46J** |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.46U | <0.46U |
| | 1,1-Dichloroethane | µg/L | **11** | **6.4** | **2.2J** | **1.9J** | **3.6J** | **1.8J** | **4.3J** | **15** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.58U | <0.58U |
| | 1,2-Dichlorobenzene | µg/L | **6.3** | **4.3J** | **1.8J** | **1J** | **1.3J** | **0.8J** | **0.82J** | **2.5J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.42U | <0.42U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <1.4U | <1.4U |
| | 1,3-Dichlorobenzene | µg/L | **7.8** | **5.5** | **5.4** | **2.1J** | **4.2J** | **2.9J** | **2.4J** | **2.8J** |
| | 1,4-Dichlorobenzene | µg/L | **32** | **20** | **7.8** | **4.6J** | **4.8J** | **3.4J** | **3.7J** | **9.8J** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <5U | <1.3U | <2.6U | <2.6U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <2.5UJ | <2.5U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <4.2UJ | <4.2U |
| | Acetone | µg/L | **3.3J** | **6.9J** | **3.3J** | <3U | **16** | **4.3J** | <6U | **7.6J** |
| | Benzene | µg/L | **1.4J** | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.82U | **1.2J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.78U | <0.78U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.52U | <0.52U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <1.4U | <1.4U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.38U | <0.38U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.54U | <0.54U |
| | Chlorobenzene | µg/L | **9.7** | **5** | **2.3J** | **1.7J** | **2.3J** | **1.5J** | **2.8J** | **6.4J** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.64U | <0.64U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.64U | <0.64U |
| | Chloroform | µg/L | **2J** | **0.96J** | <0.34U | <0.34U | <0.34U | <0.34U | <0.68U | <1.3U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.7U | <0.7U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | **1.1** | <0.81U | <1.6U | **15** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.72U | <0.72U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <2.1U | <0.88U |
| | Ethylbenzene | µg/L | **8.6** | **2.7J** | <0.74U | <0.74U | <0.74U | <0.74U | <1.5U | **5.8J** |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <1.5U | <1.5U |
| | Trichloroethene | µg/L | **0.9J** | **1.7J** | **1.2J** | **2.3J** | **3.7J** | **1.2J** | **0.98J** | **4.3J** |
| | Tetrachloroethene | µg/L | **0.42J** | **0.75J** | <0.36U | <0.36U | **0.39J** | <0.36U | <0.72U | **1.3J** |
| | Toluene | µg/L | **0.53J** | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <1U | **2.1J** |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <1.8U | <1.8U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.74U | <0.74U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | **1.9J** | <0.9U | <1.8U | **19** |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <1.3U | **7.9J** |
| | Total VOCS | µg/L | **99** | **68** | **26** | **14** | **42** | **16** | **15** | **110** |

**MW-1B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/15/2018 | 4/23/2019 | 7/22/2019 | 10/7/2019 | 4/30/2020 | 7/7/2020 | 10/20/2020 | 4/27/2021 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | 68.7 | 49.8 | 65.8 | 113 | 88.6 | 114 | 104J | 98.8 |
| | Ammonia | mg/L | 6.1 | 3.9J- | 4.9 | 6.6 | 5.2 | 5.8 | 4.6J | 4.4 |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.02U | 0.043U | 0.03U | 0.021J | <0.02U | 0.069J | <0.02U |
| | Sulfate | mg/L | 63.3 | 25.3 | 37.5 | 50.1 | 21.5 | 18 | 34 | 21.5 |
| | Total Organic Carbon | mg/L | 3.8 | 2J | 4.3 | 6.1 | 3.6 | 5.9J | 3.6J | 3.2 |
| Metals | Arsenic | µg/L | 38 | 32 | 36 | 35 | 36 | 28 | 31J | 33 |
| | Iron | µg/L | 26,300 | 13,100 | 24,300 | 28,300 | 17,700J | 23,600 | 22,700J | 20,300 |
| | Manganese | µg/L | 12,100 | 5,700 | 10,100 | 13,900 | 8,500 | 11,500 | 12,200 | 10,100 |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | 1.8J | - | - | 6.6 | - | - | 2.5 |
| | 1,2-Dichlorobenzene | µg/L | - | 0.4J | - | - | 2.4J | - | - | 1.2J |
| | 1,3-Dichlorobenzene | µg/L | - | 0.76J | - | - | 3.9J | - | - | 1.9 |
| | 1,4-Dichlorobenzene | µg/L | - | 1.8J | - | - | 11 | - | - | 5 |
| | 1,4-Dioxane | µg/L | - | 4.3J | - | - | 9.3J | - | - | 6J |
| | 2,4,5-Trichlorophenol | µg/L | - | <0.48U | - | - | <0.48U | - | - | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | - | <0.61U | - | - | <0.61U | - | - | <0.61U |
| | 2,4-Dichlorophenol | µg/L | - | <0.51U | - | - | <0.51U | - | - | <0.51U |
| | 2,4-Dimethylphenol | µg/L | - | <0.5U | - | - | <0.5U | - | - | <0.5U |
| | 2,4-Dinitrophenol | µg/L | - | <2.2U | - | - | <2.2U | - | - | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | - | <0.45U | - | - | <0.45U | - | - | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | - | <0.4U | - | - | <0.4U | - | - | <0.4U |
| | 2-Chloronaphthalene | µg/L | - | <0.46U | - | - | <0.46U | - | - | <0.46U |
| | 2-Chlorophenol | µg/L | - | <0.53U | - | - | <0.53U | - | - | <0.53U |
| | 2-Methylnaphthalene | µg/L | - | <0.6U | - | - | <0.6U | - | - | <0.6U |
| | 2-Methylphenol | µg/L | - | <0.4U | - | - | <0.4U | - | - | <0.4U |
| | 2-Nitroaniline | µg/L | - | <0.42U | - | - | <0.42U | - | - | <0.42U |
| | 2-Nitrophenol | µg/L | - | <0.48U | - | - | <0.48U | - | - | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | - | <0.4U | - | - | <0.4U | - | - | <0.4U |
| | 3-Nitroaniline | µg/L | - | <0.48U | - | - | <0.48U | - | - | <0.48UJ |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | <2.2U | - | - | <2.2U | - | - | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | - | <0.45U | - | - | <0.45U | - | - | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | - | <0.45U | - | - | <0.45U | - | - | <0.45U |
| | 4-Chloroaniline | µg/L | - | <0.59U | - | - | <0.59U | - | - | <0.59UJ |
| | 4-Chlorophenyl phenyl ether | µg/L | - | <0.35U | - | - | <0.35U | - | - | <0.35U |
| | 4-Methylphenol | µg/L | - | <0.36U | - | - | <0.36U | - | - | <0.36U |
| | 4-Nitroaniline | µg/L | - | <0.25U | - | - | <0.25U | - | - | <0.25U |
| | 4-Nitrophenol | µg/L | - | <1.5U | - | - | <1.5U | - | - | <1.5U |
| | Acenaphthene | µg/L | - | <0.41U | - | - | 0.54J | - | - | <0.41U |
| | Acenaphthylene | µg/L | - | <0.38U | - | - | <0.38U | - | - | <0.38U |
| | Anthracene | µg/L | - | <0.28U | - | - | <0.28U | - | - | <0.28U |
| | Benz(a)anthracene | µg/L | - | <0.36U | - | - | <0.36U | - | - | <0.36U |
| | Benzo(a)pyrene | µg/L | - | <0.47U | - | - | <0.47U | - | - | <0.47U |
| | Benzo(b)fluoranthene | µg/L | - | <0.34U | - | - | <0.34U | - | - | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | - | <0.35U | - | - | <0.35U | - | - | <0.35U |
| | Benzo(k)fluoranthene | µg/L | - | <0.73U | - | - | <0.73U | - | - | <0.73U |
| | Benzoic acid | µg/L | - | <100U | - | - | <100U | - | - | <100U |
| | Benzyl alcohol | µg/L | - | <0.44U | - | - | <0.44U | - | - | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | - | <0.35U | - | - | <0.35U | - | - | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | - | <0.4U | - | - | <0.40U | - | - | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | - | <0.52U | - | - | <0.52U | - | - | <0.52U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | <1.8U | - | - | <1.8U | - | - | <1.8U |
| | Butyl benzyl phthalate | µg/L | - | <0.42U | - | - | <0.42U | - | - | <10U |
| | Carbazole | µg/L | - | <0.3U | - | - | <0.3U | - | - | <0.3U |
| | Chrysene | µg/L | - | <0.33U | - | - | <0.33U | - | - | <0.33U |

**MW-1B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/15/2018 | 4/23/2019 | 7/22/2019 | 10/7/2019 | 4/30/2020 | 7/7/2020 | 10/20/2020 | 4/27/2021 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Dibenz(a,h)anthracene | µg/L | - | <0.42U | - | - | <0.42U | - | - | <0.42U |
| | Dibenzofuran | µg/L | - | <0.51U | - | - | <0.51U | - | - | <0.51U |
| | Diethyl phthalate | µg/L | - | <0.22U | - | - | <0.22U | - | - | <0.22U |
| | Dimethyl phthalate | µg/L | - | <0.36U | - | - | <0.36U | - | - | <0.36U |
| | Di-n-butyl phthalate | µg/L | - | <0.31U | - | - | <0.31U | - | - | **0.31J** |
| | Di-n-octyl phthalate | µg/L | - | <0.47U | - | - | <0.47U | - | - | <0.47U |
| | Fluoranthene | µg/L | - | <0.4U | - | - | <0.40U | - | - | <0.4U |
| | Fluorene | µg/L | - | <0.36U | - | - | <0.36U | - | - | <0.36U |
| | Hexachlorobenzene | µg/L | - | <0.51U | - | - | <0.51U | - | - | <0.51U |
| | Hexachlorobutadiene | µg/L | - | <0.68U | - | - | <0.68U | - | - | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | - | <0.59U | - | - | <0.59U | - | - | <0.59U |
| | Hexachloroethane | µg/L | - | <0.59U | - | - | <0.59U | - | - | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | <0.47U | - | - | <0.47U | - | - | <0.47U |
| | Isophorone | µg/L | - | <0.43U | - | - | <0.43U | - | - | <0.43U |
| | Naphthalene | µg/L | - | <0.76U | - | - | <0.76U | - | - | <0.76U |
| | Nitrobenzene | µg/L | - | <0.29U | - | - | <0.29U | - | - | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | - | <0.54U | - | - | <0.54U | - | - | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | - | <0.51U | - | - | <0.51U | - | - | <0.51U |
| | Pentachlorophenol | µg/L | - | <2.2U | - | - | <2.2U | - | - | <2.2UJ |
| | Phenanthrene | µg/L | - | <0.44U | - | - | <0.44U | - | - | <0.44U |
| | Phenol | µg/L | - | <0.39U | - | - | <0.39U | - | - | <0.39U |
| | Pyrene | µg/L | - | <0.34U | - | - | <0.34U | - | - | <0.34U |
| | Total SVOCS | µg/L | - | **9.1** | - | - | **33.74** | - | - | **17** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | **1.6J** | **2J** | <0.82U | **4.2J** | **0.98J** | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | **0.85J** | <0.21U | <0.21UJ | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23UJ | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **7.4** | **0.46J** | **10** | **14** | **4.1J** | **19** | **5.5J** | **2.5J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **2.2J** | <0.79U | <0.79U | **12** | **2.2J** | **4.6J** | **8.5J** | **2.5J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21UJ | <0.21U | <0.21UJ | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **3.5J** | **1.1J** | **0.94J** | **9.9** | **3.6J** | **7.2** | **11J** | **4.4J** |
| | 1,4-Dichlorobenzene | µg/L | **8.8** | **2.3J** | **3.5J** | **60** | **11** | **23** | **39J** | **11** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | **2.6J** | <1.3U | <1.3U | **2.5J** | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | **2.3J** | <2.1U | <2.1U | **3.5J** | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3.0U | **3.2J** | <3.0U | <3U |
| | Benzene | µg/L | **0.74J** | <0.41U | **0.88J** | **3.6J** | **0.66J** | **2.9J** | **2J** | **0.67J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **4.5J** | **1J** | **4.1J** | **24** | **5.2** | **29** | **27J** | **8.4** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | **2.3J** | <0.32U | <0.32U | <0.32UJ | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | **0.43J** | **1.8J** | <0.34U | **1.2J** | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35UJ | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | **7** | **6.4** | <0.81U | **1.3** | <0.81UJ | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | **1.7J** | **6.6** | <0.74U | **7.5** | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **1.4J** | **0.59J** | **0.72J** | **3.1J** | <0.46U | **1.3J** | <0.46UJ | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | **0.5J** | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | **16** | **1.1J** | <0.51U | **3.9J** | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9UJ | <0.90U | <0.90U | <0.90U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | **10** | **6.6** | <0.9U | **2.2J** | <0.9UJ | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | **2.7J** | **3.6J** | <0.66U | **15** | <0.66U | <0.66U |
| | Total VOCS | µg/L | **29** | **5.5** | **67** | **160** | **27** | **140** | **94** | **30** |

**MW-1B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 7/19/2021 | 12/22/2021 | 4/20/2022 | 7/26/2022 | 10/26/2022 | 4/25/2023 | 8/1/2023 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | 124 | 117 | 67.5 | 117J- | 106 | 110 | 114 |
| | Ammonia | mg/L | 6.3 | 4.7 | 3.4 | 4.9J- | 4.2 | 5.4 | 4.8 |
| | Nitrate+Nitrite | mg/L | 0.11J | 0.025J | <0.02U | 0.31J- | <0.02U | 0.023J | <0.02U |
| | Sulfate | mg/L | 17.7 | 9.2 | 11 | 9J- | 22.8 | <1.5U | 4.7J |
| | Total Organic Carbon | mg/L | 5.5 | 7.4 | 2.1 | 6J- | 3.8 | 4.9 | 4.4J+ |
| Metals | Arsenic | µg/L | 27 | 26 | 31 | 22 | 29 | 30 | 31 |
| | Iron | µg/L | 23,300 | 22,400 | 12,400 | 23,300 | 22,300 | 20,200 | 23,600 |
| | Manganese | µg/L | 13,400 | 11,900 | 6,500 | 13,600 | 12,100 | 10,600 | 12,300 |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | - | 2.9 | - | - | 4.7 | - |
| | 1,2-Dichlorobenzene | µg/L | - | - | 1.9 | - | - | 5.4 | - |
| | 1,3-Dichlorobenzene | µg/L | - | - | 2.7 | - | - | 7.4 | - |
| | 1,4-Dichlorobenzene | µg/L | - | - | 6.9 | - | - | 15 | - |
| | 1,4-Dioxane | µg/L | - | - | 7.7J | - | - | 16 | - |
| | 2,4,5-Trichlorophenol | µg/L | - | - | <0.48U | - | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | - | - | <0.61U | - | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | - | - | <0.51U | - | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | - | - | <0.5U | - | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | - | - | <2.2U | - | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | - | - | <0.45U | - | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | - | - | <0.4U | - | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | - | - | <0.46U | - | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | - | - | <0.53U | - | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | - | - | <0.6U | - | - | <0.6U | - |
| | 2-Methylphenol | µg/L | - | - | <0.4U | - | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | - | - | <0.42U | - | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | - | - | <0.48U | - | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | - | - | <0.4U | - | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | - | - | <0.48U | - | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | - | <2.2U | - | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | - | <0.45U | - | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | - | 0.59J | - | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | - | - | <0.59U | - | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | - | <0.35U | - | - | <0.35U | - |
| | 4-Methylphenol | µg/L | - | - | <0.36U | - | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | - | - | <0.25U | - | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | - | - | <1.5U | - | - | <1.5U | - |
| | Acenaphthene | µg/L | - | - | <0.41U | - | - | <0.41U | - |
| | Acenaphthylene | µg/L | - | - | <0.38U | - | - | <0.38U | - |
| | Anthracene | µg/L | - | - | <0.28U | - | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | - | - | <0.36U | - | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | - | - | <0.47U | - | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | - | - | <0.34U | - | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | - | - | <0.35U | - | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | - | - | <0.73U | - | - | <0.73U | - |
| | Benzoic acid | µg/L | - | - | <100U | - | - | <100U | - |
| | Benzyl alcohol | µg/L | - | - | <0.44U | - | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | - | <0.35U | - | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | - | - | <0.4U | - | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | - | <0.52U | - | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | - | <1.8U | - | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | - | - | <0.42U | - | - | <0.42U | - |
| | Carbazole | µg/L | - | - | <0.3U | - | - | <0.3U | - |
| | Chrysene | µg/L | - | - | <0.33U | - | - | <0.33U | - |

**MW-1B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 7/19/2021 | 12/22/2021 | 4/20/2022 | 7/26/2022 | 10/26/2022 | 4/25/2023 | 8/1/2023 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Dibenz(a,h)anthracene | µg/L | - | - | <0.42U | - | - | <0.42U | - |
| | Dibenzofuran | µg/L | - | - | <0.51U | - | - | <0.51U | - |
| | Diethyl phthalate | µg/L | - | - | **0.38J** | - | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | - | - | <0.36U | - | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | - | - | <10U | - | - | **0.82J** | - |
| | Di-n-octyl phthalate | µg/L | - | - | <0.47U | - | - | <0.47U | - |
| | Fluoranthene | µg/L | - | - | <0.4U | - | - | <0.4U | - |
| | Fluorene | µg/L | - | - | <0.36U | - | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | - | - | <0.51U | - | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | - | - | <0.68U | - | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | - | - | <0.59U | - | - | <0.59U | - |
| | Hexachloroethane | µg/L | - | - | <0.59U | - | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | - | <0.47U | - | - | <0.47U | - |
| | Isophorone | µg/L | - | - | <0.43U | - | - | <0.43U | - |
| | Naphthalene | µg/L | - | - | <0.76U | - | - | <0.76U | - |
| | Nitrobenzene | µg/L | - | - | <0.29U | - | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | - | - | <0.54U | - | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | - | - | <0.51U | - | - | <0.51U | - |
| | Pentachlorophenol | µg/L | - | - | <2.2UJ | - | - | <2.2U | - |
| | Phenanthrene | µg/L | - | - | <0.44U | - | - | <0.44U | - |
| | Phenol | µg/L | - | - | <0.39U | - | - | <0.39U | - |
| | Pyrene | µg/L | - | - | <0.34U | - | - | <0.34U | - |
| | Total SVOCS | µg/L | - | - | **24** | - | - | **50** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | **2.2J** | **4.1J** | <0.82U | **3.7J** | <0.82U | **2.4J** | **1.3J** |
| | 1,1,2,2-Tetrachloroethane | µg/L | **0.31J** | <0.42U | <0.21U | **0.53J** | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.46U | <0.23U | <0.23UJ | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **13** | **17** | **2.9J** | **21J** | **6.7** | **11** | **16** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.58U | <0.29U | <0.29UJ | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **10** | **4J** | **2.7J** | **13J** | **8.4** | **6.7** | **14** |
| | 1,2-Dichloroethane | µg/L | <0.21UJ | <0.42U | <0.21U | **0.46J** | <0.21U | <0.21U | **0.44J** |
| | 1,2-Dichloropropane | µg/L | <0.72U | <1.4U | <0.72U | <0.72UJ | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **15** | **6.2J** | **3.9J** | **16J** | **11** | **8.9** | **18** |
| | 1,4-Dichlorobenzene | µg/L | **42** | **15** | **9.7** | **47J** | **28** | **19** | **46** |
| | 2-Butanone | µg/L | <1.3U | <2.6U | <1.3U | <1.3UJ | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <2.5U | <1.2U | <1.2UJ | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <4.2U | <2.1U | <2.1UJ | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <10U | <6U | <3U | <3UJ | <3U | <3U | **3.1J** |
| | Benzene | µg/L | **4.1J** | **2.5J** | **0.75J** | **5.7J** | **2.5J** | <0.41U | **5.4** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.78U | <0.39U | <0.39UJ | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.52U | <0.26U | <0.26UJ | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <1.4U | <0.69U | <0.69UJ | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.38U | <0.19U | <0.19UJ | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.54U | <0.27U | <0.27UJ | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **58** | **30** | **13** | **99J** | **42** | **34** | **96** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.64U | <0.32U | <0.32UJ | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.64U | <0.32U | <0.32UJ | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | **0.47J** | **0.97J** | <0.34U | **0.92J** | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.7U | <0.35U | <0.35UJ | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <1.6U | <0.81U | **2.8J** | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.72U | <0.36U | <0.36UJ | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.88U | <0.44U | <0.44UJ | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | **3.9J** | **6.7J** | <0.74U | **8.3J** | <0.74U | **0.8J** | <0.74U |
| | Styrene | µg/L | <0.73U | <1.5U | <0.73U | <0.73UJ | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **1.2J** | <0.92U | **0.79J** | **1.4J** | <0.46U | **0.47J** | **0.65J** |
| | Tetrachloroethene | µg/L | <0.36U | <0.72U | <0.36U | <0.36UJ | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | **7.2J** | <0.51U | **1.9J** | <0.51U | **0.69J** | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <1.8U | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.74U | <0.37U | <0.37UJ | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <1.8U | <0.9U | **4.9J** | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | **2.5J** | **12** | <0.66U | **9.4J** | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **160** | **110** | **34** | **240** | **99** | **84** | **210** |

**MW-1B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/31/2023 | 5/1/2024 | 7/29/2024 | 10/29/2024 | 4/22/2025 | 7/30/2025 | 10/23/2025 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | 165 | 96.4J- | 142 | 124 | 106 | 122 | 86.7 |
| | Ammonia | mg/L | 3.3 | 3.9 | 5 | 1.3 | 3.4 | 1.8 | 3.7 |
| | Nitrate+Nitrite | mg/L | 0.051J+ | 0.049J | <0.02U | <0.02U | 0.029J | 0.034J | <0.02U |
| | Sulfate | mg/L | 10.6 | 8.1 | 6.6 | 11.8 | 6.4 | <1.5U | 8.7 |
| | Total Organic Carbon | mg/L | 3 | 2.4 | 3.7 | 4.2 | 4.8 | 5 | 1.9 |
| Metals | Arsenic | µg/L | 34 | 36 | 25 | 26 | 34 | 23 | 23 |
| | Iron | µg/L | 19,200 | 20,600 | 22,800 | 21,400 | 20,700 | 25,200 | 21,800 |
| | Manganese | µg/L | 11,200 | 10,300 | 13,200 | 11,500 | 10,500 | 12,800 | 11,000 |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | 1.1J | - | - | 4.1J+ | - | - |
| | 1,2-Dichlorobenzene | µg/L | - | 0.63J | - | - | 5.8 | - | - |
| | 1,3-Dichlorobenzene | µg/L | - | 0.94J | - | - | 6.6 | - | - |
| | 1,4-Dichlorobenzene | µg/L | - | 2.6J | - | - | 16 | - | - |
| | 1,4-Dioxane | µg/L | - | 4J | - | - | 25 | - | - |
| | 2,4,5-Trichlorophenol | µg/L | - | <0.48U | - | - | <0.48U | - | - |
| | 2,4,6-Trichlorophenol | µg/L | - | <0.61U | - | - | <0.61U | - | - |
| | 2,4-Dichlorophenol | µg/L | - | <0.51U | - | - | <0.51U | - | - |
| | 2,4-Dimethylphenol | µg/L | - | <0.5U | - | - | <0.5U | - | - |
| | 2,4-Dinitrophenol | µg/L | - | <2.2U | - | - | <2.2U | - | - |
| | 2,4-Dinitrotoluene | µg/L | - | <0.45U | - | - | <0.45U | - | - |
| | 2,6-Dinitrotoluene | µg/L | - | <0.4U | - | - | <0.4U | - | - |
| | 2-Chloronaphthalene | µg/L | - | <0.46U | - | - | <0.46U | - | - |
| | 2-Chlorophenol | µg/L | - | <0.53U | - | - | <0.53U | - | - |
| | 2-Methylnaphthalene | µg/L | - | <0.6U | - | - | <0.6U | - | - |
| | 2-Methylphenol | µg/L | - | <0.4U | - | - | <0.4U | - | - |
| | 2-Nitroaniline | µg/L | - | <0.42U | - | - | <0.42U | - | - |
| | 2-Nitrophenol | µg/L | - | <0.48U | - | - | <0.48U | - | - |
| | 3,3-Dichlorobenzidine | µg/L | - | <0.4U | - | - | <0.4U | - | - |
| | 3-Nitroaniline | µg/L | - | <0.48U | - | - | <0.48UJ | - | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | <2.2U | - | - | <2.2U | - | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | <0.45U | - | - | <0.45U | - | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | <0.45U | - | - | <0.45U | - | - |
| | 4-Chloroaniline | µg/L | - | <0.59U | - | - | <0.59U | - | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | <0.35U | - | - | <0.35U | - | - |
| | 4-Methylphenol | µg/L | - | <0.36U | - | - | <0.36U | - | - |
| | 4-Nitroaniline | µg/L | - | <0.25U | - | - | <0.25U | - | - |
| | 4-Nitrophenol | µg/L | - | <1.5U | - | - | <1.5U | - | - |
| | Acenaphthene | µg/L | - | <0.41U | - | - | <0.41U | - | - |
| | Acenaphthylene | µg/L | - | <0.38U | - | - | <0.38U | - | - |
| | Anthracene | µg/L | - | <0.28U | - | - | <0.28U | - | - |
| | Benz(a)anthracene | µg/L | - | <0.36U | - | - | <0.36U | - | - |
| | Benzo(a)pyrene | µg/L | - | <0.47U | - | - | <0.47U | - | - |
| | Benzo(b)fluoranthene | µg/L | - | <0.34U | - | - | <0.34U | - | - |
| | Benzo(g,h,i)perylene | µg/L | - | <0.35U | - | - | <0.35U | - | - |
| | Benzo(k)fluoranthene | µg/L | - | <0.73U | - | - | <0.73U | - | - |
| | Benzoic acid | µg/L | - | <100U | - | - | <100U | - | - |
| | Benzyl alcohol | µg/L | - | <0.44U | - | - | <0.44U | - | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | <0.35U | - | - | <0.35U | - | - |
| | Bis(2-chloroethyl)ether | µg/L | - | <0.4U | - | - | <0.4U | - | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | <0.52U | - | - | <0.52UJ | - | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | <1.8U | - | - | <1.8U | - | - |
| | Butyl benzyl phthalate | µg/L | - | <0.42U | - | - | <0.42U | - | - |
| | Carbazole | µg/L | - | <0.3U | - | - | <0.3UJ | - | - |
| | Chrysene | µg/L | - | <0.33U | - | - | <0.33U | - | - |

**MW-1B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B | MW-1B |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/31/2023 | 5/1/2024 | 7/29/2024 | 10/29/2024 | 4/22/2025 | 7/30/2025 | 10/23/2025 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Dibenz(a,h)anthracene | µg/L | - | <0.42U | - | - | <0.42U | - | - |
| | Dibenzofuran | µg/L | - | <0.51U | - | - | <0.51U | - | - |
| | Diethyl phthalate | µg/L | - | <0.22U | - | - | <0.22U | - | - |
| | Dimethyl phthalate | µg/L | - | <0.36U | - | - | <0.36U | - | - |
| | Di-n-butyl phthalate | µg/L | - | <0.31U | - | - | <0.31U | - | - |
| | Di-n-octyl phthalate | µg/L | - | <0.47U | - | - | <0.47U | - | - |
| | Fluoranthene | µg/L | - | <0.4U | - | - | <0.4U | - | - |
| | Fluorene | µg/L | - | <0.36U | - | - | <0.36U | - | - |
| | Hexachlorobenzene | µg/L | - | <0.51U | - | - | <0.51U | - | - |
| | Hexachlorobutadiene | µg/L | - | <0.68U | - | - | <0.68U | - | - |
| | Hexachlorocyclopentadiene | µg/L | - | <0.59U | - | - | <0.59U | - | - |
| | Hexachloroethane | µg/L | - | <0.59U | - | - | <0.59U | - | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | <0.47U | - | - | <0.47U | - | - |
| | Isophorone | µg/L | - | <0.43U | - | - | <0.43U | - | - |
| | Naphthalene | µg/L | - | <0.76U | - | - | <0.76U | - | - |
| | Nitrobenzene | µg/L | - | <0.29U | - | - | <0.29U | - | - |
| | N-nitrosodi-n-propylamine | µg/L | - | <0.54U | - | - | <0.54UJ | - | - |
| | N-Nitrosodiphenylamine | µg/L | - | <0.51U | - | - | <0.51U | - | - |
| | Pentachlorophenol | µg/L | - | <2.2U | - | - | <2.2U | - | - |
| | Phenanthrene | µg/L | - | <0.44U | - | - | <0.44U | - | - |
| | Phenol | µg/L | - | <0.39U | - | - | <0.39U | - | - |
| | Pyrene | µg/L | - | <0.34U | - | - | <0.34U | - | - |
| | Total SVOCS | µg/L | - | **9.3** | - | - | **58** | - | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | **1.9J** | <0.82U | <0.82U | **3.1J** | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **5.8** | <0.38UJ | **18** | **8.9** | **5.9** | **18** | **5.9** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **7.4** | <0.79U | **15** | **15** | **8.3** | **14** | **9.8** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | **0.39J** | **0.3J** | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **9.8** | **1.1J** | **16** | **16** | **10** | **16** | **10** |
| | 1,4-Dichlorobenzene | µg/L | **21** | **3.5J** | **49** | **45** | **24** | **43** | **28** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | **1.9J** | <0.41U | **6.3** | **3.5J** | <0.41U | **5.6** | **2.4J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27UJ | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **43** | **4.1J** | **130** | **85** | **40** | **94** | **60** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32UJ | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | **0.43J** | <0.34U | <0.34U | **0.69J** | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35UJ | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | **1.7** | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | **6.9** | <0.74U | <0.74U | **11** | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | **0.63J** | <0.46U | <0.46U | **0.52J** | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | **1.6J** | <0.51U | <0.51U | **7.1** | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | **3.5J** | <0.9U | <0.9U | **1.5J** | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | **7.6** | <0.66U | <0.66U | **17** | <0.66U |
| | Total VOCS | µg/L | **89** | **8.7** | **260** | **180** | **89** | **230** | **120** |

**MW-1C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 7/24/2008 | 10/22/2008 | 4/27/2009 | 7/17/2009 | 10/29/2009 | 5/6/2010 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **175** | **199** | **157** | **160** | **200** | **180** | **174** |
| | Ammonia | mg/L | **7.1** | **8.8** | **5** | **5.1** | **5.73** | **5.74** | **4.42** |
| | Nitrate+Nitrite | mg/L | <0.1U | <0.1U | <0.1U | **0.02J** | <0.02U | <0.1U | <0.1U |
| | Sulfate | mg/L | <5U | <5U | <5U | <0.9U | 4.2J | <5U | <5U |
| | Total Organic Carbon | mg/L | **7.6** | **7.8** | **9.4** | **3.3** | **6.5** | **4.7** | **6.3** |
| Metals | Arsenic | µg/L | **74** | **65.9** | **47.2** | **53.8** | **59.6** | **52.2** | **51.2** |
| | Iron | µg/L | **72,900** | **72,900** | **43,300J** | **52,600** | **56,200** | **48,200** | **47,600** |
| | Manganese | µg/L | **12,200** | **11,700J** | **7640J** | **11,100** | **11,600** | **9790** | **8400** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <0.6U | <1U | **0.5J** | <0.71U | <0.11U | **2.1** | <1.8U |
| | 1,2-Dichlorobenzene | µg/L | <1U | <1U | <1U | <1.4U | <1.4U | **6.2** | <1.8U |
| | 1,3-Dichlorobenzene | µg/L | <1U | **0.5J** | <1U | <1.1U | <0.13U | **4.5** | <1.8U |
| | 1,4-Dichlorobenzene | µg/L | <2U | **5** | **2J** | <1.3U | **1.6J** | **30** | **1.9J** |
| | 1,4-Dioxane | µg/L | **2J** | **11** | <10U | <0.59U | <0.59U | **13** | **3.2J** |
| | 2,4,5-Trichlorophenol | µg/L | <10U | <10U | <10U | <2.6U | <0.93U | <0.46U | <9.5U |
| | 2,4,6-Trichlorophenol | µg/L | <3U | <3U | <3U | <2.9U | <0.94U | <0.59U | <2.9U |
| | 2,4-Dichlorophenol | µg/L | <2U | <2U | <2U | <0.8U | <0.74U | <0.49U | <2.7U |
| | 2,4-Dimethylphenol | µg/L | <2U | <2U | <2U | <1.6U | <0.91U | **3.2** | <2.7U |
| | 2,4-Dinitrophenol | µg/L | <43U | <43U | <43U | <2U | <2.1U | <2.1U | <41U |
| | 2,4-Dinitrotoluene | µg/L | <5U | <5U | <5U | <1.2U | <0.42U | <0.43U | <5.5U |
| | 2,6-Dinitrotoluene | µg/L | <1U | <1U | <1U | <1.7U | <0.48U | <0.38U | <1.8U |
| | 2-Chloronaphthalene | µg/L | <1U | <1U | <1U | <1.4U | <0.079U | <0.44U | <1.8U |
| | 2-Chlorophenol | µg/L | <3U | <3U | <3U | <1U | <0.48U | <0.51U | <3.1U |
| | 2-Methylnaphthalene | µg/L | <10U | <10U | <10U | <1U | <0.077U | **2.1J** | <9.5U |
| | 2-Methylphenol | µg/L | <10U | **0.8J** | <10U | <2.4U | <0.22U | **3.5J** | <9.5U |
| | 2-Nitroaniline | µg/L | <10U | <10U | <10U | <1.4U | <0.47U | <0.4U | <9.5U |
| | 2-Nitrophenol | µg/L | <3U | <3U | <3U | <1.4U | <0.57U | <0.46U | <3.4U |
| | 3,3-Dichlorobenzidine | µg/L | <17U | **0.4J** | <17U | <1.5U | <0.35U | <0.38U | <16U |
| | 3-Nitroaniline | µg/L | <10U | <10U | <10U | <1.8U | <1.5U | <0.46U | <9.5U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <24U | <24U | <24U | <1.8U | <2.1U | <2.1U | <23U |
| | 4-Bromophenyl phenyl ether | µg/L | <1U | <1U | <1U | <1.7U | <0.85U | <0.43U | <1.7U |
| | 4-Chloro-3-Methylphenol | µg/L | <3U | **0.8J** | <3U | <1U | <0.56U | <0.43U | <2.8U |
| | 4-Chloroaniline | µg/L | <2U | <2U | <2U | <0.94U | <0.31U | <0.57U | <1.9U |
| | 4-Chlorophenyl phenyl ether | µg/L | <4U | <4U | <4U | <1.3U | <0.16U | <0.34U | <4.1U |
| | 4-Methylphenol | µg/L | <10U | **1J** | <10U | <0.55U | <0.55U | **3.9J** | <9.5U |
| | 4-Nitroaniline | µg/L | <10U | <10U | <10U | <2.7U | <0.43U | <0.24U | <9.5U |
| | 4-Nitrophenol | µg/L | <3U | <3U | <3U | <2.8U | <1.4U | <1.5U | <2.8U |
| | Acenaphthene | µg/L | **0.2J** | **0.2J** | <1U | <1.3U | <0.11U | <0.39U | <1.7U |
| | Acenaphthylene | µg/L | <3U | <3U | <3U | <1.1U | <0.044U | <0.37U | <3.3U |
| | Anthracene | µg/L | <1U | <1U | <1U | <1.4U | <0.053U | <0.27U | <1.7U |
| | Benz(a)anthracene | µg/L | <7U | **0.3J** | <7U | <1.5U | <0.06U | <0.35U | <7.4U |
| | Benzo(a)pyrene | µg/L | <2U | <2U | <2U | <1.5U | <0.086U | <0.45U | <2.5U |
| | Benzo(b)fluoranthene | µg/L | <10U | <10U | <10U | <2.8U | <0.059U | <0.33U | <9.5U |
| | Benzo(g,h,i)perylene | µg/L | <4U | <4U | <4U | <2.8U | <0.074U | <0.34U | <3.9U |
| | Benzo(k)fluoranthene | µg/L | <2U | <0.5U | <2U | <1.3U | <0.062U | <0.7U | <2.4U |
| | Benzoic acid | µg/L | <97U | <96U | <100U | <47U | <94U | <96U | <95U |
| | Benzyl alcohol | µg/L | <7U | <7U | <7U | <4.7U | <0.28U | <0.42U | <6.6U |
| | Bis(2-chloroethoxy) methane | µg/L | <5U | <5U | <5U | <1.1U | <0.35U | <0.34U | <5U |
| | Bis(2-chloroethyl)ether | µg/L | <5U | <5U | <5U | <1.6U | <0.17U | <0.38U | <5.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | <5U | <5U | <5U | <0.94U | <3.8U | <0.5U | <5.4U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <10U | <10U | <10U | <2.1U | <4.5U | <1.7U | <9.5U |
| | Butyl benzyl phthalate | µg/L | <10U | <10U | <10U | <1.5U | <1.6U | <0.4U | <9.5U |
| | Carbazole | µg/L | <10U | <10U | <10U | <0.084U | <0.084U | <0.29U | <9.5U |
| | Chrysene | µg/L | <2U | <0.7U | <2U | <1.6U | <0.26U | <0.32U | <2.4U |
| | Dibenz(a,h)anthracene | µg/L | <10U | <10U | <10U | <1.7U | <0.19U | <0.4U | <9.5U |
| | Dibenzofuran | µg/L | <10U | <10U | <10U | <1.5U | <1.5U | <0.49U | <9.5U |

**MW-1C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 7/24/2008 | 10/22/2008 | 4/27/2009 | 7/17/2009 | 10/29/2009 | 5/6/2010 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Diethyl phthalate | µg/L | <10U | **0.3J** | <10U | <1.6U | <0.1U | <9.6U | <9.5U |
| | Dimethyl phthalate | µg/L | <10U | <10U | <10U | <1.1U | <0.28U | <0.35U | <9.5U |
| | Di-n-butyl phthalate | µg/L | <10U | <0.3U | <10U | <1.4U | <0.28U | **0.91J** | <9.5U |
| | Di-n-octyl phthalate | µg/L | <10U | <10U | <3U | <1.7U | <0.23U | <0.45U | <9.5U |
| | Fluoranthene | µg/L | <2U | <2U | <2U | <1.9U | <0.092U | <0.38U | <2.1U |
| | Fluorene | µg/L | <1U | <1U | <1U | <1.7U | <0.07U | <0.35U | <1.8U |
| | Hexachlorobenzene | µg/L | <1U | <1U | <1U | <2.1U | <0.42U | <0.49U | <2.1U |
| | Hexachlorobutadiene | µg/L | <2U | <2U | <3U | <1.1U | <2.4U | <0.65U | <2.5U |
| | Hexachlorocyclopentadiene | µg/L | <10U | <10U | <10U | <1.8U | <2.4U | <0.57U | <9.5U |
| | Hexachloroethane | µg/L | <3U | <3U | <5U | <0.8U | <2.7U | <0.57U | <2.7U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4U | <4U | <4U | <3U | <0.14U | <0.45U | <4.5U |
| | Isophorone | µg/L | <2U | <2U | <2U | <1.1U | <0.3U | <0.41U | <2.1U |
| | Naphthalene | µg/L | **2** | **2** | <1U | <1.2U | <0.11U | **10** | <1.5U |
| | Nitrobenzene | µg/L | <2U | <2U | <2U | <1.9U | <0.51U | <0.28U | <1.9U |
| | N-nitrosodi-n-propylamine | µg/L | <10U | <10U | <10U | <0.94U | <0.43U | <0.52U | <4.7U |
| | N-Nitrosodiphenylamine | µg/L | <1U | <1U | <1U | <1.2U | <0.25U | <0.49U | <1.8U |
| | Pentachlorophenol | µg/L | <5U | <5U | <5U | <3.5U | <4.8U | <2.1U | <4.9U |
| | Phenanthrene | µg/L | <5U | <5U | <5U | <1.3U | <0.11U | <0.42U | <4.7U |
| | Phenol | µg/L | <2U | <2U | <2U | <2.4U | <0.42U | <0.38U | <2.4U |
| | Pyrene | µg/L | <1U | <1U | <1U | <1.8U | <0.064U | <0.33U | <1.8U |
| | Total SVOCS | µg/L | **4.2** | **23** | **2.5** | ND | **1.6** | **80** | **5.1** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | **0.53J** | <5U | <0.26U | <0.26U | **6.1** | <5U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U | <5U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <5U | <0.23U | <0.23U | <0.23U | <5U |
| | 1,1-Dichloroethane | µg/L | <5U | **3.9J** | **0.75J** | **0.77J** | **0.85J** | **33** | **0.58J** |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <5U | <0.29U | <0.29U | <0.29U | <5U |
| | 1,2-Dichlorobenzene | µg/L | <5U | <5U | <5U | <0.2U | <0.2U | **9.1** | <5U |
| | 1,2-Dichloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | **0.58J** | <5U |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <5U | <0.14U | <0.32U | **0.54J** | <5U |
| | 1,3-Dichlorobenzene | µg/L | <5U | <5U | <5U | <0.16U | <0.36U | **6.6** | <5U |
| | 1,4-Dichlorobenzene | µg/L | **3.6J** | **4J** | **2.2J** | **1.9J** | **2.6J** | **46** | **2.6J** |
| | 2-Butanone | µg/L | <5U | **1.4J** | <5U | <1.3U | <1.3U | **2.4J** | <5U |
| | 2-Hexanone | µg/L | <5U | <5U | <5U | <1.2U | <1.2U | <1.2U | <5U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <5U | <0.91U | <0.91U | <0.91U | <5U |
| | Acetone | µg/L | <10U | **5.2J** | <10U | **3.1J** | <1.3U | <1.3U | **3.9J** |
| | Benzene | µg/L | **1.4J** | **1.3J** | **0.51J** | **0.56J** | **0.77J** | **9.6** | **0.74J** |
| | Dichlorobromomethane | µg/L | <5U | <5U | <5U | <0.39U | <0.39U | <0.39U | <5U |
| | Bromoform | µg/L | <5U | <5U | <5U | <0.26U | <0.26U | <0.26U | <5U |
| | Bromomethane | µg/L | <5U | <5U | <5U | <0.28U | <0.28U | <0.28U | <5U |
| | Carbon Disulfide | µg/L | <5U | <5U | <5U | <0.19U | <0.19U | <0.19U | <5U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <5U | <0.27U | <0.27U | <0.27U | <5U |
| | Chlorobenzene | µg/L | **12** | **8** | **3.5J** | **3.4J** | **5.2** | **31** | **5.2** |
| | Chlorodibromomethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U | <5U |
| | Chloroethane | µg/L | **1.2J** | **0.54J** | <5U | **1.1J** | <0.32U | **21** | **0.94J** |
| | Chloroform | µg/L | <5U | <5U | <5U | <0.34U | <0.34U | <0.34U | <5U |
| | Chloromethane | µg/L | <5U | <5U | <5U | <0.35U | <0.35U | <0.35U | <5U |
| | cis-1,2-Dichloroethene | µg/L | <0.77U | <1U | <1U | **0.28J** | <0.38U | **1.8** | <1U |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U | <5U |
| | Methylene Chloride | µg/L | <5U | <5U | <5U | <0.44U | <0.44U | <0.44U | <5U |
| | Ethylbenzene | µg/L | <5U | **1.2J** | <5U | <0.18U | <0.18U | **46** | <5U |
| | Styrene | µg/L | <5U | <5U | <5U | <0.18U | <0.18U | <0.18U | <5U |
| | Trichloroethene | µg/L | <5U | <5U | <5U | <0.18U | <0.46U | <0.46U | <5U |
| | Tetrachloroethene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U | <5U |
| | Toluene | µg/L | **0.56J** | **30J** | <5U | <0.51U | <0.51U | **610** | <5U |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.13U | <0.42U | **0.47J** | <1U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.37U | <0.37U | <0.37U | <5U |
| | Vinyl Chloride | µg/L | <5U | <5U | <5U | <0.24U | <0.24U | **4.3J** | <5U |
| | Total Xylenes | µg/L | <5U | **3.6J** | <5U | <0.66U | <0.66U | **160** | <5U |
| | Total VOCS | µg/L | **19** | **60** | **7** | **12** | **9.5** | **990** | **14** |

**MW-1C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 7/22/2010 | 10/28/2010 | 4/17/2013 | 10/21/2013 | 4/21/2014 | 10/22/2014 | 4/22/2015 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **188** | **88.1J** | **184** | **105** | - | **172** | **37.3J** |
| | Ammonia | mg/L | **9.18J** | **2.3J** | **11.3** | **11.8J** | - | **8.1J** | **27.8** |
| | Nitrate+Nitrite | mg/L | <0.1UJ | <0.1U | **0.066** | <0.02UJ | - | <0.02UJ | **0.73J** |
| | Sulfate | mg/L | <5U | <5U | <1.5U | <5U | - | <1.5U | **190** |
| | Total Organic Carbon | mg/L | **4.3** | **6.7** | **6.3** | **6.1J** | - | **5.4J** | **10.6J** |
| Metals | Arsenic | µg/L | **57.3** | **41.4** | **61** | **73** | - | **73** | **44** |
| | Iron | µg/L | **63,700** | **18,300** | **66,500** | **62,300** | - | **64,900** | **25,900J** |
| | Manganese | µg/L | **9860** | **3300J** | **9600** | **9200** | - | **13,700** | **9200** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **0.68J** | <1.8U | <0.42U | - | **1.3J** | - | **0.94J** |
| | 1,2-Dichlorobenzene | µg/L | <1.8U | <1.8U | **0.57J** | - | **2.7** | - | **0.77J** |
| | 1,3-Dichlorobenzene | µg/L | <1.8U | <1.8U | **0.46J** | - | **2.6** | - | **0.79J** |
| | 1,4-Dichlorobenzene | µg/L | **2.6J** | <4.2U | **4.3** | - | **14** | - | **3.6J** |
| | 1,4-Dioxane | µg/L | **4.7J** | <9.5U | <1.1U | - | **6.8J** | - | **2.7J** |
| | 2,4,5-Trichlorophenol | µg/L | <9.4U | <9.5U | <0.46U | - | <0.45U | - | <0.44U |
| | 2,4,6-Trichlorophenol | µg/L | <2.9U | <2.9U | <0.58U | - | <0.57U | - | <0.57U |
| | 2,4-Dichlorophenol | µg/L | <2.6U | <2.7U | <0.49U | - | <0.47U | - | <0.47U |
| | 2,4-Dimethylphenol | µg/L | <2.6U | <2.7U | <0.48U | - | <0.47U | - | <0.46U |
| | 2,4-Dinitrophenol | µg/L | <41U | <41U | <2.1U | - | <2.1U | - | <2.1U |
| | 2,4-Dinitrotoluene | µg/L | <5.5U | <5.5U | <0.43U | - | <0.42U | - | <0.41U |
| | 2,6-Dinitrotoluene | µg/L | <1.8U | <1.8U | <0.38U | - | <0.37U | - | <0.37U |
| | 2-Chloronaphthalene | µg/L | <1.8U | <1.8U | <0.44U | - | <0.43U | - | <0.43U |
| | 2-Chlorophenol | µg/L | <3.1U | <3.1U | <0.51U | - | <0.49U | - | <0.49U |
| | 2-Methylnaphthalene | µg/L | <9.4U | <9.5U | <0.57U | - | <0.56U | - | <0.56U |
| | 2-Methylphenol | µg/L | <9.4U | <9.5U | <0.38U | - | <0.37U | - | <0.37U |
| | 2-Nitroaniline | µg/L | <9.4U | <9.5U | <0.4U | - | <0.39U | - | <0.39UJ |
| | 2-Nitrophenol | µg/L | <3.4U | <3.4U | <0.46U | - | <0.45U | - | <0.44U |
| | 3,3-Dichlorobenzidine | µg/L | <16U | <16U | <0.38U | - | <0.37U | - | <0.37UJ |
| | 3-Nitroaniline | µg/L | <9.4U | <9.5U | <0.46U | - | <0.45UJ | - | <0.44U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <23U | <23U | <2.1U | - | <2U | - | <2U |
| | 4-Bromophenyl phenyl ether | µg/L | <1.7U | <1.7U | <0.43U | - | <0.42U | - | <0.42U |
| | 4-Chloro-3-Methylphenol | µg/L | <2.8U | <2.8U | <0.43U | - | <0.42U | - | <0.42U |
| | 4-Chloroaniline | µg/L | <1.9U | <1.9U | <0.56U | - | <0.55UJ | - | <0.55UJ |
| | 4-Chlorophenyl phenyl ether | µg/L | <4.1U | <4.1U | <0.33U | - | <0.33U | - | <0.32U |
| | 4-Methylphenol | µg/L | <9.4U | <9.5U | <0.34U | - | <0.33U | - | <0.33U |
| | 4-Nitroaniline | µg/L | <9.4U | <9.5U | <0.24U | - | <0.23U | - | <0.23UJ |
| | 4-Nitrophenol | µg/L | <2.8U | <2.8U | <1.5U | - | <1.4U | - | <1.4U |
| | Acenaphthene | µg/L | <1.7U | <1.7U | <0.39U | - | <0.38U | - | <0.38U |
| | Acenaphthylene | µg/L | <3.3U | <3.3U | <0.36U | - | <0.35U | - | <0.35U |
| | Anthracene | µg/L | <1.7U | <1.7U | <0.27U | - | <0.26U | - | <0.26U |
| | Benz(a)anthracene | µg/L | <7.4U | <7.4U | <0.34U | - | <0.33U | - | <0.33U |
| | Benzo(a)pyrene | µg/L | <2.5U | <2.5U | <0.45U | - | <0.44U | - | <0.44UJ |
| | Benzo(b)fluoranthene | µg/L | <9.4U | <9.5U | <0.33U | - | <0.32U | - | <0.32UJ |
| | Benzo(g,h,i)perylene | µg/L | <3.9U | <3.9U | <0.33U | - | <0.33UJ | - | <0.32UJ |
| | Benzo(k)fluoranthene | µg/L | <2.4U | <2.4U | <0.7U | - | <0.68U | - | <0.68UJ |
| | Benzoic acid | µg/L | <94U | <95U | <96U | - | <93U | - | <93UJ |
| | Benzyl alcohol | µg/L | <6.6U | <6.6U | <0.42U | - | <2.2U | - | <6.5U |
| | Bis(2-chloroethoxy) methane | µg/L | <5U | <5U | <0.33U | - | <0.33U | - | <0.32U |
| | Bis(2-chloroethyl)ether | µg/L | <5.4U | <5.4U | <0.38U | - | <0.37U | - | <0.37U |
| | Bis(2-chloroisopropyl) ether | µg/L | <5.4U | <5.4U | <0.5U | - | <0.48U | - | <0.48U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <9.4U | <9.5UJ | <1.7U | - | <1.7U | - | <1.7UJ |
| | Butyl benzyl phthalate | µg/L | <9.4U | <9.5U | <0.4U | - | 0.47J | - | <9.3U |
| | Carbazole | µg/L | <9.4U | <9.5U | <0.29U | - | <0.28U | - | <0.28U |
| | Chrysene | µg/L | <2.4U | <2.4U | <0.32U | - | <0.31U | - | <0.31UJ |
| | Dibenz(a,h)anthracene | µg/L | <9.4U | <9.5U | <0.4U | - | <0.39U | - | <0.39UJ |
| | Dibenzofuran | µg/L | <9.4U | <9.5U | <0.49U | - | **<0.47U** | - | <0.47U |

**MW-1C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 7/22/2010 | 10/28/2010 | 4/17/2013 | 10/21/2013 | 4/21/2014 | 10/22/2014 | 4/22/2015 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Diethyl phthalate | µg/L | <9.4U | <9.5U | <0.21U | - | **0.25J** | - | <0.2U |
| | Dimethyl phthalate | µg/L | <9.4U | <9.5U | <0.34U | - | <0.33U | - | <0.33U |
| | Di-n-butyl phthalate | µg/L | <0.39U | <9.5U | <0.3U | - | <0.29U | - | <0.29U |
| | Di-n-octyl phthalate | µg/L | <9.4U | <9.5U | <0.45U | - | <0.44U | - | <0.44UJ |
| | Fluoranthene | µg/L | <2.1U | <2.1U | <0.38U | - | <0.37U | - | <0.37U |
| | Fluorene | µg/L | <1.8U | <1.8U | <0.34U | - | <0.33U | - | <0.33U |
| | Hexachlorobenzene | µg/L | <2.1U | <2.1U | <0.49U | - | <0.47U | - | <0.47U |
| | Hexachlorobutadiene | µg/L | <2.4U | <2.5U | <0.65U | - | <0.63U | - | <0.63U |
| | Hexachlorocyclopentadiene | µg/L | <9.4U | <9.5U | <0.56U | - | <0.55U | - | <0.55U |
| | Hexachloroethane | µg/L | <2.7U | <2.7U | <0.56U | - | <0.55U | - | <0.55U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4.5U | <4.5U | <0.45U | - | <0.44U | - | <0.44UJ |
| | Isophorone | µg/L | <2.1U | <2.1U | <0.41U | - | <0.4U | - | <0.4U |
| | Naphthalene | µg/L | <1.5U | <1.5U | **0.95J** | - | **2.5** | - | <0.7U |
| | Nitrobenzene | µg/L | <1.9U | <1.9U | <0.28U | - | <0.27U | - | <0.27U |
| | N-nitrosodi-n-propylamine | µg/L | <4.7U | <4.7U | <0.52U | - | <0.5U | - | <0.5U |
| | N-Nitrosodiphenylamine | µg/L | <1.8U | <1.8U | <0.49U | - | <0.47U | - | <0.47U |
| | Pentachlorophenol | µg/L | <4.8U | <4.9U | <2.1U | - | <2U | - | <2U |
| | Phenanthrene | µg/L | <4.7U | <4.7U | <0.42U | - | <0.41U | - | <0.41U |
| | Phenol | µg/L | <2.4U | <2.4U | <0.37U | - | <0.36U | - | <0.36U |
| | Pyrene | µg/L | <1.8U | <1.8U | <0.33U | - | <0.32U | - | <0.32U |
| | Total SVOCS | µg/L | **8** | ND | **6.3** | - | **31** | - | **8.8** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | <5U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82UJ |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **0.77J** | <5U | **2.7J** | **1.6J** | **20** | **4.1J** | **3.8J** |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <5U | <5U | <0.79U | <0.79U | **3.9J** | <0.79U | **1.1J** |
| | 1,2-Dichloroethane | µg/L | <5U | <5U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <5U | <5U | <0.78U | <0.78U | **3.8J** | <0.78U | **1.1J** |
| | 1,4-Dichlorobenzene | µg/L | **4.4J** | **0.96J** | **5.3** | **3.4J** | **20** | **4.8J** | **4.8J** |
| | 2-Butanone | µg/L | <5U | <5U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <5U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <10U | <10U | <3U | <3U | **12** | <3U | **3.9J** |
| | Benzene | µg/L | **1.1J** | <5U | **1.2J** | **0.75J** | **2.3J** | **1.1J** | <0.41U |
| | Dichlorobromomethane | µg/L | <5U | <5U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <5U | <5U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26UJ |
| | Bromomethane | µg/L | <5U | <5U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <5U | <5U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27UJ |
| | Chlorobenzene | µg/L | **7.7** | **0.77J** | **7.6** | **5** | **13** | **7.7** | **2.4J** |
| | Chlorodibromomethane | µg/L | <5U | <5U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32UJ |
| | Chloroethane | µg/L | **0.81J** | <5U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <5U | <5U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <5U | <5U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <1UJ | <1U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <5U | <5U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <5U | <5U | **0.88J** | <0.74U | **7.1** | <0.74U | <0.74U |
| | Styrene | µg/L | <5U | <5U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <5U | <5U | <0.46U | <0.46U | <0.46U | <0.46U | <5U |
| | Tetrachloroethene | µg/L | <5U | <5U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | **2.5J** | <5U | **3.4J** | <0.51U | **19** | <0.51U | **0.56J** |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <5U | <5U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <5U | <5U | **5.2** | **1.5J** | **24** | **1.3J** | <0.66U |
| | Total VOCS | µg/L | **18** | **1.8** | **27** | **13** | **130** | **19** | **18** |

**MW-1C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 7/27/2015 | 10/19/2015 | 5/16/2016 | 7/18/2016 | 10/26/2016 | 4/25/2017 | 7/31/2017 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **37.1** | **85.5J** | **12.5** | **7.6** | **27** | <4U | **12.9J+** |
| | Ammonia | mg/L | **6.7J** | **4.9** | **0.81** | **0.26** | **0.46** | **0.047J** | **0.064** |
| | Nitrate+Nitrite | mg/L | **8.5** | **0.9** | **7.3** | **13.7** | **4.5** | **2** | **6.1J+** |
| | Sulfate | mg/L | **120** | **61** | **96.7** | **105** | **80.5** | **15.3** | **117** |
| | Total Organic Carbon | mg/L | **2.6** | **3J** | **3.4** | **2** | **1.9** | **1** | **2.4** |
| Metals | Arsenic | µg/L | **21** | **22** | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **7700** | **5700** | **1300** | **140J** | **360** | **120J** | **80J** |
| | Manganese | µg/L | **28,200J** | **20,900** | **26,400** | **35,800** | **24,200** | **4300** | **28,600** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | - | <0.41U | - | - | <0.44U | - |
| | 1,2-Dichlorobenzene | µg/L | - | - | <0.38U | - | - | <0.4U | - |
| | 1,3-Dichlorobenzene | µg/L | - | - | <0.45U | - | - | <0.48U | - |
| | 1,4-Dichlorobenzene | µg/L | - | - | **0.66J** | - | - | <0.46U | - |
| | 1,4-Dioxane | µg/L | - | - | **1.3J** | - | - | <1.1U | - |
| | 2,4,5-Trichlorophenol | µg/L | - | - | <0.45U | - | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | - | - | <0.57U | - | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | - | - | <0.48U | - | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | - | - | <0.47U | - | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | - | - | <2.1U | - | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | - | - | <0.42U | - | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | - | - | <0.38U | - | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | - | - | <0.43U | - | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | - | - | <0.5U | - | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | - | - | <0.56U | - | - | <0.6U | - |
| | 2-Methylphenol | µg/L | - | - | <0.38U | - | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | - | - | <0.39U | - | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | - | - | <0.45U | - | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | - | - | <0.38U | - | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | - | - | <0.45U | - | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | - | <2.1U | - | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | - | <0.42U | - | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | - | <0.42U | - | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | - | - | <0.55U | - | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | - | <0.33U | - | - | <0.35U | - |
| | 4-Methylphenol | µg/L | - | - | <0.34U | - | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | - | - | <0.23U | - | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | - | - | <1.4U | - | - | <1.5U | - |
| | Acenaphthene | µg/L | - | - | <0.38U | - | - | <0.41U | - |
| | Acenaphthylene | µg/L | - | - | <0.36U | - | - | <0.38U | - |
| | Anthracene | µg/L | - | - | <0.26U | - | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | - | - | <0.34U | - | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | - | - | <0.44U | - | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | - | - | <0.32U | - | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | - | - | <0.33U | - | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | - | - | <0.68U | - | - | <0.73U | - |
| | Benzoic acid | µg/L | - | - | - | - | - | <100U | - |
| | Benzyl alcohol | µg/L | - | - | <6.6U | - | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | - | <0.33U | - | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | - | - | <0.38U | - | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | - | <0.49U | - | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | - | <1.7U | - | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | - | - | <0.39U | - | - | <0.42U | - |
| | Carbazole | µg/L | - | - | <0.28U | - | - | <0.3U | - |
| | Chrysene | µg/L | - | - | <0.31U | - | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | - | - | <0.39U | - | - | <0.42U | - |
| | Dibenzofuran | µg/L | - | - | <0.48U | - | - | <0.51U | - |

**MW-1C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 7/27/2015 | 10/19/2015 | 5/16/2016 | 7/18/2016 | 10/26/2016 | 4/25/2017 | 7/31/2017 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Diethyl phthalate | µg/L | - | - | <0.21U | - | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | - | - | <0.34U | - | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | - | - | <0.29U | - | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | - | - | <0.44U | - | - | <0.47U | - |
| | Fluoranthene | µg/L | - | - | <0.38U | - | - | <0.4U | - |
| | Fluorene | µg/L | - | - | <0.34U | - | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | - | - | <0.48U | - | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | - | - | <0.64U | - | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | - | - | <0.55U | - | - | <0.59U | - |
| | Hexachloroethane | µg/L | - | - | <0.55U | - | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | - | <0.44U | - | - | <0.47U | - |
| | Isophorone | µg/L | - | - | <0.4U | - | - | <0.43U | - |
| | Naphthalene | µg/L | - | - | <0.71U | - | - | <0.76U | - |
| | Nitrobenzene | µg/L | - | - | <0.27U | - | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | - | - | <0.51U | - | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | - | - | <0.48U | - | - | <0.51U | - |
| | Pentachlorophenol | µg/L | - | - | <2.1U | - | - | <2.2U | - |
| | Phenanthrene | µg/L | - | - | <0.41U | - | - | <0.44U | - |
| | Phenol | µg/L | - | - | <0.37U | - | - | <0.39U | - |
| | Pyrene | µg/L | - | - | <0.32U | - | - | <0.34U | - |
| | Total SVOCS | µg/L | - | - | **2** | - | - | ND | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82UJ | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **1.6J** | **0.84J** | <0.38U | **0.77J** | **1.3J** | <0.38U | **0.39J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29UJ | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | <0.79U | <0.79U | <0.79UJ | <0.79U | <0.79U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72UJ | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.78U | <0.78U | <0.78U | <0.78U | **1.7J** | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | **2.3J** | **2.1J** | **0.86J** | **1.3J** | **3.5J** | <0.84U | <0.84U |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <5U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | **3.3J** | **6J** |
| | Benzene | µg/L | <0.41U | <0.41UJ | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69UJ | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **1.2J** | **1J** | <0.75U | <0.75U | **1J** | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32UJ | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74UJ | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46UJ | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36UJ | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51UJ | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66UJ | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **5.1** | **4** | **0.86** | **2.1** | **7.5** | **3.3** | **6.4** |

**MW-1C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/17/2017 | 5/8/2018 | 7/19/2018 | 10/15/2018 | 4/23/2019 | 7/22/2019 | 10/7/2019 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **6.1** | **26.8J+** | **21.4** | **58.9** | **36.8** | **109** | **94.8** |
| | Ammonia | mg/L | **0.025J** | **0.027J** | **0.021J** | **0.16** | **0.3** | **0.65** | **0.82J+** |
| | Nitrate+Nitrite | mg/L | **4** | **1.6** | **0.41J-** | <0.02U | **0.086J-** | **0.06J-** | **0.036U** |
| | Sulfate | mg/L | **43.9** | **16.4** | **44.2** | **17** | **10.2** | **40.4** | **21.6** |
| | Total Organic Carbon | mg/L | **1.5** | **2.2** | **1.9** | **6.9** | **6J** | **5.2** | **3.7** |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | **30** | **36** | **84** | **58** |
| | Iron | µg/L | **170** | **210** | **440** | **8400** | **7700** | **31,100** | **16,700** |
| | Manganese | µg/L | **9600** | **3000** | **8400** | **1500** | **6,900** | **22,800** | **16,800** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | <0.44U | - | - | <0.44U | - | - |
| | 1,2-Dichlorobenzene | µg/L | - | <0.4U | - | - | <0.4U | - | - |
| | 1,3-Dichlorobenzene | µg/L | - | <0.48U | - | - | <0.48U | - | - |
| | 1,4-Dichlorobenzene | µg/L | - | <0.46U | - | - | <0.46U | - | - |
| | 1,4-Dioxane | µg/L | - | <1.1U | - | - | <1.1U | - | - |
| | 2,4,5-Trichlorophenol | µg/L | - | <0.48U | - | - | <0.48U | - | - |
| | 2,4,6-Trichlorophenol | µg/L | - | <0.61U | - | - | <0.61U | - | - |
| | 2,4-Dichlorophenol | µg/L | - | <0.51U | - | - | <0.51U | - | - |
| | 2,4-Dimethylphenol | µg/L | - | <0.5U | - | - | <0.5U | - | - |
| | 2,4-Dinitrophenol | µg/L | - | <2.2U | - | - | <2.2U | - | - |
| | 2,4-Dinitrotoluene | µg/L | - | <0.45U | - | - | <0.45U | - | - |
| | 2,6-Dinitrotoluene | µg/L | - | <0.4U | - | - | <0.4U | - | - |
| | 2-Chloronaphthalene | µg/L | - | <0.46U | - | - | <0.46U | - | - |
| | 2-Chlorophenol | µg/L | - | <0.53U | - | - | <0.53U | - | - |
| | 2-Methylnaphthalene | µg/L | - | <0.6U | - | - | <0.6U | - | - |
| | 2-Methylphenol | µg/L | - | <0.4U | - | - | <0.4U | - | - |
| | 2-Nitroaniline | µg/L | - | <0.42U | - | - | <0.42U | - | - |
| | 2-Nitrophenol | µg/L | - | <0.48U | - | - | <0.48U | - | - |
| | 3,3-Dichlorobenzidine | µg/L | - | <0.4U | - | - | <0.4U | - | - |
| | 3-Nitroaniline | µg/L | - | <0.48U | - | - | <0.48U | - | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | <2.2U | - | - | <2.2U | - | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | <0.45U | - | - | <0.45U | - | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | <0.45U | - | - | <0.45U | - | - |
| | 4-Chloroaniline | µg/L | - | <0.59U | - | - | <0.59U | - | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | <0.35U | - | - | <0.35U | - | - |
| | 4-Methylphenol | µg/L | - | <0.36U | - | - | 0.57J | - | - |
| | 4-Nitroaniline | µg/L | - | <0.25U | - | - | <0.25U | - | - |
| | 4-Nitrophenol | µg/L | - | <1.5U | - | - | <1.5U | - | - |
| | Acenaphthene | µg/L | - | <0.41U | - | - | <0.41U | - | - |
| | Acenaphthylene | µg/L | - | <0.38U | - | - | <0.38U | - | - |
| | Anthracene | µg/L | - | <0.28U | - | - | <0.28U | - | - |
| | Benz(a)anthracene | µg/L | - | <0.36U | - | - | <0.36U | - | - |
| | Benzo(a)pyrene | µg/L | - | <0.47U | - | - | <0.47U | - | - |
| | Benzo(b)fluoranthene | µg/L | - | <0.34U | - | - | <0.34U | - | - |
| | Benzo(g,h,i)perylene | µg/L | - | <0.35U | - | - | <0.35U | - | - |
| | Benzo(k)fluoranthene | µg/L | - | <0.73U | - | - | <0.73U | - | - |
| | Benzoic acid | µg/L | - | <100U | - | - | <100U | - | - |
| | Benzyl alcohol | µg/L | - | <0.44U | - | - | <0.44U | - | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | <0.35U | - | - | <0.35U | - | - |
| | Bis(2-chloroethyl)ether | µg/L | - | <0.4U | - | - | <0.4U | - | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | <0.52U | - | - | <0.52U | - | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | <1.8U | - | - | <1.8U | - | - |
| | Butyl benzyl phthalate | µg/L | - | <0.42U | - | - | <0.46U | - | - |
| | Carbazole | µg/L | - | <0.3U | - | - | <0.3U | - | - |
| | Chrysene | µg/L | - | <0.33U | - | - | <0.33U | - | - |
| | Dibenz(a,h)anthracene | µg/L | - | <0.42U | - | - | <0.42U | - | - |
| | Dibenzofuran | µg/L | - | <0.51U | - | - | <0.51U | - | - |

**MW-1C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/17/2017 | 5/8/2018 | 7/19/2018 | 10/15/2018 | 4/23/2019 | 7/22/2019 | 10/7/2019 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Diethyl phthalate | µg/L | - | <0.22U | - | - | <0.22U | - | - |
| | Dimethyl phthalate | µg/L | - | <0.36U | - | - | <0.36U | - | - |
| | Di-n-butyl phthalate | µg/L | - | <0.31U | - | - | <0.31U | - | - |
| | Di-n-octyl phthalate | µg/L | - | <0.47U | - | - | <0.47U | - | - |
| | Fluoranthene | µg/L | - | <0.4U | - | - | <0.4U | - | - |
| | Fluorene | µg/L | - | <0.36U | - | - | <0.36U | - | - |
| | Hexachlorobenzene | µg/L | - | <0.51U | - | - | <0.51U | - | - |
| | Hexachlorobutadiene | µg/L | - | <0.68U | - | - | <0.68U | - | - |
| | Hexachlorocyclopentadiene | µg/L | - | <0.59U | - | - | <0.59U | - | - |
| | Hexachloroethane | µg/L | - | <0.59U | - | - | <0.59U | - | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | <0.47U | - | - | <0.47U | - | - |
| | Isophorone | µg/L | - | <0.43U | - | - | <0.43U | - | - |
| | Naphthalene | µg/L | - | <0.76U | - | - | <0.76U | - | - |
| | Nitrobenzene | µg/L | - | <0.29U | - | - | <0.29U | - | - |
| | N-nitrosodi-n-propylamine | µg/L | - | <0.54U | - | - | <0.54U | - | - |
| | N-Nitrosodiphenylamine | µg/L | - | <0.51U | - | - | <0.51U | - | - |
| | Pentachlorophenol | µg/L | - | <2.2U | - | - | <2.2U | - | - |
| | Phenanthrene | µg/L | - | <0.44U | - | - | <0.44U | - | - |
| | Phenol | µg/L | - | <0.39U | - | - | 1.3J | - | - |
| | Pyrene | µg/L | - | <0.34U | - | - | <0.34U | - | - |
| | Total SVOCS | µg/L | - | ND | - | - | **2.4** | - | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | <0.79U | <0.79U | <0.79U | <0.79U | <0.79U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.78U | <0.78U | <0.78U | <0.78U | <0.78U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <0.84U | <0.84U | <0.84U | <0.84U | <0.84U | <0.84U | <0.84U |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2UJ | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1UJ | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | **6.6J** | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35UJ |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.49U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9UJ |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9UJ |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | ND | ND | **6.6** | ND | ND | ND | ND |

**MW-1C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2020 | 7/7/2020 | 10/20/2020 | 4/27/2021 | 7/19/2021 | 12/22/2021 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **62.5J-** | **128** | **118** | **138** | **129** | **149** |
| | Ammonia | mg/L | **0.85** | **1.7** | **3.1** | **3.1** | **4.6** | **5.8** |
| | Nitrate+Nitrite | mg/L | **0.044J** | **0.04J** | **0.12** | **0.02J** | **0.082** | <0.02U |
| | Sulfate | mg/L | <1.5U | **2.1J** | **16.9J-** | **13.1** | **13.8** | **8.1J+** |
| | Total Organic Carbon | mg/L | **64.3** | **26.6J+** | **6.1** | **24.3** | **16.3** | **14.1** |
| Metals | Arsenic | µg/L | **90J** | **120** | **140J** | **98** | **130** | **130** |
| | Iron | µg/L | **25,500J** | **48,800** | **43,000** | **39,700** | **46,400** | **57,000** |
| | Manganese | µg/L | **16,000** | **25,900** | **22,300** | **18,600** | **19,200** | **21,900** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <0.44U | - | - | <0.44UJ | - | - |
| | 1,2-Dichlorobenzene | µg/L | <0.4U | - | - | <0.4UJ | - | - |
| | 1,3-Dichlorobenzene | µg/L | <0.48U | - | - | <0.48UJ | - | - |
| | 1,4-Dichlorobenzene | µg/L | <0.46U | - | - | **1.3J** | - | - |
| | 1,4-Dioxane | µg/L | <1.1U | - | - | **2.8J** | - | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | - | <0.48UJ | - | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | - | <0.61UJ | - | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | - | <0.51U | - | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | - | <0.5U | - | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | - | <2.2U | - | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | - | <0.45U | - | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | - | <0.4U | - | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | - | <0.46UJ | - | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | - | <0.53UJ | - | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | - | <0.6U | - | - |
| | 2-Methylphenol | µg/L | <0.4U | - | - | <0.4U | - | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | - | <0.42U | - | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | - | <0.48U | - | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.40U | - | - | <0.4U | - | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | - | <0.48UJ | - | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | - | <2.2U | - | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | - | <0.45UJ | - | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | - | <0.45UJ | - | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | - | <0.59UJ | - | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35UJ | - | - | <0.35UJ | - | - |
| | 4-Methylphenol | µg/L | **81J** | - | - | **4.7J** | - | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | - | <0.25UJ | - | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | - | <1.5U | - | - |
| | Acenaphthene | µg/L | <0.41U | - | - | <0.41UJ | - | - |
| | Acenaphthylene | µg/L | <0.38U | - | - | <0.38UJ | - | - |
| | Anthracene | µg/L | <0.28UJ | - | - | <0.28UJ | - | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | - | <0.36U | - | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | - | <0.47U | - | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | - | <0.34U | - | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | - | <0.35U | - | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | - | <0.73UJ | - | - |
| | Benzoic acid | µg/L | <100U | - | - | <100U | - | - |
| | Benzyl alcohol | µg/L | <0.44U | - | - | <0.44UJ | - | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | - | <0.35U | - | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.40U | - | - | <0.4U | - | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | - | <0.52U | - | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | - | <1.8U | - | - |
| | Butyl benzyl phthalate | µg/L | <0.42U | - | - | <10UJ | - | - |
| | Carbazole | µg/L | <0.3U | - | - | <0.3U | - | - |
| | Chrysene | µg/L | <0.33U | - | - | <0.33U | - | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | - | <0.42U | - | - |
| | Dibenzofuran | µg/L | <0.51U | - | - | <0.51UJ | - | - |

**MW-1C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2020 | 7/7/2020 | 10/20/2020 | 4/27/2021 | 7/19/2021 | 12/22/2021 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Diethyl phthalate | µg/L | <0.22U | - | - | <0.22U | - | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | - | <0.36U | - | - |
| | Di-n-butyl phthalate | µg/L | <0.31UJ | - | - | **0.53J** | - | - |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | - | <0.47U | - | - |
| | Fluoranthene | µg/L | <0.40U | - | - | <0.4UJ | - | - |
| | Fluorene | µg/L | <0.36U | - | - | <0.36UJ | - | - |
| | Hexachlorobenzene | µg/L | <0.51U | - | - | <0.51UJ | - | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | - | <0.68UJ | - | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | - | <0.59UJ | - | - |
| | Hexachloroethane | µg/L | <0.59U | - | - | <0.59U | - | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | - | <0.47U | - | - |
| | Isophorone | µg/L | <0.43U | - | - | <0.43U | - | - |
| | Naphthalene | µg/L | <0.76U | - | - | <0.76U | - | - |
| | Nitrobenzene | µg/L | <0.29U | - | - | <0.29U | - | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | - | <0.54UJ | - | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | - | <0.51U | - | - |
| | Pentachlorophenol | µg/L | <2.2U | - | - | <2.2UJ | - | - |
| | Phenanthrene | µg/L | <0.44U | - | - | <0.44UJ | - | - |
| | Phenol | µg/L | **13** | - | - | **1.1J** | - | - |
| | Pyrene | µg/L | <0.34UJ | - | - | <0.34UJ | - | - |
| | Total SVOCS | µg/L | **94** | - | - | **11** | - | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | <0.38U | **0.84J** | **0.4J** | **4.7J** | **0.39J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | <0.79U | <0.79U | <0.79U | **1.4J** | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.84U | <0.78U | <0.84U | <0.78U | **2.4J** | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <0.78U | **0.92J** | **2.6J** | **2.7J** | **7.2** | **2.2J** |
| | 2-Butanone | µg/L | <1.3U | **6.7** | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | **25J+** | **21** | <3.0U | **19** | **13J** | <10U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | **1.1J** | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | <0.75U | **2.6J** | **1.5J** | **11J** | **1.8J** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | **26J** | **190J** | <0.51U | **34** | **4J** | **43J** |
| | trans-1,2-Dichloroethene | µg/L | <0.90U | <0.90U | <0.90U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **51** | **220** | **6.1** | **58** | **45** | **48** |

**MW-1C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/20/2022 | 7/26/2022 | 10/26/2022 | 4/25/2023 | 8/1/2023 | 10/31/2023 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **60J-** | **72.9J-** | **87.2** | **82.5** | **96.8** | **125** |
| | Ammonia | mg/L | **2.7** | **4.9J-** | **4** | **3.6J+** | **5.1** | **3.3J+** |
| | Nitrate+Nitrite | mg/L | **0.13** | **0.41J-** | <0.02UJ | **0.055J-** | <0.02U | **0.05J** |
| | Sulfate | mg/L | **10.9** | **7.4J-** | **11.1** | <1.5U | **1.7J** | <1.5U |
| | Total Organic Carbon | mg/L | **33.9** | **8.1J-** | **5.2** | **10.5** | **7.6** | **7.5** |
| Metals | Arsenic | µg/L | **63** | **81** | **88** | **71** | **79** | **82** |
| | Iron | µg/L | **33,800** | **52,600** | **43,600** | **37,000** | **41,200** | **36,800** |
| | Manganese | µg/L | **12,200** | **18,800** | **15,700** | **12,900** | **14,600** | **12,800** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <0.44U | - | - | <0.44U | - | - |
| | 1,2-Dichlorobenzene | µg/L | <0.4U | - | - | <0.4U | - | - |
| | 1,3-Dichlorobenzene | µg/L | <0.48U | - | - | <0.48U | - | - |
| | 1,4-Dichlorobenzene | µg/L | **1.2J** | - | - | <0.46U | - | - |
| | 1,4-Dioxane | µg/L | **4.1J** | - | - | **8J** | - | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | - | <0.48U | - | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | - | <0.61U | - | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | - | <0.51U | - | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | - | <0.5U | - | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | - | <2.2U | - | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | - | <0.45U | - | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | - | <0.4U | - | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | - | <0.46U | - | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | - | <0.53U | - | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | - | <0.6U | - | - |
| | 2-Methylphenol | µg/L | <0.4U | - | - | <0.4U | - | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | - | <0.42U | - | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | - | <0.48U | - | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | - | - | <0.4U | - | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | - | <0.48U | - | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | - | <2.2U | - | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | - | <0.45U | - | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | - | <0.45U | - | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | - | <0.59U | - | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | - | <0.35U | - | - |
| | 4-Methylphenol | µg/L | **14** | - | - | <0.36U | - | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | - | <0.25U | - | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | - | <1.5U | - | - |
| | Acenaphthene | µg/L | <0.41U | - | - | <0.41U | - | - |
| | Acenaphthylene | µg/L | <0.38U | - | - | <0.38U | - | - |
| | Anthracene | µg/L | <0.28U | - | - | <0.28U | - | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | - | <0.36U | - | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | - | <0.47U | - | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | - | <0.34U | - | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | - | <0.35U | - | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | - | <0.73U | - | - |
| | Benzoic acid | µg/L | <100U | - | - | <100U | - | - |
| | Benzyl alcohol | µg/L | <0.44U | - | - | **0.67J** | - | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | - | <0.35U | - | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | - | <0.4U | - | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | - | <0.52U | - | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | - | <1.8U | - | - |
| | Butyl benzyl phthalate | µg/L | <0.42U | - | - | <0.42U | - | - |
| | Carbazole | µg/L | <0.3U | - | - | <0.3U | - | - |
| | Chrysene | µg/L | <0.33U | - | - | <0.33U | - | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | - | <0.42U | - | - |
| | Dibenzofuran | µg/L | <0.51U | - | - | <0.51U | - | - |

**MW-1C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/20/2022 | 7/26/2022 | 10/26/2022 | 4/25/2023 | 8/1/2023 | 10/31/2023 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Diethyl phthalate | µg/L | <0.22U | - | - | <0.22U | - | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | - | <0.36U | - | - |
| | Di-n-butyl phthalate | µg/L | <10U | - | - | **0.74J** | - | - |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | - | <0.47U | - | - |
| | Fluoranthene | µg/L | <0.4U | - | - | <0.4U | - | - |
| | Fluorene | µg/L | <0.36U | - | - | <0.36U | - | - |
| | Hexachlorobenzene | µg/L | <0.51U | - | - | <0.51U | - | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | - | <0.68U | - | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | - | <0.59U | - | - |
| | Hexachloroethane | µg/L | <0.59U | - | - | <0.59U | - | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | - | <0.47U | - | - |
| | Isophorone | µg/L | <0.43U | - | - | <0.43U | - | - |
| | Naphthalene | µg/L | <0.76U | - | - | <0.76U | - | - |
| | Nitrobenzene | µg/L | <0.29U | - | - | <0.29U | - | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | - | <0.54U | - | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | - | <0.51U | - | - |
| | Pentachlorophenol | µg/L | <2.2UJ | - | - | <2.2U | - | - |
| | Phenanthrene | µg/L | <0.44U | - | - | <0.44U | - | - |
| | Phenol | µg/L | **5.1** | - | - | <0.39U | - | - |
| | Pyrene | µg/L | <0.34U | - | - | <0.34U | - | - |
| | Total SVOCS | µg/L | **25** | - | - | **9.5** | - | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82UJ | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21UJ | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23UJ | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **0.55J** | **1.4J** | **0.95J** | <0.38U | **1.2J** | **0.66J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29UJ | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | <0.79UJ | <0.79U | <0.4U | <0.79U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21UJ | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72UJ | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.78U | <0.78UJ | **0.81J** | <0.48U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | **1.8J** | **2.2J** | **2.7J** | **1.6J** | **2.5J** | **2.2J** |
| | 2-Butanone | µg/L | <1.3U | <1.3UJ | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2UJ | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1UJ | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | **66** | **7.9J** | <3U | **6.3J** | **3.8J** | <3U |
| | Benzene | µg/L | <0.41U | <0.41UJ | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39UJ | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26UJ | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69UJ | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19UJ | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27UJ | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **2.2J** | **4J** | **4.4J** | **1.8J** | **4.5J** | **3.6J** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32UJ | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32UJ | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34UJ | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35UJ | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81UJ | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36UJ | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44UJ | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74UJ | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73UJ | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46UJ | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36UJ | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | **1.4J** | <0.51UJ | <0.51U | **10J** | **6.9J** | **5** |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37UJ | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66UJ | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **72** | **16** | **8.9** | **20** | **19** | **12** |

**MW-1C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 5/1/2024 | 7/29/2024 | 10/29/2024 | 4/22/2025 | 7/30/2025 | 10/23/2025 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **133J-** | **70.3** | **80** | **50.6J** | **150** | **160** |
| | Ammonia | mg/L | **2.4J+** | **4.8** | **1.4** | **1.7** | **1.5** | **5.3** |
| | Nitrate+Nitrite | mg/L | **0.068** | <0.02UJ | <0.02UR | **0.04J** | **0.037J** | **0.025J** |
| | Sulfate | mg/L | <2.4U | **1.6J** | <1.5U | <1.5U | <1.5U | <1.5U |
| | Total Organic Carbon | mg/L | **20.5** | **5** | **5.1** | **5.8** | **7** | **4.2** |
| Metals | Arsenic | µg/L | **60** | **71** | **72** | **48** | **59** | **60** |
| | Iron | µg/L | **35,600** | **44,600** | **42,700** | **30,400** | **44,700** | **43,700** |
| | Manganese | µg/L | **33,300** | **22,800** | **21,400** | **14,000** | **23,100** | **22,800** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <0.44U | - | - | <0.52U | - | - |
| | 1,2-Dichlorobenzene | µg/L | <0.4U | - | - | **0.93J** | - | - |
| | 1,3-Dichlorobenzene | µg/L | <0.48U | - | - | **1J** | - | - |
| | 1,4-Dichlorobenzene | µg/L | **0.68J** | - | - | **3.1J** | - | - |
| | 1,4-Dioxane | µg/L | **1.7J** | - | - | **4.9J** | - | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | - | <0.48U | - | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | - | <0.61U | - | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | - | <0.51U | - | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | - | <0.5U | - | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | - | <2.2U | - | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | - | <0.45U | - | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | - | <0.4U | - | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | - | <0.46U | - | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | - | <0.53U | - | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | - | <0.6U | - | - |
| | 2-Methylphenol | µg/L | <0.4U | - | - | <0.4U | - | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | - | <0.42U | - | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | - | <0.48U | - | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | - | - | <0.4U | - | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | - | <0.48UJ | - | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | - | <2.2U | - | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | - | <0.45U | - | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | - | <0.45U | - | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | - | <0.59U | - | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | - | <0.35U | - | - |
| | 4-Methylphenol | µg/L | **38** | - | - | <0.36U | - | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | - | <0.25U | - | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | - | <1.5U | - | - |
| | Acenaphthene | µg/L | <0.41U | - | - | <0.41U | - | - |
| | Acenaphthylene | µg/L | <0.38U | - | - | <0.38U | - | - |
| | Anthracene | µg/L | <0.28U | - | - | <0.28U | - | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | - | <0.36U | - | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | - | <0.47U | - | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | - | <0.34U | - | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | - | <0.35U | - | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | - | <0.73U | - | - |
| | Benzoic acid | µg/L | <100U | - | - | <100U | - | - |
| | Benzyl alcohol | µg/L | <0.44U | - | - | <0.44UJ | - | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | - | <0.35U | - | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | - | <0.4U | - | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | - | <0.52UJ | - | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | - | <1.8U | - | - |
| | Butyl benzyl phthalate | µg/L | <0.42U | - | - | <0.42U | - | - |
| | Carbazole | µg/L | <0.3U | - | - | <0.3UJ | - | - |
| | Chrysene | µg/L | <0.33U | - | - | <0.33U | - | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | - | <0.42U | - | - |
| | Dibenzofuran | µg/L | <0.51U | - | - | <0.51U | - | - |

**MW-1C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C | MW-1C |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 5/1/2024 | 7/29/2024 | 10/29/2024 | 4/22/2025 | 7/30/2025 | 10/23/2025 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Diethyl phthalate | µg/L | <0.22U | - | - | <0.22U | - | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | - | <0.36U | - | - |
| | Di-n-butyl phthalate | µg/L | <0.31U | - | - | <0.31U | - | - |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | - | <0.47U | - | - |
| | Fluoranthene | µg/L | <0.4U | - | - | <0.4U | - | - |
| | Fluorene | µg/L | <0.36U | - | - | <0.36U | - | - |
| | Hexachlorobenzene | µg/L | <0.51U | - | - | <0.51U | - | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | - | <0.68U | - | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | - | <0.59U | - | - |
| | Hexachloroethane | µg/L | <0.59U | - | - | <0.59U | - | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | - | <0.47U | - | - |
| | Isophorone | µg/L | <0.43U | - | - | <0.43U | - | - |
| | Naphthalene | µg/L | <0.76U | - | - | <0.76U | - | - |
| | Nitrobenzene | µg/L | <0.29U | - | - | <0.29U | - | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | - | <0.54UJ | - | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | - | <0.51U | - | - |
| | Pentachlorophenol | µg/L | <2.2U | - | - | <2.2U | - | - |
| | Phenanthrene | µg/L | <0.44U | - | - | <0.44U | - | - |
| | Phenol | µg/L | **11** | - | - | <0.39U | - | - |
| | Pyrene | µg/L | <0.34U | - | - | <0.34U | - | - |
| | Total SVOCS | µg/L | **52** | - | - | **10** | - | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <1.6U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.42U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.46U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.76U | **1.7J** | **2.4J** | **0.82J** | **1.1J** | **1.4J** |
| | 1,1-Dichloroethene | µg/L | <0.58U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <1.6U | <0.79U | **2.1J** | **1.6J** | <0.79U | **1.5J** |
| | 1,2-Dichloroethane | µg/L | <0.42U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <1.4U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <1.6U | <0.78U | **2J** | **1.7J** | **1.2J** | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <1.7U | **2.4J** | **7.2** | **4.8J** | **4.1J** | **5.5** |
| | 2-Butanone | µg/L | <2.6U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <2.5U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <4.2U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | **11J** | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.82U | **0.44J** | **0.85J** | <0.41U | <0.41U | **0.53J** |
| | Dichlorobromomethane | µg/L | <0.78U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.52U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <1.4U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.38U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.54U | <0.27U | <0.27UJ | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <1.5U | **6.7** | **17** | **6.9** | **5.9** | **10** |
| | Chlorodibromomethane | µg/L | <0.64U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.64U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.68U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.7U | <0.35U | <0.35U | <0.35U | <0.35UJ | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <1.6U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.72U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.88U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <1.5U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <1.5U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.92U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.72U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | **89** | <0.51U | <0.51U | <0.51U | **1.5J** | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <1.8U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.74U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <1.8U | <0.9U | <0.9U | <0.9U | <0.9UJ | <0.9U |
| | Total Xylenes | µg/L | <1.3U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **100** | **12** | **32** | **16** | **14** | **19** |

**MW-6A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 7/24/2008 | 10/22/2008 | 4/27/2009 | 7/17/2009 | 10/29/2009 | 5/6/2010 | 7/22/2010 | 10/28/2010 |
| | Parameters | Units | | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | - | - | - | - | - | **336** | - | - | - |
| | Ammonia | mg/L | - | - | - | - | - | - | - | - | - |
| | Nitrate+Nitrite | mg/L | - | - | - | - | - | - | - | - | - |
| | Sulfate | mg/L | - | - | - | - | - | - | - | - | - |
| | Total Organic Carbon | mg/L | - | - | - | - | - | - | - | - | - |
| Metals | Arsenic | µg/L | - | - | - | - | - | - | - | - | - |
| | Iron | µg/L | - | - | - | - | - | - | - | - | - |
| | Manganese | µg/L | - | - | - | - | - | - | - | - | - |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | - | - | - | - | - | - | - | - |
| | 1,2-Dichlorobenzene | µg/L | - | - | - | - | - | - | - | - | - |
| | 1,3-Dichlorobenzene | µg/L | - | - | - | - | - | - | - | - | - |
| | 1,4-Dichlorobenzene | µg/L | - | - | - | - | - | - | - | - | - |
| | 1,4-Dioxane | µg/L | - | - | - | - | - | - | - | - | - |
| | 2,4,5-Trichlorophenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 2,4,6-Trichlorophenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 2,4-Dichlorophenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 2,4-Dimethylphenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 2,4-Dinitrophenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 2,4-Dinitrotoluene | µg/L | - | - | - | - | - | - | - | - | - |
| | 2,6-Dinitrotoluene | µg/L | - | - | - | - | - | - | - | - | - |
| | 2-Chloronaphthalene | µg/L | - | - | - | - | - | - | - | - | - |
| | 2-Chlorophenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 2-Methylnaphthalene | µg/L | - | - | - | - | - | - | - | - | - |
| | 2-Methylphenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 2-Nitroaniline | µg/L | - | - | - | - | - | - | - | - | - |
| | 2-Nitrophenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 3,3-Dichlorobenzidine | µg/L | - | - | - | - | - | - | - | - | - |
| | 3-Nitroaniline | µg/L | - | - | - | - | - | - | - | - | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | - | - | - | - | - | - | - | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 4-Chloroaniline | µg/L | - | - | - | - | - | - | - | - | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | - | - | - | - | - | - | - | - |
| | 4-Methylphenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 4-Nitroaniline | µg/L | - | - | - | - | - | - | - | - | - |
| | 4-Nitrophenol | µg/L | - | - | - | - | - | - | - | - | - |
| | Acenaphthene | µg/L | - | - | - | - | - | - | - | - | - |
| | Acenaphthylene | µg/L | - | - | - | - | - | - | - | - | - |
| | Anthracene | µg/L | - | - | - | - | - | - | - | - | - |
| | Benz(a)anthracene | µg/L | - | - | - | - | - | - | - | - | - |
| | Benzo(a)pyrene | µg/L | - | - | - | - | - | - | - | - | - |
| | Benzo(b)fluoranthene | µg/L | - | - | - | - | - | - | - | - | - |
| | Benzo(g,h,i)perylene | µg/L | - | - | - | - | - | - | - | - | - |
| | Benzo(k)fluoranthene | µg/L | - | - | - | - | - | - | - | - | - |
| | Benzoic acid | µg/L | - | - | - | - | - | - | - | - | - |
| | Benzyl alcohol | µg/L | - | - | - | - | - | - | - | - | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | - | - | - | - | - | - | - | - |
| | Bis(2-chloroethyl)ether | µg/L | - | - | - | - | - | - | - | - | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | - | - | - | - | - | - | - | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | - | - | - | - | - | - | - | - |
| | Butyl benzyl phthalate | µg/L | - | - | - | - | - | - | - | - | - |
| | Carbazole | µg/L | - | - | - | - | - | - | - | - | - |
| | Chrysene | µg/L | - | - | - | - | - | - | - | - | - |
| | Dibenz(a,h)anthracene | µg/L | - | - | - | - | - | - | - | - | - |
| | Dibenzofuran | µg/L | - | - | - | - | - | - | - | - | - |
| | Diethyl phthalate | µg/L | - | - | - | - | - | - | - | - | - |
| | Dimethyl phthalate | µg/L | - | - | - | - | - | - | - | - | - |
| | Di-n-butyl phthalate | µg/L | - | - | - | - | - | - | - | - | - |
| | Di-n-octyl phthalate | µg/L | - | - | - | - | - | - | - | - | - |

**MW-6A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 7/24/2008 | 10/22/2008 | 4/27/2009 | 7/17/2009 | 10/29/2009 | 5/6/2010 | 7/22/2010 | 10/28/2010 |
| | Parameters | Units | | | | | | | | | |
| Semivolatile Organics | Fluoranthene | µg/L | - | - | - | - | - | - | - | - | - |
| | Fluorene | µg/L | - | - | - | - | - | - | - | - | - |
| | Hexachlorobenzene | µg/L | - | - | - | - | - | - | - | - | - |
| | Hexachlorobutadiene | µg/L | - | - | - | - | - | - | - | - | - |
| | Hexachlorocyclopentadiene | µg/L | - | - | - | - | - | - | - | - | - |
| | Hexachloroethane | µg/L | - | - | - | - | - | - | - | - | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | - | - | - | - | - | - | - | - |
| | Isophorone | µg/L | - | - | - | - | - | - | - | - | - |
| | Naphthalene | µg/L | - | - | - | - | - | - | - | - | - |
| | Nitrobenzene | µg/L | - | - | - | - | - | - | - | - | - |
| | N-nitrosodi-n-propylamine | µg/L | - | - | - | - | - | - | - | - | - |
| | N-Nitrosodiphenylamine | µg/L | - | - | - | - | - | - | - | - | - |
| | Pentachlorophenol | µg/L | - | - | - | - | - | - | - | - | - |
| | Phenanthrene | µg/L | - | - | - | - | - | - | - | - | - |
| | Phenol | µg/L | - | - | - | - | - | - | - | - | - |
| | Pyrene | µg/L | - | - | - | - | - | - | - | - | - |
| | Total SVOCS | µg/L | - | - | - | - | - | - | - | - | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | **0.82J** | **15J** | **13J** | **8.3** | **15** | **10J** | **4.2J** | **4.9J** | **6J** |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <20U | <20U | <0.21U | <0.21U | <0.85U | <10U | <10U | <10U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <20U | <20U | <0.23U | <0.23U | <0.92U | <10U | <10U | <10U |
| | 1,1-Dichloroethane | µg/L | **50** | **130** | **85** | **78** | **83** | **83** | **65** | **83** | **69** |
| | 1,1-Dichloroethene | µg/L | <5U | <20U | <20U | **0.98J** | **0.99J** | <1.2U | <10U | <10U | <10U |
| | 1,2-Dichlorobenzene | µg/L | **8.2** | **11J** | **12J** | **13** | **13** | **12J** | **11** | **12** | **9.7J** |
| | 1,2-Dichloroethane | µg/L | **0.98J** | **3.2J** | **3.2J** | **2.3J** | **2.4J** | **2J** | **1.8J** | **2.3J** | **1.7J** |
| | 1,2-Dichloropropane | µg/L | <5U | <20U | <20U | **1.1J** | **1J** | <1.3U | <10U | <10U | <10U |
| | 1,3-Dichlorobenzene | µg/L | **5.8** | **3.9J** | **4.9J** | **6.6** | **6.3** | **4.7J** | **5.9J** | **5.4J** | **4.6J** |
| | 1,4-Dichlorobenzene | µg/L | **36** | **44** | **39** | **48** | **48** | **40** | **45** | **45** | **34** |
| | 2-Butanone | µg/L | <5U | <20U | <20U | <1.3U | <1.3U | <5.3U | <10U | <10U | <10U |
| | 2-Hexanone | µg/L | <5U | <20U | <20U | <1.2U | <1.2U | <5U | <10U | <10U | <10U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <20U | <20U | <0.91U | <0.91U | <3.6U | <10U | <10U | <10U |
| | Acetone | µg/L | <10U | <6.5U | <40U | <1.3U | <1.3U | <5.4U | <20U | <20U | <20U |
| | Benzene | µg/L | **3.1J** | **3.7J** | **2.4J** | **1.7J** | **2.4J** | **2.3J** | **2.6J** | **1.5J** | <10U |
| | Dichlorobromomethane | µg/L | <5U | **5.5J** | <20U | <0.39U | <0.39U | <1.5U | <10U | <10U | <10U |
| | Bromoform | µg/L | <5U | <20U | <20U | <0.26U | <0.26U | <1U | <10U | <10U | <10U |
| | Bromomethane | µg/L | <5U | <20U | <20U | <0.28U | <0.28U | <1.1U | <10U | <10U | <10U |
| | Carbon Disulfide | µg/L | <5U | <20U | <20U | <0.19U | <0.19U | <0.78U | <10U | <10U | <10U |
| | Carbon Tetrachloride | µg/L | <5U | <20U | <20U | <0.27U | <0.27U | <1.1U | <10U | <10U | <10U |
| | Chlorobenzene | µg/L | **18** | **25** | **23** | **24** | **24** | **23** | **21** | **24** | **20** |
| | Chlorodibromomethane | µg/L | <5U | <20U | <20U | <0.32U | <0.32U | <1.3U | <10U | <10U | <10U |
| | Chloroethane | µg/L | **33** | **46** | **52** | **50** | **74** | **46** | **45** | **28** | **19** |
| | Chloroform | µg/L | <5U | **5.5J** | **4.5J** | **3.1J** | **4.3J** | **3.5J** | **1.8J** | **3.5J** | **2.1J** |
| | Chloromethane | µg/L | <5U | <20U | <20U | <0.35U | <0.35U | <1.4U | <10U | <10U | <10U |
| | cis-1,2-Dichloroethene | µg/L | **17** | **88** | **82** | **56** | **75** | **71** | **32** | **62J** | **40** |
| | cis-1,3-Dichloropropene | µg/L | <5U | <20U | <20U | <0.36U | <0.36U | <1.4U | <10U | <10U | <10U |
| | Methylene Chloride | µg/L | <5U | **3.2J** | <20U | <0.44U | <0.44U | **4.1J** | **1J** | <10U | <10U |
| | Ethylbenzene | µg/L | <5U | <20U | <20U | <0.18U | <0.18U | <0.74U | <10U | <10U | <10U |
| | Styrene | µg/L | <5U | <20U | <20U | <0.18U | <0.18U | <0.74U | <10U | <10U | <10U |
| | Trichloroethene | µg/L | **20** | **320** | **230** | **180** | **210** | **220** | **100** | **170** | **92** |
| | Tetrachloroethene | µg/L | **0.76J** | **6.2J** | **7.1J** | **4.3J** | **3.6J** | **4.8J** | **2J** | **3.4J** | **1.8J** |
| | Toluene | µg/L | <5U | <20U | <20U | <0.51U | <0.51U | <2U | <10U | <10U | <10U |
| | trans-1,2-Dichloroethene | µg/L | <1U | <4U | <4U | **0.61J** | <0.42U | <1.7U | <2U | <2U | <2U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <20U | <20U | <0.37U | <0.37U | <1.5U | <10U | <10U | <10U |
| | Vinyl Chloride | µg/L | **11** | **48** | **32** | **23** | **37** | **38** | **18** | **33** | **20** |
| | Total Xylenes | µg/L | <5U | <20U | <20U | <0.66U | <0.66U | <2.6U | <10U | <10U | <10U |
| | Total VOCS | µg/L | **210** | **760** | **590** | **510** | **600** | **570** | **360** | **480** | **320** |

**MW-6A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/26/2011 | 10/19/2011 | 4/30/2012 | 11/20/2012 | 4/17/2013 | 10/22/2013 | 4/22/2014 | 10/21/2014 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **220** | **239J** | **186J** | **170J** | **183** | **197J** | - | **187** |
| | Ammonia | mg/L | **0.088** | **0.24** | **0.16** | **0.19** | **0.18** | **0.16J** | - | **0.21** |
| | Nitrate+Nitrite | mg/L | <0.05U | <0.05UJ | <0.05U | **0.077** | <0.02U | **0.022J** | - | <0.02UJ |
| | Sulfate | mg/L | **6.9J** | <5UJ | **2.5J** | **2.2J** | <1.5U | <6.6U | - | **3.9J** |
| | Total Organic Carbon | mg/L | **2.7J** | **2** | **0.63J** | **0.45J** | **1.8** | **1.4** | - | **1.7** |
| Metals | Arsenic | µg/L | <10U | <10U | <10U | <10U | **27** | <5.6U | - | <5.6U |
| | Iron | µg/L | **73J** | **45J** | **62J** | **52J** | **10,100** | **46J** | - | **190** |
| | Manganese | µg/L | **10,800** | **11,800** | **10,900** | **9800** | **15,900** | **8,900** | - | **8,800** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **6.1** | **3.4** | **7** | **6.2** | **7.3** | - | **6.5** | - |
| | 1,2-Dichlorobenzene | µg/L | **9.7** | **7.2** | **9.1** | **8.3** | **10** | - | **8.7** | - |
| | 1,3-Dichlorobenzene | µg/L | **5.3** | **5.7J** | **4.9** | **4.4** | **5.6** | - | **4.8** | - |
| | 1,4-Dichlorobenzene | µg/L | **37** | **29** | **34** | **31** | **36** | - | **33** | - |
| | 1,4-Dioxane | µg/L | **26** | **25** | **14** | **15** | **26** | - | **24** | - |
| | 2,4,5-Trichlorophenol | µg/L | <9.4U | <9.4U | <9.6U | <9.4U | <0.46U | - | <0.44U | - |
| | 2,4,6-Trichlorophenol | µg/L | <2.9U | <2.9U | <3U | <2.9U | <0.58U | - | <0.56U | - |
| | 2,4-Dichlorophenol | µg/L | <2.6U | <2.6U | <2.7U | <2.6U | <0.49U | - | <0.47U | - |
| | 2,4-Dimethylphenol | µg/L | <2.6U | <2.6U | <2.7U | <2.6U | <0.48U | - | <0.46U | - |
| | 2,4-Dinitrophenol | µg/L | <41U | <41U | <41U | <41U | <2.1U | - | <2U | - |
| | 2,4-Dinitrotoluene | µg/L | <5.5UJ | <5.5U | <5.6U | <5.5U | <0.43U | - | <0.41U | - |
| | 2,6-Dinitrotoluene | µg/L | <1.8U | <1.8U | <1.8U | <1.8U | <0.38U | - | <0.37U | - |
| | 2-Chloronaphthalene | µg/L | <1.8U | <1.8U | <1.8U | <1.8U | <0.44U | - | <0.42U | - |
| | 2-Chlorophenol | µg/L | <3.1U | <3.1U | <3.2U | <3.1U | <0.5U | - | <0.49U | - |
| | 2-Methylnaphthalene | µg/L | <9.4U | <9.4U | <9.6U | <9.4U | <0.57U | - | <0.55U | - |
| | 2-Methylphenol | µg/L | <9.4U | <9.4U | <9.6U | <9.4U | <0.38U | - | <0.37U | - |
| | 2-Nitroaniline | µg/L | <9.4U | <9.4U | <9.6U | <9.4U | <0.4U | - | <0.38U | - |
| | 2-Nitrophenol | µg/L | <3.4U | <3.4U | <3.4U | <3.4U | <0.46U | - | <0.44U | - |
| | 3,3-Dichlorobenzidine | µg/L | <16U | <16U | <16U | <16U | <0.38U | - | <0.37U | - |
| | 3-Nitroaniline | µg/L | <9.4U | <9.4U | <9.6U | <9.4U | <0.46U | - | <0.44UJ | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <23U | <23U | <23U | <23U | <2.1U | - | <2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <1.7U | <1.7U | <1.7U | <1.7U | <0.43U | - | <0.41U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <2.8UJ | <2.8U | <2.9U | <2.8U | <0.43U | - | **0.47J** | - |
| | 4-Chloroaniline | µg/L | <1.9U | <1.9U | <1.9U | <1.9U | <0.56U | - | <0.54UJ | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <4.1U | <4.1U | <4.1U | <4.1U | <0.33U | - | <0.32U | - |
| | 4-Methylphenol | µg/L | <9.4U | <9.4U | <9.6U | <9.4UJ | <0.34U | - | <0.33U | - |
| | 4-Nitroaniline | µg/L | <9.4U | <9.4U | <9.6U | <9.4U | <0.24U | - | <0.23U | - |
| | 4-Nitrophenol | µg/L | <2.8UJ | <2.8U | <2.9U | <2.8U | <1.4U | - | <1.4U | - |
| | Acenaphthene | µg/L | <1.7U | <1.7U | <1.7U | <1.7U | <0.39U | - | <0.38U | - |
| | Acenaphthylene | µg/L | <3.3U | <3.3U | <3.3U | <3.3U | <0.36U | - | <0.35U | - |
| | Anthracene | µg/L | <1.7U | <1.7U | <1.7U | <1.7U | <0.27U | - | <0.26U | - |
| | Benz(a)anthracene | µg/L | <7.4U | <7.4U | <7.5U | <7.4U | <0.34U | - | <0.33U | - |
| | Benzo(a)pyrene | µg/L | <2.5U | <2.5U | <2.5U | <2.5U | <0.45U | - | <0.43U | - |
| | Benzo(b)fluoranthene | µg/L | <9.4U | <9.4U | <9.6U | <9.4U | <0.32U | - | <0.31U | - |
| | Benzo(g,h,i)perylene | µg/L | <3.9U | <3.9U | <3.9U | <3.9U | <0.33U | - | <0.32UJ | - |
| | Benzo(k)fluoranthene | µg/L | <2.4U | **1.4J** | <2.4U | <2.4U | <0.69U | - | <0.67U | - |
| | Benzoic acid | µg/L | <94U | <94U | <96U | <94U | <95U | - | <92U | - |
| | Benzyl alcohol | µg/L | <6.6U | <6.6U | <6.7U | <6.6U | <0.42U | - | <1.9U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <5U | <5U | <5.1U | <5U | <0.33U | - | <0.32U | - |
| | Bis(2-chloroethyl)ether | µg/L | <5.4U | <5.4U | <5.5U | <5.4U | <0.38U | - | <0.37U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <5.4U | <5.4UJ | <5.5U | <5.4U | <0.49U | - | <0.48U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <9.4UJ | <9.4U | <9.6U | <9.4U | <1.7U | - | <1.6U | - |
| | Butyl benzyl phthalate | µg/L | <9.4U | <9.4U | <9.6U | <9.4U | <0.4U | - | <0.38U | - |
| | Carbazole | µg/L | <9.4U | <9.4U | <9.6U | <9.4UJ | <0.29U | - | <0.27U | - |
| | Chrysene | µg/L | <2.4U | <2.4U | <2.4U | <2.4U | <0.31U | - | <0.3U | - |
| | Dibenz(a,h)anthracene | µg/L | <9.4U | <9.4U | <9.6U | <9.4U | <0.4U | - | <0.38U | - |
| | Dibenzofuran | µg/L | <9.4U | <9.4U | <9.6U | <9.4U | <0.49U | - | <0.47U | - |
| | Diethyl phthalate | µg/L | <9.4U | <9.4U | <9.6U | <9.4U | <0.21U | - | <0.2U | - |
| | Dimethyl phthalate | µg/L | <9.4U | <9.4U | <9.6U | <9.4U | <0.34U | - | <0.33U | - |
| | Di-n-butyl phthalate | µg/L | <9.4U | <9.4U | <9.6U | <9.4U | <0.29U | - | <0.28U | - |
| | Di-n-octyl phthalate | µg/L | <9.4U | <9.4U | <9.6U | <9.4U | <0.45U | - | <0.43U | - |

**MW-6A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/26/2011 | 10/19/2011 | 4/30/2012 | 11/20/2012 | 4/17/2013 | 10/22/2013 | 4/22/2014 | 10/21/2014 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Fluoranthene | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <0.38U | - | <0.37U | - |
| | Fluorene | µg/L | <1.8U | <1.8U | <1.8U | <1.8U | <0.34U | - | <0.33U | - |
| | Hexachlorobenzene | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <0.49U | - | <0.47U | - |
| | Hexachlorobutadiene | µg/L | <2.4U | <2.4U | <2.5U | <2.4U | <0.65U | - | <0.62U | - |
| | Hexachlorocyclopentadiene | µg/L | <9.4U | <9.4U | <9.6U | <9.4U | <0.56U | - | <0.54U | - |
| | Hexachloroethane | µg/L | <2.7U | <2.7U | <2.7U | <2.7U | <0.56U | - | <0.54U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4.5U | <4.5U | <4.6U | <4.5U | <0.45U | - | <0.43U | - |
| | Isophorone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <0.41U | - | <0.39U | - |
| | Naphthalene | µg/L | <1.5U | <1.5U | <1.5U | <1.5U | <0.72U | - | <0.7U | - |
| | Nitrobenzene | µg/L | <1.9U | <1.9U | <1.9U | <1.9U | <0.28U | - | <0.27U | - |
| | N-nitrosodi-n-propylamine | µg/L | <4.7U | <4.7U | <4.8U | <4.7U | <0.51U | - | <0.49U | - |
| | N-Nitrosodiphenylamine | µg/L | <1.8U | <1.8U | <1.8U | <1.8U | <0.49U | - | <0.47U | - |
| | Pentachlorophenol | µg/L | <4.8UJ | <4.8U | <4.9U | <4.8U | <2.1U | - | <2U | - |
| | Phenanthrene | µg/L | <4.7U | <4.7U | <4.8U | <4.7U | <0.42U | - | <0.4U | - |
| | Phenol | µg/L | <2.4U | <2.4U | <2.4U | <2.4U | <0.37U | - | <0.36U | - |
| | Pyrene | µg/L | <1.8U | <1.8U | <1.8U | <1.8U | <0.32U | - | <0.31U | - |
| | Total SVOCS | µg/L | **85** | **72** | **69** | **65** | **85** | - | **78** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | **5.3** | **2J** | **10** | **11J** | **16J** | **8.1** | **7J** | **8** |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <10U | <20U | <0.84U | <0.21U | <0.84U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <10U | <20U | <0.92U | <0.23U | <0.92U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **65** | **60** | **68J** | **67** | **73** | **58** | **59** | **59** |
| | 1,1-Dichloroethene | µg/L | **0.64J** | <5U | **1.8J** | <20U | <1.2U | **0.81J** | <1.2U | **0.67J** |
| | 1,2-Dichlorobenzene | µg/L | **10** | **10** | **12J** | **11J** | **13J** | **11** | **11J** | **11** |
| | 1,2-Dichloroethane | µg/L | **1.8J** | **1.4J** | **1.7J** | **1.5J** | <0.84U | **1.4J** | **1.4J** | **1.8J** |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <10U | <20U | <2.9U | <0.72U | <2.9U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **6** | **6.5** | **6.5J** | **6.2J** | **6.8J** | **5.4** | **6.1J** | **4.7J** |
| | 1,4-Dichlorobenzene | µg/L | **44** | **44** | **46** | **42** | **47** | **39** | **44** | **45** |
| | 2-Butanone | µg/L | <5U | <5U | <10U | <20U | <5.3U | <1.3U | <5.3U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <5U | <10U | <20U | <5U | <1.2U | <5U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <10U | <20U | <8.4U | <2.1U | <8.4U | <2.1U |
| | Acetone | µg/L | <10U | <10U | <20U | <40U | <12U | <3U | <12U | <3U |
| | Benzene | µg/L | **3.3J** | **2.1J** | **1.6J** | <20U | **2.2J** | **0.77J** | **2J** | **1.5J** |
| | Dichlorobromomethane | µg/L | <5U | <5U | <10U | <20U | <1.6U | <0.39U | <1.6U | <0.39U |
| | Bromoform | µg/L | <5U | <5U | <10U | <20U | <1U | <0.26U | <1U | <0.26U |
| | Bromomethane | µg/L | <5U | <5U | <10U | <20U | <2.8U | <0.69U | <2.8U | <0.69U |
| | Carbon Disulfide | µg/L | <5U | <5U | <10U | <20U | <0.76U | <0.19U | <0.76U | <0.19U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <10U | <20U | <1.1U | <0.27U | <1.1U | <0.27U |
| | Chlorobenzene | µg/L | **22** | **20** | **24J** | **22** | **25** | **21** | **23** | **25** |
| | Chlorodibromomethane | µg/L | <5U | <5U | <10U | <20U | <1.3U | <0.32U | <1.3U | <0.32U |
| | Chloroethane | µg/L | **54** | **29** | **41** | **43** | **36** | **19** | **18J** | **13** |
| | Chloroform | µg/L | **1.9J** | **0.68J** | **4.5J** | **4.2J** | **5.3J** | **2.6J** | **2.7J** | **2.8J** |
| | Chloromethane | µg/L | <5U | <5U | <10U | <20U | <1.4U | <0.35U | <1.4U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **36** | **17** | **99J** | **78** | **87** | **51** | **56** | **54** |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <10U | <20U | <1.4U | <0.36U | <1.4U | <0.36U |
| | Methylene Chloride | µg/L | **0.55J** | <5U | **0.95J** | <20U | <1.8U | <0.44U | <1.8U | <0.44U |
| | Ethylbenzene | µg/L | <5U | <5U | <10U | <20U | <3U | <0.74U | <3U | <0.74U |
| | Styrene | µg/L | <5U | <5U | <10U | <20U | <2.9U | <0.73U | <2.9U | <0.73U |
| | Trichloroethene | µg/L | **100** | **35** | **210J** | **220** | **290** | **140** | **160** | **130** |
| | Tetrachloroethene | µg/L | **2.1J** | **0.85J** | **2.7J** | **3J** | **2.7J** | **4J** | **1.9J** | **3.2J** |
| | Toluene | µg/L | **0.81J** | <5U | <10U | <20UJ | <2U | <0.51U | <2U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <2U | <4U | <3.6U | <0.9U | <3.6U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <10U | <20U | <1.5U | <0.37U | <1.5U | <0.37U |
| | Vinyl Chloride | µg/L | **17** | **11** | **45** | **27** | **32** | **19** | **19J** | - |
| | Total Xylenes | µg/L | <5U | <5U | <10U | <20U | <2.6U | <0.66U | <2.6U | - |
| | Total VOCS | µg/L | **380** | **240** | **580** | **540** | **640** | **390** | **420** | **360** |

**MW-6A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/21/2015 | 10/20/2015 | 5/17/2016 | 10/28/2016 | 4/24/2017 | 10/18/2017 | 5/7/2018 | 10/16/2018 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **195** | **180J** | **200** | **195** | **206** | **169** | **175** | **164** |
| | Ammonia | mg/L | **0.2** | **0.23** | **0.24** | **0.23** | **0.32** | **0.27** | **0.36** | **0.36** |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.02UJ | <0.02U | <0.02U | <0.02U | <0.02U | <0.02U | <0.02U |
| | Sulfate | mg/L | <1.5U | **5.1** | <5U | **3J** | <1.5U | **3.2U** | **3.6U** | **4U** |
| | Total Organic Carbon | mg/L | **1.8** | **1.2** | **1.8** | **1.5** | **1.5** | **1.5** | **1.5** | **1.6** |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **70J** | **43J** | <150U | **79J** | **76J** | **54J** | <58U | **64J** |
| | Manganese | µg/L | **9,100J** | **7,600** | **9,400** | **7,300** | **9,100** | **7,600** | **8,200** | **7,700** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **4.7** | - | **6.1** | - | **4.3J** | - | **6.1** | - |
| | 1,2-Dichlorobenzene | µg/L | **8.7** | - | **11** | - | **8.2J** | - | **9** | - |
| | 1,3-Dichlorobenzene | µg/L | **5.1** | - | **6.6** | - | **5.5J** | - | **5.7** | - |
| | 1,4-Dichlorobenzene | µg/L | **35** | - | **39** | - | **34** | - | **37** | - |
| | 1,4-Dioxane | µg/L | **25J** | - | **25** | - | **31J** | - | **23** | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | <0.45U | - | <2.4U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | <0.57U | - | <3.1U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | <0.48U | - | <2.6U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <0.5UJ | - | <0.47U | - | <2.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | <2.1U | - | <11U | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | <0.42U | - | <2.2U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | <0.37U | - | <2U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | <0.43U | - | <2.3U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | <0.49U | - | <2.7U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | <0.56U | - | <3U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | <0.4UJ | - | <0.37U | - | <2U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | <0.39U | - | <2.1U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | <0.45U | - | <2.4U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | - | - | <0.37U | - | <2U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | <0.45U | - | <2.4U | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | <2.1U | - | <11U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | <0.42U | - | <2.3U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | **0.89J** | - | <2.3U | - | **0.68J** | - |
| | 4-Chloroaniline | µg/L | <0.59UJ | - | <0.55U | - | <3U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | <0.33U | - | <1.8U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | <0.36UJ | - | <0.34U | - | <1.8U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.25UJ | - | <0.23U | - | <1.3U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | <1.4U | - | <7.6U | - | <1.5U | - |
| | Acenaphthene | µg/L | <0.41U | - | <0.38U | - | <2.1U | - | <0.41U | - |
| | Acenaphthylene | µg/L | <0.38U | - | <0.35U | - | <1.9U | - | <0.38U | - |
| | Anthracene | µg/L | <0.28U | - | <0.26U | - | <1.4U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | <0.34U | - | <1.8U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | <0.44U | - | <2.4U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | <0.32U | - | <1.7U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | <0.33U | - | <1.8U | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | <0.68U | - | <3.7U | - | <0.73U | - |
| | Benzoic acid | µg/L | - | - | - | - | <500U | - | <100U | - |
| | Benzyl alcohol | µg/L | <0.44U | - | <0.41U | - | <2.2U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | <0.33U | - | <1.8U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | <0.37U | - | <2U | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | <0.49U | - | <2.6U | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | <1.7U | - | <9U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <10U | - | <0.39U | - | <2.1U | - | <0.47U | - |
| | Carbazole | µg/L | <0.3U | - | <0.28U | - | <1.5U | - | <0.3U | - |
| | Chrysene | µg/L | <0.33U | - | <0.31U | - | <1.7U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | <0.39U | - | <2.1U | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.51U | - | <0.48U | - | <2.6U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | <0.22U | - | <0.21U | - | **1.5J** | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | <0.34U | - | <1.8U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | <0.31U | - | <0.29U | - | <1.6U | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | <0.44U | - | <2.4U | - | <0.47U | - |

**MW-6A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/21/2015 | 10/20/2015 | 5/17/2016 | 10/28/2016 | 4/24/2017 | 10/18/2017 | 5/7/2018 | 10/16/2018 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Fluoranthene | µg/L | <0.4U | - | <0.37U | - | <2U | - | <0.4U | - |
| | Fluorene | µg/L | <0.36U | - | <0.34U | - | <1.8U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | <0.51U | - | <0.48U | - | <2.6U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | <0.63U | - | <3.4U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | <0.55U | - | <3U | - | <0.59U | - |
| | Hexachloroethane | µg/L | <0.59U | - | <0.55U | - | <3U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | <0.44U | - | <2.4U | - | <0.47U | - |
| | Isophorone | µg/L | <0.43U | - | <0.4U | - | <2.2U | - | <0.43U | - |
| | Naphthalene | µg/L | <0.77U | - | <0.71U | - | <3.8U | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.29U | - | <0.27U | - | <1.5U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | <0.5U | - | <2.7U | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51UJ | - | <0.48U | - | <2.6U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <2.2U | - | <2.1U | - | <11U | - | <2.2U | - |
| | Phenanthrene | µg/L | <0.44U | - | <0.41U | - | <2.2U | - | <0.44U | - |
| | Phenol | µg/L | <0.39U | - | <0.36U | - | <2U | - | <0.39U | - |
| | Pyrene | µg/L | <0.34U | - | <0.32U | - | <1.7U | - | <0.34U | - |
| | Total SVOCS | µg/L | **79** | - | **89** | - | **85** | - | **82** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | **4.6J** | **6.5J** | **18J** | **5.9J** | **1.9J** | **4.7J** | **2.9J** | **5.2** |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.42U | <0.21U | <0.84U | <0.84U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.46U | <0.23U | <0.92U | <0.92U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **47** | **55** | **61** | **62** | **42** | **51** | **46** | **41** |
| | 1,1-Dichloroethene | µg/L | <0.58U | **1.2J** | <1.2U | <1.2U | **0.31J** | **0.59J** | <0.29U | **1.1J** |
| | 1,2-Dichlorobenzene | µg/L | **9.8J** | **11** | **14J** | **12J** | **9** | **11** | **10** | **9.9** |
| | 1,2-Dichloroethane | µg/L | **1.3J** | **1.8J** | **1.6J** | **1.7J** | **0.66J** | **1.3J** | **1J** | **1J** |
| | 1,2-Dichloropropane | µg/L | <1.4U | <0.72U | <2.9U | <2.9U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **5.7J** | **5.4** | **8.7J** | **6.4J** | **6** | **6.1** | **5.9** | **5.8** |
| | 1,4-Dichlorobenzene | µg/L | **40** | **40** | **55** | **47** | **37** | **46** | **41** | **40** |
| | 2-Butanone | µg/L | <2.6U | <1.3U | <5.3U | <5.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <2.5U | <1.2U | <5U | <5U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <4.2U | <2.1U | <8.4U | <8.4U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <6U | <3U | <12U | <12U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | **1.8J** | **0.51J** | **2.3J** | <1.6U | **2J** | **1.4J** | **1.6J** | **1.3J** |
| | Dichlorobromomethane | µg/L | <0.78U | <0.39U | <1.6U | <1.6U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.52U | <0.26U | <1U | <1U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <1.4U | <0.69U | <2.8U | <2.8U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.38U | <0.19U | <0.76U | <0.76U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.54U | <0.27U | <1.1U | <1.1U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **23** | **22** | **35** | **27** | **21** | **30** | **23** | **24** |
| | Chlorodibromomethane | µg/L | <0.64U | <0.32U | <1.3U | <1.3U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | **23** | **12** | **20** | **13J** | **7.4J** | **9.5** | **12** | **10** |
| | Chloroform | µg/L | **2.1J** | **1.9J** | **5J** | **2.2J** | **0.68J** | **1.8J** | **1.6J** | **2.4J** |
| | Chloromethane | µg/L | <0.7U | <0.35U | <1.4U | <1.4U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **44** | **33** | **62** | **41** | **22** | **35** | **42** | **58** |
| | cis-1,3-Dichloropropene | µg/L | <0.72U | <0.36U | <1.4U | <1.4U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.88U | <0.44U | <1.8U | **7.6J** | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <1.5U | <0.74U | <3U | <3U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <1.5U | <0.73U | <2.9U | <2.9U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **91** | **81** | **270J** | **87** | **45** | **96** | **90** | **140** |
| | Tetrachloroethene | µg/L | **1.2J** | **2.4J** | **5.1J** | **2.2J** | **0.9J** | **2J** | **1.8J** | **3.5J** |
| | Toluene | µg/L | <1U | <0.51U | <2U | <2U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <1.8U | <0.9U | <3.6U | <3.6U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.74U | <0.37U | <1.5U | <1.5U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | **15** | **14** | **30** | **15J** | **8** | **11** | **13** | **20** |
| | Total Xylenes | µg/L | <1.3U | <0.66U | <2.6U | <2.6U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **310** | **290** | **590** | **330** | **210** | **310** | **300** | **370** |

**MW-6A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/22/2019 | 10/7/2019 | 4/29/2020 | 10/19/2020 | 4/26/2021 | 10/25/2021 | 4/20/2022 | 10/25/2022 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **152** | **151** | **174** | **140** | **151** | **166** | **156J-** | **122** |
| | Ammonia | mg/L | **0.52J-** | **0.46** | **0.45** | **0.4** | **0.38** | **0.48** | **0.46** | **0.41** |
| | Nitrate+Nitrite | mg/L | <0.02U | **0.029U** | **0.27J** | <0.02U | <0.02U | <0.051U | <0.02UJ | **1.5J** |
| | Sulfate | mg/L | **13.3** | **7.1** | **14.5J+** | **11.8** | **18.5** | **16.4** | **15.5** | **20.7** |
| | Total Organic Carbon | mg/L | **1.8J** | **0.89J** | **1.9** | **1.0** | **1.9** | **1.9** | **1.9** | **1.7** |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **75J** | **46J** | **660J** | **73J** | **65J** | **50J** | **52J** | **50J** |
| | Manganese | µg/L | **9,400** | **8,100** | **9,300** | **7,200** | **9,200** | **9,300** | **9,600** | **7,600** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **3.3** | - | **6.7** | - | **5** | - | **4.4** | - |
| | 1,2-Dichlorobenzene | µg/L | **4.4** | - | **8.4** | - | **5.6** | - | **4.5** | - |
| | 1,3-Dichlorobenzene | µg/L | **3** | - | **5.5** | - | **4.1** | - | **3.5** | - |
| | 1,4-Dichlorobenzene | µg/L | **16** | - | **31** | - | **22** | - | **18** | - |
| | 1,4-Dioxane | µg/L | **15** | - | **30** | - | **24** | - | **23** | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | <0.61U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | <0.5U | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | **0.68J** | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | <0.46U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | <0.53U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | <0.6U | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | <0.45U | - | <0.45U | - | **0.63J** | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | <0.25U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | <0.41U | - | <0.41U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | <0.38U | - | <0.38U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | <0.28U | - | <0.28U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | <0.73U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | <100U | - | <100U | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | <0.44U | - | <0.44U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | <0.52U | - | <0.52U | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | <1.8U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <0.42U | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | Carbazole | µg/L | <0.3U | - | <0.30U | - | <0.3U | - | <0.3U | - |
| | Chrysene | µg/L | <0.33U | - | <0.33U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | <0.22U | - | <0.22U | - | <0.22U | - | **0.42J** | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | <0.31U | - | <0.31U | - | <0.31U | - | <10U | - |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | <0.47U | - | <0.47U | - | <0.47U | - |

**MW-6A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/22/2019 | 10/7/2019 | 4/29/2020 | 10/19/2020 | 4/26/2021 | 10/25/2021 | 4/20/2022 | 10/25/2022 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Fluoranthene | µg/L | <0.4U | - | <0.40U | - | <0.4U | - | <0.4U | - |
| | Fluorene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | <0.68U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | Hexachloroethane | µg/L | <0.59U | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Isophorone | µg/L | <0.43U | - | <0.43U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | <0.76U | - | <0.76U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.29U | - | <0.29U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | <0.54U | - | <0.54U | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - | <2.2UJ | - |
| | Phenanthrene | µg/L | <0.44U | - | <0.44U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | <0.39U | - | <0.39U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | **42** | - | **82** | - | **61** | - | **56** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | **2J** | **5.3J** | **2.4J** | **8.9** | **1.5J** | **1J** | **1.4J** | **3J** |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.84U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.92U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **37** | **39** | **34** | **30** | **31** | **27** | **27** | **18** |
| | 1,1-Dichloroethene | µg/L | **0.5J** | <1.2U | **0.49J** | **1.7J** | **0.49J** | <0.29U | **0.31J** | **0.58J** |
| | 1,2-Dichlorobenzene | µg/L | **6.9** | **9.4J** | **7.4** | **9.3** | **7.6** | **6.6** | **5.7** | **5.8** |
| | 1,2-Dichloroethane | µg/L | **0.73J** | **1.1J** | **0.64J** | **0.72J** | **0.65J** | **0.51J** | **0.52J** | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <2.9U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **5.4** | **6.2J** | **5.2** | **5.1** | **5.2** | **4.8J** | **4.8J** | **3.7J** |
| | 1,4-Dichlorobenzene | µg/L | **31** | **39** | **31** | **33** | **30** | **25** | **24** | **22** |
| | 2-Butanone | µg/L | <1.3U | <5.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <5U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <8.4U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <12U | <3.0U | <3.0U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | **0.74J** | <1.6U | **0.96J** | **1.2J** | **1.1J** | **0.95J** | **0.9J** | **0.9J** |
| | Dichlorobromomethane | µg/L | <0.39U | <1.6U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <1U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <2.8U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.76U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <1.1U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **16** | **22** | **18** | **17** | **17** | **14** | **14** | **12** |
| | Chlorodibromomethane | µg/L | <0.32U | <1.3U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | **7.4** | **6.2J** | **5.2** | **3.2J** | **4.4J** | <0.32U | **3.4J** | <0.32U |
| | Chloroform | µg/L | **1.1J** | **3.2J** | **1.4J** | **3.2J** | **0.82J** | **0.6J** | **0.59J** | **1.3J** |
| | Chloromethane | µg/L | <0.35U | <1.4U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **36** | **69** | **49** | **93** | **42** | **33** | **30** | **53** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <1.4U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <1.8U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <3U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <2.9U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **51** | **150** | **75** | **220** | **67** | **40** | **39** | **120** |
| | Tetrachloroethene | µg/L | **1.3J** | **3.8J** | **1.6J** | **6.6** | **1.6J** | **1J** | **1.1J** | **3.6J** |
| | Toluene | µg/L | <0.51U | <2U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <3.6U | <0.90U | <0.90U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <1.5U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | **14** | **21** | **14** | **21** | **12** | **13** | **11** | **9.7** |
| | Total Xylenes | µg/L | <0.66U | <2.6U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **220** | **380** | **250** | **460** | **230** | **170** | **170** | **260** |

**MW-6A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/24/2023 | 10/30/2023 | 4/30/2024 | 10/28/2024 | 4/21/2025 | 10/22/2025 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **139** | **143** | **136J-** | **103** | **108** | **129** |
| | Ammonia | mg/L | **0.45** | **0.26** | **0.45** | **0.38** | **0.4** | **0.3J+** |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.05U | <0.02U | <0.02U | <0.02U | <0.02U |
| | Sulfate | mg/L | **15.8** | **14.5** | **9.3** | **20.6** | **18.8** | **19** |
| | Total Organic Carbon | mg/L | **1.2** | **1.3** | **2.5** | **2.3** | **4.4** | **4.1** |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **52J** | **45J** | **50J** | <36U | <71U | **47J** |
| | Manganese | µg/L | **9,100** | **8,800** | **10,000** | **7,400** | **9,100** | **7,900** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **5.9** | - | **3.2** | - | **4.1J+** | - |
| | 1,2-Dichlorobenzene | µg/L | **6.2** | - | **3.5** | - | **3.8** | - |
| | 1,3-Dichlorobenzene | µg/L | **4.2** | - | **2.9** | - | **2.9** | - |
| | 1,4-Dichlorobenzene | µg/L | **24** | - | **13** | - | **13** | - |
| | 1,4-Dioxane | µg/L | **26** | - | **16** | - | **16** | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | <2.2UJ | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | <0.48U | - | <0.48UJ | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | **0.75J** | - | <0.45U | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | <0.41U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | <0.38U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | <0.28U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | <0.35UJ | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | <100U | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | <0.44U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | <0.4UJ | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | <0.52U | - | <0.52UJ | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | Carbazole | µg/L | <0.3U | - | <0.3U | - | <0.3UJ | - |
| | Chrysene | µg/L | <0.33U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | <0.22U | - | <0.22U | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | **0.34J** | - | <0.31U | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | <0.47U | - | <0.47U | - |

**MW-6A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A | MW-6A |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/24/2023 | 10/30/2023 | 4/30/2024 | 10/28/2024 | 4/21/2025 | 10/22/2025 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluoranthene | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | Fluorene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | <0.59UJ | - | <0.59U | - |
| | Hexachloroethane | µg/L | <0.59U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | <0.47UJ | - | <0.47U | - |
| | Isophorone | µg/L | <0.43U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | <0.76U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.29U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | <0.54U | - | <0.54UJ | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - |
| | Phenanthrene | µg/L | <0.44U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | <0.39U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | **68** | - | **39** | - | **40** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | **3.7J** | **1.2J** | <0.82U | **4.9J** | **1.9J** | **2.8J** |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **23** | **14** | **20** | **13** | **13** | **9.3** |
| | 1,1-Dichloroethene | µg/L | **1.2J** | <0.29U | <0.29UJ | **0.83J** | <0.29U | **0.51J** |
| | 1,2-Dichlorobenzene | µg/L | **6.9** | **5.1** | **4.8J** | **6.4** | **5** | **4.8J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | **0.33J** | **0.33J** | **0.36J** | <0.21U | **0.27J** |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **5** | **3.8J** | **4.2J** | **4.4J** | **4J** | **3.3J** |
| | 1,4-Dichlorobenzene | µg/L | **29** | **19** | **20** | **22** | **19** | **17** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | **1J** | **0.66J** | **0.61J** | **0.78J** | <0.41U | **0.64J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27UJ | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **15** | **11** | **13** | **14** | **11** | **12** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | **1.3J** | <0.32U | **1.4J** | **0.92J** | <0.32U | <0.32U |
| | Chloroform | µg/L | **1.7J** | **0.65J** | <0.34U | **1.6J** | **0.65J** | **0.87U** |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **70** | **30** | **12** | **65** | **36** | **41** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **150** | **56** | **6.1** | **130** | **81** | **87** |
| | Tetrachloroethene | µg/L | **3.9J** | **1.3J** | <0.36U | **5.3** | **2.2J** | **3.9J** |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | **13** | **4.3J** | **2.4J** | **7.8** | **4.4J** | **4.1J** |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **330** | **150** | **85** | **280** | **180** | **190** |

**MW-6B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 7/24/2008 | 10/22/2008 | 4/27/2009 | 7/17/2009 | 10/29/2009 | 5/6/2010 | 7/22/2010 | 10/28/2010 |
| | Parameters | Units | | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | - | - | - | - | - | **90.1** | - | - | - |
| | Ammonia | mg/L | - | - | - | - | - | - | - | - | - |
| | Nitrate+Nitrite | mg/L | - | - | - | - | - | - | - | - | - |
| | Sulfate | mg/L | - | - | - | - | - | - | - | - | - |
| | Total Organic Carbon | mg/L | - | - | - | - | - | - | - | - | - |
| Metals | Arsenic | µg/L | **22.9** | **14.1** | **14.6** | **26.1** | **24.1** | **20.5** | **21.2** | **17.5** | **15.2** |
| | Iron | µg/L | **8,140** | **4,510** | **3,560J** | **10,500** | **10,600** | **7,600** | **10,300** | **6,550** | **4,050** |
| | Manganese | µg/L | **10,800** | **13,600J** | **7,900** | **15,200** | **16,600** | **18,200** | **12,800** | **13,500** | **11,600J** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | - | - | - | - | - | - | - | - |
| | 1,2-Dichlorobenzene | µg/L | - | - | - | - | - | - | - | - | - |
| | 1,3-Dichlorobenzene | µg/L | - | - | - | - | - | - | - | - | - |
| | 1,4-Dichlorobenzene | µg/L | - | - | - | - | - | - | - | - | - |
| | 1,4-Dioxane | µg/L | - | - | - | - | - | - | - | - | - |
| | 2,4,5-Trichlorophenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 2,4,6-Trichlorophenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 2,4-Dichlorophenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 2,4-Dimethylphenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 2,4-Dinitrophenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 2,4-Dinitrotoluene | µg/L | - | - | - | - | - | - | - | - | - |
| | 2,6-Dinitrotoluene | µg/L | - | - | - | - | - | - | - | - | - |
| | 2-Chloronaphthalene | µg/L | - | - | - | - | - | - | - | - | - |
| | 2-Chlorophenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 2-Methylnaphthalene | µg/L | - | - | - | - | - | - | - | - | - |
| | 2-Methylphenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 2-Nitroaniline | µg/L | - | - | - | - | - | - | - | - | - |
| | 2-Nitrophenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 3,3-Dichlorobenzidine | µg/L | - | - | - | - | - | - | - | - | - |
| | 3-Nitroaniline | µg/L | - | - | - | - | - | - | - | - | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | - | - | - | - | - | - | - | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 4-Chloroaniline | µg/L | - | - | - | - | - | - | - | - | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | - | - | - | - | - | - | - | - |
| | 4-Methylphenol | µg/L | - | - | - | - | - | - | - | - | - |
| | 4-Nitroaniline | µg/L | - | - | - | - | - | - | - | - | - |
| | 4-Nitrophenol | µg/L | - | - | - | - | - | - | - | - | - |
| | Acenaphthene | µg/L | - | - | - | - | - | - | - | - | - |
| | Acenaphthylene | µg/L | - | - | - | - | - | - | - | - | - |
| | Anthracene | µg/L | - | - | - | - | - | - | - | - | - |
| | Benz(a)anthracene | µg/L | - | - | - | - | - | - | - | - | - |
| | Benzo(a)pyrene | µg/L | - | - | - | - | - | - | - | - | - |
| | Benzo(b)fluoranthene | µg/L | - | - | - | - | - | - | - | - | - |
| | Benzo(g,h,i)perylene | µg/L | - | - | - | - | - | - | - | - | - |
| | Benzo(k)fluoranthene | µg/L | - | - | - | - | - | - | - | - | - |
| | Benzoic acid | µg/L | - | - | - | - | - | - | - | - | - |
| | Benzyl alcohol | µg/L | - | - | - | - | - | - | - | - | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | - | - | - | - | - | - | - | - |
| | Bis(2-chloroethyl)ether | µg/L | - | - | - | - | - | - | - | - | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | - | - | - | - | - | - | - | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | - | - | - | - | - | - | - | - |
| | Butyl benzyl phthalate | µg/L | - | - | - | - | - | - | - | - | - |
| | Carbazole | µg/L | - | - | - | - | - | - | - | - | - |
| | Chrysene | µg/L | - | - | - | - | - | - | - | - | - |
| | Dibenz(a,h)anthracene | µg/L | - | - | - | - | - | - | - | - | - |
| | Dibenzofuran | µg/L | - | - | - | - | - | - | - | - | - |
| | Diethyl phthalate | µg/L | - | - | - | - | - | - | - | - | - |
| | Dimethyl phthalate | µg/L | - | - | - | - | - | - | - | - | - |
| | Di-n-butyl phthalate | µg/L | - | - | - | - | - | - | - | - | - |

**MW-6B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 7/24/2008 | 10/22/2008 | 4/27/2009 | 7/17/2009 | 10/29/2009 | 5/6/2010 | 7/22/2010 | 10/28/2010 |
| | Parameters | Units | | | | | | | | | |
| Semivolatile Organics | Di-n-octyl phthalate | µg/L | - | - | - | - | - | - | - | - | - |
| | Fluoranthene | µg/L | - | - | - | - | - | - | - | - | - |
| | Fluorene | µg/L | - | - | - | - | - | - | - | - | - |
| | Hexachlorobenzene | µg/L | - | - | - | - | - | - | - | - | - |
| | Hexachlorobutadiene | µg/L | - | - | - | - | - | - | - | - | - |
| | Hexachlorocyclopentadiene | µg/L | - | - | - | - | - | - | - | - | - |
| | Hexachloroethane | µg/L | - | - | - | - | - | - | - | - | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | - | - | - | - | - | - | - | - |
| | Isophorone | µg/L | - | - | - | - | - | - | - | - | - |
| | Naphthalene | µg/L | - | - | - | - | - | - | - | - | - |
| | Nitrobenzene | µg/L | - | - | - | - | - | - | - | - | - |
| | N-nitrosodi-n-propylamine | µg/L | - | - | - | - | - | - | - | - | - |
| | N-Nitrosodiphenylamine | µg/L | - | - | - | - | - | - | - | - | - |
| | Pentachlorophenol | µg/L | - | - | - | - | - | - | - | - | - |
| | Phenanthrene | µg/L | - | - | - | - | - | - | - | - | - |
| | Phenol | µg/L | - | - | - | - | - | - | - | - | - |
| | Pyrene | µg/L | - | - | - | - | - | - | - | - | - |
| | Total SVOCS | µg/L | - | - | - | - | - | - | - | - | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | <5U | <5U | **2.2J** | **0.85J** | <0.26U | <5U | <5U | <5U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U | <5U | <5U | <5U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <5U | <0.23U | <0.23U | <0.23U | <5U | <5U | <5U |
| | 1,1-Dichloroethane | µg/L | **8.1** | **9.2** | **3.2J** | **42** | **53** | **29** | **14** | **16** | **11** |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <5U | <0.29U | <0.29U | <0.29U | <5U | <5U | <5U |
| | 1,2-Dichlorobenzene | µg/L | **2J** | **2.3J** | **0.86J** | **4.1J** | **4.3J** | **3.1J** | **3.6J** | **2.9J** | **1.9J** |
| | 1,2-Dichloroethane | µg/L | <5U | <5U | <5U | **0.38J** | <0.21U | <0.21U | <5U | <5U | <5U |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <5U | **0.32J** | <0.32U | <0.33U | <5U | <5U | <5U |
| | 1,3-Dichlorobenzene | µg/L | **1.5J** | **1.7J** | **0.94J** | **3.1J** | **3J** | **2.2J** | **2.8J** | **2.5J** | **1.6J** |
| | 1,4-Dichlorobenzene | µg/L | **10** | **11** | **5.5** | **18** | **18** | **14** | **16** | **14** | **9.6** |
| | 2-Butanone | µg/L | <5U | <5U | <5U | <1.3U | <1.3U | <1.3U | <5U | <5U | <5U |
| | 2-Hexanone | µg/L | <5U | <5U | <5U | <1.2U | <1.2U | <1.2U | <5U | <5U | <5U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <5U | <0.91U | <0.91U | <0.91U | <5U | <5U | <5U |
| | Acetone | µg/L | <10U | <10U | <10U | <1.3U | <1.3U | <1.3U | <10U | <10U | <10U |
| | Benzene | µg/L | **0.96J** | <5U | <5U | **3.3J** | **3.4J** | **0.77J** | **1.6J** | <5U | **0.66J** |
| | Dichlorobromomethane | µg/L | <5U | <5U | <5U | <0.39U | <0.39U | <0.39U | <5U | <5U | <5U |
| | Bromoform | µg/L | <5U | <5U | <5U | <0.26U | <0.26U | <0.26U | <5U | <5U | <5U |
| | Bromomethane | µg/L | <5U | <5U | <5U | <0.28U | <0.28U | <0.28U | <5U | <5U | <5U |
| | Carbon Disulfide | µg/L | <5U | <5U | <5U | <0.19U | <0.19U | <0.19U | <5U | <5U | <5U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <5U | <0.27U | <0.27U | <0.27U | <5U | <5U | <5U |
| | Chlorobenzene | µg/L | **3.6J** | **3.7J** | **1.1J** | **10** | **12** | **8.6** | **7.9** | **6.6** | **4.5J** |
| | Chlorodibromomethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U | <5U | <5U | <5U |
| | Chloroethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | **1.7J** | **2.6J** | <5U | <5U |
| | Chloroform | µg/L | <5U | <5U | <5U | <0.34U | <0.34U | <0.34U | <5U | <5U | <5U |
| | Chloromethane | µg/L | <5U | <5U | <5U | <0.35U | <0.35U | <0.35U | <5U | <5U | <5U |
| | cis-1,2-Dichloroethene | µg/L | <1U | **1.1** | <1U | **0.58J** | <0.38U | <0.38U | <1U | **1.2** | <1U |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U | <5U | <5U | <5U |
| | Methylene Chloride | µg/L | <5U | <5U | <5U | <0.44U | <0.44U | <0.44U | <5U | <5U | <5U |
| | Ethylbenzene | µg/L | <5U | <5U | <5U | **1.5J** | <0.18U | <0.18U | <5U | <5U | <5U |
| | Styrene | µg/L | <5U | <5U | <5U | <0.18U | <0.18U | <0.18U | <5U | <5U | <5U |
| | Trichloroethene | µg/L | **0.73J** | **0.82J** | <5U | **0.43J** | <0.46U | <0.46U | <5U | <5U | <5U |
| | Tetrachloroethene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U | <5U | <5U | <5U |
| | Toluene | µg/L | <5U | <5U | <5U | <0.51U | <0.51U | <0.51U | <5U | <5U | <5U |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.13U | <0.42U | <0.42U | <1U | <1U | <1U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.37U | <0.37U | <0.37U | <5U | <5U | <5U |
| | Vinyl Chloride | µg/L | <5U | **1.1J** | <5U | **1.2J** | **0.54J** | <0.24U | <5U | **1.8J** | **0.94J** |
| | Total Xylenes | µg/L | <5U | <5U | <5U | **1.4J** | <0.66U | <0.66U | <5U | <5U | <5U |
| | Total VOCS | µg/L | **27** | **31** | **12** | **89** | **96** | **60** | **49** | **45** | **31** |

**MW-6B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/26/2011 | 10/19/2011 | 4/30/2012 | 11/20/2012 | 4/17/2013 | 10/22/2013 | 4/22/2014 | 10/21/2014 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **94.1** | **71.9J** | **111J** | **88.3J** | **91.5** | **84.5J** | - | **64.8** |
| | Ammonia | mg/L | **1.4** | **1.8** | **1.9** | **1.8** | **1.4** | **1.1J** | - | **1.2** |
| | Nitrate+Nitrite | mg/L | <0.05U | <0.05UJ | <0.05U | **0.03J** | <0.02U | **0.033J** | - | <0.02UJ |
| | Sulfate | mg/L | **13.2J** | **12.7J** | **9.2J** | **7.4** | <7.9U | <9.6U | - | **9.9** |
| | Total Organic Carbon | mg/L | **1.6J** | **1.4** | **0.88J** | <1U | **0.95J** | **0.77J** | - | **1** |
| Metals | Arsenic | µg/L | **26** | **22** | **20** | **25** | <5.6U | **16** | - | **15** |
| | Iron | µg/L | **10,100** | **8900** | **8700J** | **8300** | **280** | **3,700** | - | **3,300** |
| | Manganese | µg/L | **10,900** | **10,100** | **17,400** | **14,500** | **11,100** | **10,200** | - | **9,400** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **1.4J** | **1.4J** | **2** | **1.7J** | **2** | - | **1.4J** | - |
| | 1,2-Dichlorobenzene | µg/L | **2** | **1.3J** | **4.3** | **3.5** | **4.3** | - | **2.1** | - |
| | 1,3-Dichlorobenzene | µg/L | **1.3J** | **2.5J** | **2.9** | **2.4** | **3.4** | - | **2** | - |
| | 1,4-Dichlorobenzene | µg/L | **8.7** | **5.3** | **18** | **17** | **19** | - | **10** | - |
| | 1,4-Dioxane | µg/L | **4.2J** | **3.2J** | **9J** | **15** | **14** | - | **4J** | - |
| | 2,4,5-Trichlorophenol | µg/L | <9.5U | <9.8U | <9.6U | <9.6U | <0.46U | - | <0.44U | - |
| | 2,4,6-Trichlorophenol | µg/L | <3U | <3U | <3U | <3U | <0.58U | - | <0.56U | - |
| | 2,4-Dichlorophenol | µg/L | <2.7U | <2.7U | <2.7U | <2.7U | <0.48U | - | <0.47U | - |
| | 2,4-Dimethylphenol | µg/L | <2.7U | <2.7U | <2.7U | <2.7U | <0.47U | - | <0.46U | - |
| | 2,4-Dinitrophenol | µg/L | <41U | <42U | <41U | <41U | <2.1U | - | <2U | - |
| | 2,4-Dinitrotoluene | µg/L | <5.5UJ | <5.7U | <5.6U | <5.6U | <0.42U | - | <0.41U | - |
| | 2,6-Dinitrotoluene | µg/L | <1.8U | <1.9U | <1.8U | <1.8U | <0.38U | - | <0.37U | - |
| | 2-Chloronaphthalene | µg/L | <1.8U | <1.9U | <1.8U | <1.8U | <0.44U | - | <0.42U | - |
| | 2-Chlorophenol | µg/L | <3.1U | <3.2U | <3.2U | <3.2U | <0.5U | - | <0.49U | - |
| | 2-Methylnaphthalene | µg/L | <9.5U | <9.8U | <9.6U | <9.6U | <0.57U | - | <0.55U | - |
| | 2-Methylphenol | µg/L | <9.5U | <9.8U | <9.6U | <9.6U | <0.38U | - | <0.37U | - |
| | 2-Nitroaniline | µg/L | <9.5U | <9.8U | <9.6U | <9.6U | <0.4U | - | <0.38U | - |
| | 2-Nitrophenol | µg/L | <3.4U | <3.5U | <3.5U | <3.5U | <0.46U | - | <0.44U | - |
| | 3,3-Dichlorobenzidine | µg/L | <16U | <17U | <16U | <16U | <0.38U | - | <0.37U | - |
| | 3-Nitroaniline | µg/L | <9.5U | <9.8U | <9.6U | <9.6U | <0.46U | - | <0.44UJ | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <23U | <24U | <23U | <23U | <2.1U | - | <2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <1.7U | <1.8U | <1.7U | <1.7U | <0.43U | - | <0.41U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <2.9UJ | <2.9U | <2.9U | <2.9U | <0.43U | - | <0.41U | - |
| | 4-Chloroaniline | µg/L | <1.9U | <2U | <1.9U | <1.9U | <0.56U | - | <0.54UJ | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <4.1U | <4.2U | <4.1U | <4.1U | <0.33U | - | <0.32U | - |
| | 4-Methylphenol | µg/L | <9.5U | <9.8U | <9.6U | <9.6UJ | <0.34U | - | <0.33U | - |
| | 4-Nitroaniline | µg/L | <9.5U | <9.8U | <9.6U | <9.6U | <0.24U | - | <0.23U | - |
| | 4-Nitrophenol | µg/L | <2.9UJ | <2.9U | <2.9U | <2.9U | <1.4U | - | <1.4U | - |
| | Acenaphthene | µg/L | <1.7U | <1.8U | <1.7U | <1.7U | <0.39U | - | <0.38U | - |
| | Acenaphthylene | µg/L | <3.3U | <3.4U | <3.4U | <3.4U | <0.36U | - | <0.35U | - |
| | Anthracene | µg/L | <1.7U | <1.8U | <1.7U | <1.7U | <0.27U | - | <0.26U | - |
| | Benz(a)anthracene | µg/L | <7.4U | <7.6U | <7.5U | <7.5U | <0.34U | - | <0.33U | - |
| | Benzo(a)pyrene | µg/L | <2.5U | <2.5U | <2.5U | <2.5U | <0.45U | - | <0.43U | - |
| | Benzo(b)fluoranthene | µg/L | <9.5U | <9.8U | <9.6U | <9.6U | <0.32U | - | <0.31U | - |
| | Benzo(g,h,i)perylene | µg/L | <3.9U | <4U | <3.9U | <3.9U | <0.33U | - | <0.32UJ | - |
| | Benzo(k)fluoranthene | µg/L | <2.4U | **1.4J** | <2.4U | <2.4U | <0.69U | - | <0.67U | - |
| | Benzoic acid | µg/L | <95U | <98U | <96U | <96U | <95U | - | <92U | - |
| | Benzyl alcohol | µg/L | <6.7U | <6.9U | <6.7U | <6.7U | <0.42U | - | <1.8U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <5U | <5.2U | <5.1U | <5.1U | <0.33U | - | <0.32U | - |
| | Bis(2-chloroethyl)ether | µg/L | <5.4U | <5.6U | <5.5U | <5.5U | <0.38U | - | <0.37U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <5.4U | <5.6UJ | <5.5U | <5.5U | <0.49U | - | <0.48U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <9.5UJ | <9.8U | <9.6U | <9.6U | <1.7U | - | <1.6U | - |
| | Butyl benzyl phthalate | µg/L | <9.5U | <9.8U | <9.6U | <9.6U | <0.4U | - | <0.38U | - |
| | Carbazole | µg/L | <9.5U | <9.8U | <9.6U | <9.6UJ | <0.28U | - | <0.27U | - |
| | Chrysene | µg/L | <2.4U | <2.5U | <2.4U | <2.4U | <0.31U | - | <0.3U | - |
| | Dibenz(a,h)anthracene | µg/L | <9.5U | <9.8U | <9.6U | <9.6U | <0.4U | - | <0.38U | - |
| | Dibenzofuran | µg/L | <9.5U | <9.8U | <9.6U | <9.6U | <0.48U | - | <0.47U | - |
| | Diethyl phthalate | µg/L | <9.5U | <9.8U | <9.6U | <9.6U | <0.21U | - | <0.2U | - |
| | Dimethyl phthalate | µg/L | <9.5U | <9.8U | <9.6U | <9.6U | <0.34U | - | <0.33U | - |
| | Di-n-butyl phthalate | µg/L | <9.5U | **0.32J** | <9.6U | <9.6U | <0.29U | - | <0.28U | - |

**MW-6B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/26/2011 | 10/19/2011 | 4/30/2012 | 11/20/2012 | 4/17/2013 | 10/22/2013 | 4/22/2014 | 10/21/2014 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Di-n-octyl phthalate | µg/L | <9.5U | <9.8U | <9.6U | **0.89J** | <0.45U | - | <0.43U | - |
| | Fluoranthene | µg/L | <2.1U | <2.2U | <2.1U | <2.1U | <0.38U | - | <0.37U | - |
| | Fluorene | µg/L | <1.8U | <1.9U | <1.8U | <1.8U | <0.34U | - | <0.33U | - |
| | Hexachlorobenzene | µg/L | <2.1U | <2.2U | <2.1U | <2.1U | <0.48U | - | <0.47U | - |
| | Hexachlorobutadiene | µg/L | <2.5U | <2.5U | <2.5U | <2.5U | <0.64U | - | <0.62U | - |
| | Hexachlorocyclopentadiene | µg/L | <9.5U | <9.8U | <9.6U | <9.6U | <0.56U | - | <0.54U | - |
| | Hexachloroethane | µg/L | <2.7U | <2.8U | <2.7U | <2.7U | <0.56U | - | <0.54U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4.6U | <4.7U | <4.6U | <4.6U | <0.45U | - | <0.43U | - |
| | Isophorone | µg/L | <2.1U | <2.2U | <2.1U | <2.1U | <0.41U | - | <0.39U | - |
| | Naphthalene | µg/L | <1.5U | <1.6U | <1.5U | <1.5U | <0.72U | - | <0.7U | - |
| | Nitrobenzene | µg/L | <1.9U | <2U | <1.9U | <1.9U | <0.28U | - | <0.27U | - |
| | N-nitrosodi-n-propylamine | µg/L | <4.8U | <4.9U | <4.8U | <4.8U | <0.51U | - | <0.49U | - |
| | N-Nitrosodiphenylamine | µg/L | <1.8U | <1.9U | <1.8U | <1.8U | <0.48U | - | <0.47U | - |
| | Pentachlorophenol | µg/L | <4.9UJ | <5U | <4.9U | <4.9U | <2.1U | - | <2U | - |
| | Phenanthrene | µg/L | <4.8U | <4.9U | <4.8U | <4.8U | <0.42U | - | <0.4U | - |
| | Phenol | µg/L | <2.4U | <2.5U | <2.4U | <2.4U | <0.37U | - | <0.36U | - |
| | Pyrene | µg/L | <1.8U | <1.9U | <1.8U | <1.8U | <0.32U | - | <0.31U | - |
| | Total SVOCS | µg/L | **18** | **16** | **37** | **41** | **43** | - | **20** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | **1J** | <5U | <5U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <5U | <5U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **13** | **12** | **33J** | **17** | **23** | **7.9** | **9** | **4.6J** |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <5U | <5U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **3.1J** | **1.5J** | **5.2J** | **5** | **5.3** | **1.8J** | **2.8J** | <0.79U |
| | 1,2-Dichloroethane | µg/L | <5U | <5U | **0.44J** | <5U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <5U | <5U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **2.5J** | **1.3J** | **3.7J** | **3.8J** | **4.1J** | **1.8J** | **2.5J** | **0.79J** |
| | 1,4-Dichlorobenzene | µg/L | **15** | **7.2** | **23** | **23** | **25** | **10** | **14** | **5.2** |
| | 2-Butanone | µg/L | <5U | <5U | <5U | <5U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <5U | <5U | <5U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <5U | <5U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <10U | <10U | <10U | <10U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | **2J** | **0.92J** | **4J** | **2.4J** | **2.2J** | <0.41U | **1J** | <0.41U |
| | Dichlorobromomethane | µg/L | <5U | <5U | <5U | <5U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <5U | <5U | <5U | <5U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <5U | <5U | <5U | <5U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <5U | <5U | <5U | <5U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <5U | <5U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **7.6** | **3.8J** | **18J** | **15** | **14** | **3.1J** | **7.5** | **1.1J** |
| | Chlorodibromomethane | µg/L | <5U | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | **5.2** | <5U | **14** | <5U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <5U | <5U | <5U | <5U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <5U | <5U | <5U | <5U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <1U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <5U | <5U | <5U | <5U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <5U | <5U | **2J** | <5U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <5U | <5U | <5U | <5U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **1.4J** | **0.89J** | <5U | <5U | **0.54J** | **0.73J** | <0.46U | **0.74J** |
| | Tetrachloroethene | µg/L | <5U | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <5U | <5U | <5U | <5UJ | **0.69J** | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <1U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <5U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <5U | <5U | <5U | <5U | <0.9U | <0.9U | <0.9U | <0.9UJ |
| | Total Xylenes | µg/L | <5U | <5U | <5U | <5U | <0.66U | <0.66U | **0.82J** | <0.66U |
| | Total VOCS | µg/L | **50** | **29** | **110** | **67** | **75** | **26** | **38** | **13** |

**MW-6B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/21/2015 | 10/20/2015 | 5/17/2016 | 10/28/2016 | 4/24/2017 | 10/18/2017 | 5/7/2018 | 10/16/2018 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **67.7J** | **47.9** | **59.6** | **44.8** | **45.2J+** | **32.5** | **32.6J+** | **35.6J+** |
| | Ammonia | mg/L | **1.9** | **0.97** | **1.6** | **0.84** | **1.5** | **0.97** | **1.5** | **1.6** |
| | Nitrate+Nitrite | mg/L | <0.02U | **0.028J** | <0.02U | **0.028J** | **0.039J** | <0.02U | **0.031J** | <0.02U |
| | Sulfate | mg/L | **10.9** | **8** | **30.9** | **11.4** | **29.4** | **21.8** | **29.9** | **33.7** |
| | Total Organic Carbon | mg/L | **1.5** | **0.84J** | **1.8** | <1U | **1.1** | **1** | **1.2** | **1.7** |
| Metals | Arsenic | µg/L | **80** | **60** | **33** | **12** | **35** | **18** | **21** | **24** |
| | Iron | µg/L | **16,400** | **9100** | **11,300** | **2700** | **12,700** | **7200** | **8000** | **9700** |
| | Manganese | µg/L | **9900J** | **6700** | **11,100** | **7200** | **9500** | **8200** | **9700** | **11,600** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **1.2J** | - | **2.1** | - | **1.9** | - | **1.4J** | - |
| | 1,2-Dichlorobenzene | µg/L | **1.8** | - | **1.5J** | - | **0.76J** | - | **0.49J** | - |
| | 1,3-Dichlorobenzene | µg/L | **1.7J** | - | **1.9** | - | **1.2J** | - | **0.79J** | - |
| | 1,4-Dichlorobenzene | µg/L | **8** | - | **7.1** | - | **3.9J** | - | **2.4J** | - |
| | 1,4-Dioxane | µg/L | **3.8J** | - | **3.2J** | - | **4.7J** | - | **6.7J** | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.45U | - | <0.46U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.57U | - | <0.58U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.48U | - | <0.49U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <0.47U | - | <0.48U | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | <2.1U | - | <2.1U | - | <2.2U | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.42U | - | <0.43U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.37U | - | <0.38U | - | <0.4U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | <0.43U | - | <0.44U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.5U | - | <0.5U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.56U | - | <0.57U | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | <0.37U | - | <0.38U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | <0.39U | - | <0.4U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.45U | - | <0.46U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.37U | - | <0.38U | - | <0.4U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | <0.45U | - | <0.46U | - | <0.48U | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.1U | - | <2.1U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.42U | - | <0.43U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.42U | - | <0.43U | - | <0.45U | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | <0.55U | - | <0.56U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.33U | - | <0.33U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | <0.34U | - | <0.34U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.23UJ | - | <0.24U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.4U | - | <1.4U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | <0.38U | - | <0.39U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | <0.36U | - | <0.36U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | <0.26U | - | <0.27U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.34U | - | <0.34U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.44U | - | <0.45U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.32U | - | <0.32U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.33U | - | <0.33U | - | <0.35U | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <0.68U | - | <0.69U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | <94U | - | - | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | <6.6U | - | <0.42U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.33U | - | <0.33U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.37U | - | <0.38U | - | <0.4U | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.49U | - | <0.5U | - | <0.52U | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.7U | - | <1.7U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <9.4U | - | <0.4U | - | <0.42U | - | <0.43U | - |
| | Carbazole | µg/L | <0.28U | - | <0.29U | - | <0.3U | - | <0.3U | - |
| | Chrysene | µg/L | <0.31U | - | <0.31U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.39U | - | <0.4U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.48U | - | <0.49U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | <0.21U | - | <0.21U | - | **0.32J** | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | <0.34U | - | <0.34U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | <0.29U | - | <0.3U | - | <0.31U | - | <0.31U | - |

**MW-6B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/21/2015 | 10/20/2015 | 5/17/2016 | 10/28/2016 | 4/24/2017 | 10/18/2017 | 5/7/2018 | 10/16/2018 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Di-n-octyl phthalate | µg/L | <0.44U | - | <0.45U | - | **0.67J** | - | <0.47U | - |
| | Fluoranthene | µg/L | <0.37U | - | <0.38U | - | <0.4U | - | <0.4U | - |
| | Fluorene | µg/L | <0.34U | - | <0.34U | - | <0.36U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | <0.48U | - | <0.49U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.64U | - | <0.65U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.55U | - | <0.56U | - | <0.59U | - | <0.59U | - |
| | Hexachloroethane | µg/L | <0.55U | - | <0.56U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.44U | - | <0.45U | - | <0.47U | - | <0.47U | - |
| | Isophorone | µg/L | <0.4U | - | <0.41U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | <0.71U | - | <0.72U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.27U | - | <0.28U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.51U | - | <0.51U | - | <0.54U | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | <0.48U | - | <0.49U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <2.1U | - | <2.1U | - | <2.2U | - | <2.2U | - |
| | Phenanthrene | µg/L | <0.41U | - | <0.42U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | <0.37U | - | <0.37U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | <0.32U | - | <0.32U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | **17** | - | **16** | - | **14** | - | **12** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82UJ | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **10** | **2.6J** | **5.7** | **1.3J** | **1.8J** | **0.7J** | **1.2J** | **2.3J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **2.4J** | <0.79U | **1.9J** | <0.79U | **0.99J** | <0.79U | <0.79U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21UJ | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **2.2J** | <0.78U | **2.3J** | <0.78U | **1.5J** | <0.78U | **0.89J** | **0.84J** |
| | 1,4-Dichlorobenzene | µg/L | **11** | **4J** | **9.9** | **3J** | **4.7J** | **2.6J** | **3J** | **3.3J** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | **7.9J** | <3U | **4.5J** | <3U | <3U | <3U |
| | Benzene | µg/L | **0.87J** | <0.41U | **0.51J** | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **5.6** | <0.75U | **3.7J** | <0.75U | **1.2J** | <0.75U | **0.75J** | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32UJ | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | **1.2** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | **1.5J** | <0.46U | **1.2J** | **1.1J** |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | **1.5J** |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **33** | **6.6** | **32** | **4.3** | **17** | **3.3** | **7.1** | **11** |

**MW-6B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/22/2019 | 10/7/2019 | 4/30/2020 | 10/19/2020 | 4/26/2021 | 10/25/2021 | 4/20/2022 | 10/25/2022 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **57** | **49.1** | **81.9** | **71.7** | **64.4** | **50.9** | **79** | <50U |
| | Ammonia | mg/L | **1.6** | **1.1** | **3.6** | **3.4** | **1.4** | **1.7** | **1.7** | **1.2** |
| | Nitrate+Nitrite | mg/L | <0.02U | **0.033U** | **0.1** | **0.095** | **0.98** | <0.056UJ | <0.02U | <0.02U |
| | Sulfate | mg/L | **28.7** | **23.7** | **42.8** | **42.7** | **23.6** | **18.8** | **18.1** | **145** |
| | Total Organic Carbon | mg/L | **1.7J** | **0.6J** | **5.9** | **4.6** | **1.6** | **1.4** | **2.5** | **1.2** |
| Metals | Arsenic | µg/L | **23** | **14** | **79** | **71** | **29** | **27** | **22** | **16** |
| | Iron | µg/L | **10,800** | **4200** | **47,900** | **47000** | **11,900** | **9,900** | **12,600** | **4500** |
| | Manganese | µg/L | **10,900** | **12,900** | **12,200** | **11,700** | **13,100** | **11,400** | **11,700** | **10,900** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **1.1J** | - | **2.4** | - | **2.2** | - | **2.5** | - |
| | 1,2-Dichlorobenzene | µg/L | <0.4U | - | **1.4J** | - | **1.4J** | - | **1.8J** | - |
| | 1,3-Dichlorobenzene | µg/L | **0.54J** | - | **2.0J** | - | **2.1** | - | **2.4** | - |
| | 1,4-Dichlorobenzene | µg/L | **1.6J** | - | **7.2** | - | **6.7** | - | **7.1** | - |
| | 1,4-Dioxane | µg/L | **6.4J** | - | **20** | - | **13** | - | **17** | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | <0.61U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | <0.5U | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | <0.46U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | <0.53U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | <0.6U | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | **1J** | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | <0.45U | - | <0.45U | - | **0.63J** | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | <0.25U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | <0.41U | - | <0.41U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | <0.38U | - | <0.38U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | <0.28U | - | <0.28U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | <0.73U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | <100U | - | <100U | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | <0.44U | - | <0.44U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | <0.52U | - | <0.52U | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | <1.8U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <0.46U | - | <0.42U | - | **0.43J** | - | <0.42U | - |
| | Carbazole | µg/L | <0.3U | - | <0.30U | - | <0.3U | - | <0.3U | - |
| | Chrysene | µg/L | <0.33U | - | <0.33U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | <0.22U | - | <0.22U | - | <0.22U | - | **0.39J** | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | <0.31U | - | <0.31U | - | <0.31U | - | <10U | - |

**MW-6B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/22/2019 | 10/7/2019 | 4/30/2020 | 10/19/2020 | 4/26/2021 | 10/25/2021 | 4/20/2022 | 10/25/2022 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Di-n-octyl phthalate | µg/L | <0.47U | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Fluoranthene | µg/L | <0.4U | - | <0.40U | - | <0.4U | - | <0.4U | - |
| | Fluorene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | <0.68U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | Hexachloroethane | µg/L | <0.59U | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Isophorone | µg/L | <0.43U | - | <0.43U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | <0.76U | - | <0.76U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.29U | - | <0.29U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | <0.54U | - | <0.54U | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - | <2.2UJ | - |
| | Phenanthrene | µg/L | <0.44U | - | <0.44U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | <0.39U | - | <0.39U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | **11** | - | **33** | - | **26** | - | **33** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **0.47J** | <0.38U | **3.2J** | **2.0J** | **4.3J** | **2.4J** | **4.1J** | **1.4J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | <0.79U | **1.3J** | <0.79U | **2J** | **1.4J** | **1.9J** | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.78U | <0.78U | **1.8J** | <0.78U | **3J** | **2.3J** | **3.1J** | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | **2.1J** | **1.8J** | **6.8** | **2.6J** | **9.9** | **6.7** | **8.6** | **2.5J** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3.0U | <3.0U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | **0.52J** | <0.41U | **0.83J** | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | <0.75U | **2.9J** | <0.75U | **7** | **5.1** | **13** | **0.75J** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35UJ | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | **0.5J** | <0.46U | **0.72J** | **0.95J** | **0.67J** | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9UJ | <0.90U | <0.90U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.90U | <0.90U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **2.6** | **1.8** | **17** | **4.6** | **28** | **19** | **33** | **4.7** |

**MW-6B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/24/2023 | 10/30/2023 | 4/30/2024 | 10/28/2024 | 4/21/2025 | 10/22/2025 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **73.4** | **49.6** | **42.5J-** | **42.7** | **54.4** | **48.7** |
| | Ammonia | mg/L | **1.7** | **1.8** | **1.4** | **0.73** | **1.4** | **0.97** |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.05U | **0.032J** | <0.02U | **0.027J** | <0.02U |
| | Sulfate | mg/L | **17.6** | **11.5** | **7** | **12.5** | **13.7** | **11.1** |
| | Total Organic Carbon | mg/L | **0.96J** | **0.55J** | **1.5** | <0.43U | **2** | <0.43U |
| Metals | Arsenic | µg/L | **30** | **23** | **66J-** | **22** | **50** | **9J** |
| | Iron | µg/L | **12,900** | **11,100** | **15,800** | **6,100** | **15,700** | **3,700** |
| | Manganese | µg/L | **13,100** | **15,900** | **8,000** | **7,900** | **13,300** | **8,600** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **3** | - | **0.67J** | - | <1.1U | - |
| | 1,2-Dichlorobenzene | µg/L | **1.2J** | - | <0.4U | - | **0.64J** | - |
| | 1,3-Dichlorobenzene | µg/L | **1.7J** | - | **0.49J** | - | **0.79J** | - |
| | 1,4-Dichlorobenzene | µg/L | **4.8** | - | **1.3J** | - | **2.3J** | - |
| | 1,4-Dioxane | µg/L | **13** | - | **1.3J** | - | **6.8J** | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | <2.2UJ | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | <0.48U | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | <0.41U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | <0.38U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | <0.28U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | <0.35UJ | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | <100U | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | **0.61J** | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | <0.4UJ | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | <0.52U | - | <0.52UJ | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | Carbazole | µg/L | <0.3U | - | <0.3U | - | <0.3U | - |
| | Chrysene | µg/L | <0.33U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | <0.22U | - | <0.22U | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | <0.31U | - | <0.31U | - | <0.31U | - |

**MW-6B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B | MW-6B |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/24/2023 | 10/30/2023 | 4/30/2024 | 10/28/2024 | 4/21/2025 | 10/22/2025 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Di-n-octyl phthalate | µg/L | <0.47U | - | <0.47U | - | <0.47U | - |
| | Fluoranthene | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | Fluorene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | <0.59UJ | - | <0.59U | - |
| | Hexachloroethane | µg/L | <0.59U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | <0.47UJ | - | <0.47U | - |
| | Isophorone | µg/L | <0.43U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | <0.76U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.29U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | <0.54U | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - |
| | Phenanthrene | µg/L | <0.44U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | <0.39U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | **25** | - | **3.8** | - | **11** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **3J** | **2.8J** | <0.38U | <0.38U | **1.9J** | **1J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29UJ | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **1.8J** | **1.5J** | <0.79U | <0.79U | **1J** | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **2.5J** | **2.1J** | **1J** | <0.78U | **1.3J** | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | **7.6** | **5.9** | **2.8J** | **1.1J** | **3.8J** | **1.3J** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27UJ | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **9.2** | **8** | **1.7J** | <0.75U | **5.9** | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | **0.67J** | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **25** | **21** | **6.2** | **1.1** | **14** | **2.3** |

# MW-7A
# HISTORICAL GROUNDWATER MONITORING DATA

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7A | MW-7A | MW-7A | MW-7A | MW-7A | MW-7A |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 7/24/2008 | 10/22/2008 | 7/17/2009 | 10/29/2009 | 7/22/2010 | 10/28/2010 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | - | - | - | **32.6J** | - | - |
| | Ammonia | mg/L | - | - | - | - | - | - |
| | Nitrate+Nitrite | mg/L | - | - | - | - | - | - |
| | Sulfate | mg/L | - | - | - | - | - | - |
| | Total Organic Carbon | mg/L | - | - | - | - | - | - |
| Metals | Arsenic | µg/L | - | - | - | - | - | - |
| | Iron | µg/L | - | - | - | - | - | - |
| | Manganese | µg/L | - | - | - | - | - | - |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | - | - | - | - | - |
| | 1,2-Dichlorobenzene | µg/L | - | - | - | - | - | - |
| | 1,3-Dichlorobenzene | µg/L | - | - | - | - | - | - |
| | 1,4-Dichlorobenzene | µg/L | - | - | - | - | - | - |
| | 1,4-Dioxane | µg/L | - | - | - | - | - | - |
| | 2,4,5-Trichlorophenol | µg/L | - | - | - | - | - | - |
| | 2,4,6-Trichlorophenol | µg/L | - | - | - | - | - | - |
| | 2,4-Dichlorophenol | µg/L | - | - | - | - | - | - |
| | 2,4-Dimethylphenol | µg/L | - | - | - | - | - | - |
| | 2,4-Dinitrophenol | µg/L | - | - | - | - | - | - |
| | 2,4-Dinitrotoluene | µg/L | - | - | - | - | - | - |
| | 2,6-Dinitrotoluene | µg/L | - | - | - | - | - | - |
| | 2-Chloronaphthalene | µg/L | - | - | - | - | - | - |
| | 2-Chlorophenol | µg/L | - | - | - | - | - | - |
| | 2-Methylnaphthalene | µg/L | - | - | - | - | - | - |
| | 2-Methylphenol | µg/L | - | - | - | - | - | - |
| | 2-Nitroaniline | µg/L | - | - | - | - | - | - |
| | 2-Nitrophenol | µg/L | - | - | - | - | - | - |
| | 3,3-Dichlorobenzidine | µg/L | - | - | - | - | - | - |
| | 3-Nitroaniline | µg/L | - | - | - | - | - | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | - | - | - | - | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | - | - | - | - | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | - | - | - | - | - |
| | 4-Chloroaniline | µg/L | - | - | - | - | - | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | - | - | - | - | - |
| | 4-Methylphenol | µg/L | - | - | - | - | - | - |
| | 4-Nitroaniline | µg/L | - | - | - | - | - | - |
| | 4-Nitrophenol | µg/L | - | - | - | - | - | - |
| | Acenaphthene | µg/L | - | - | - | - | - | - |
| | Acenaphthylene | µg/L | - | - | - | - | - | - |
| | Anthracene | µg/L | - | - | - | - | - | - |
| | Benz(a)anthracene | µg/L | - | - | - | - | - | - |
| | Benzo(a)pyrene | µg/L | - | - | - | - | - | - |
| | Benzo(b)fluoranthene | µg/L | - | - | - | - | - | - |
| | Benzo(g,h,i)perylene | µg/L | - | - | - | - | - | - |
| | Benzo(k)fluoranthene | µg/L | - | - | - | - | - | - |
| | Benzoic acid | µg/L | - | - | - | - | - | - |
| | Benzyl alcohol | µg/L | - | - | - | - | - | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | - | - | - | - | - |
| | Bis(2-chloroethyl)ether | µg/L | - | - | - | - | - | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | - | - | - | - | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | - | - | - | - | - |
| | Butyl benzyl phthalate | µg/L | - | - | - | - | - | - |
| | Carbazole | µg/L | - | - | - | - | - | - |
| | Chrysene | µg/L | - | - | - | - | - | - |
| | Dibenz(a,h)anthracene | µg/L | - | - | - | - | - | - |
| | Dibenzofuran | µg/L | - | - | - | - | - | - |
| | Diethyl phthalate | µg/L | - | - | - | - | - | - |
| | Dimethyl phthalate | µg/L | - | - | - | - | - | - |
| | Di-n-butyl phthalate | µg/L | - | - | - | - | - | - |
| | Di-n-octyl phthalate | µg/L | - | - | - | - | - | - |
| | Fluoranthene | µg/L | - | - | - | - | - | - |
| | Fluorene | µg/L | - | - | - | - | - | - |

**MW-7A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7A | MW-7A | MW-7A | MW-7A | MW-7A | MW-7A |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 7/24/2008 | 10/22/2008 | 7/17/2009 | 10/29/2009 | 7/22/2010 | 10/28/2010 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Hexachlorobenzene | µg/L | - | - | - | - | - | - |
| | Hexachlorobutadiene | µg/L | - | - | - | - | - | - |
| | Hexachlorocyclopentadiene | µg/L | - | - | - | - | - | - |
| | Hexachloroethane | µg/L | - | - | - | - | - | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | - | - | - | - | - |
| | Isophorone | µg/L | - | - | - | - | - | - |
| | Naphthalene | µg/L | - | - | - | - | - | - |
| | Nitrobenzene | µg/L | - | - | - | - | - | - |
| | N-nitrosodi-n-propylamine | µg/L | - | - | - | - | - | - |
| | N-Nitrosodiphenylamine | µg/L | - | - | - | - | - | - |
| | Pentachlorophenol | µg/L | - | - | - | - | - | - |
| | Phenanthrene | µg/L | - | - | - | - | - | - |
| | Phenol | µg/L | - | - | - | - | - | - |
| | Pyrene | µg/L | - | - | - | - | - | - |
| | Total SVOCS | µg/L | - | - | - | - | - | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | <5U | <0.26U | <0.26U | <5U | <1U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <0.21U | <0.21U | <5U | <1U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <0.23U | <0.23U | <5U | <1U |
| | 1,1-Dichloroethane | µg/L | **3.7J** | **4.5J** | **0.86J** | **1.7J** | **1.8J** | **1.6** |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <0.29U | <0.29U | <5U | <1U |
| | 1,2-Dichlorobenzene | µg/L | <5U | <5U | <0.2U | <0.2U | <5U | <1U |
| | 1,2-Dichloroethane | µg/L | <5U | <5U | <0.21U | <0.21U | <5U | <1U |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <0.32U | <0.33U | <5U | <1U |
| | 1,3-Dichlorobenzene | µg/L | <5U | <5U | <0.36U | <0.36U | <5U | <1U |
| | 1,4-Dichlorobenzene | µg/L | <5U | <5U | **0.93J** | <0.39U | <5U | <1U |
| | 2-Butanone | µg/L | <5U | <5U | <1.3U | <1.3U | <5U | <5U |
| | 2-Hexanone | µg/L | <5U | <5U | <1.2U | <1.2U | <5U | <5U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <0.91U | <0.91U | <5U | <5U |
| | Acetone | µg/L | <10U | <10U | <1.3U | <1.3U | <10U | <5U |
| | Benzene | µg/L | <5U | <5U | <0.41U | <0.41U | <5U | <1U |
| | Dichlorobromomethane | µg/L | <5U | <5U | <0.39U | <0.39U | <5U | <1U |
| | Bromoform | µg/L | <5U | <5U | <0.26U | <0.26U | <5U | <1U |
| | Bromomethane | µg/L | <5U | <5U | <0.28U | <0.28U | <5U | <1U |
| | Carbon Disulfide | µg/L | <5U | <5U | <0.19U | <0.19U | <5U | <1U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <0.27U | <0.27U | <5U | <1U |
| | Chlorobenzene | µg/L | <5U | <5U | <0.32U | <0.32U | <5U | <1U |
| | Chlorodibromomethane | µg/L | <5U | <5U | <0.32U | <0.32U | <5U | <1U |
| | Chloroethane | µg/L | <5U | <5U | <0.32U | <0.32U | <5U | <1U |
| | Chloroform | µg/L | <5U | <5U | <0.34U | <0.34U | <5U | <1U |
| | Chloromethane | µg/L | <5U | <5U | <0.35U | <0.35U | <5U | <1U |
| | cis-1,2-Dichloroethene | µg/L | <1U | <1U | <0.38U | <0.38U | <1UJ | <1U |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <0.36U | <0.36U | <5U | <1U |
| | Methylene Chloride | µg/L | <5U | <5U | <0.44U | <0.44U | <5U | <1U |
| | Ethylbenzene | µg/L | <5U | <5U | <0.18U | <0.18U | <5U | <1U |
| | Styrene | µg/L | <5U | <5U | <0.18U | <0.18U | <5U | <1U |
| | Trichloroethene | µg/L | <5U | <5U | <0.46U | <0.46U | <5U | <1U |
| | Tetrachloroethene | µg/L | <5U | <5U | <0.36U | <0.36U | <5U | <1U |
| | Toluene | µg/L | <5U | <5U | <0.51U | <0.51U | <5U | <1U |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <0.42U | <0.42U | <1U | <1U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <0.37U | <0.37U | <5U | <1U |
| | Vinyl Chloride | µg/L | <5U | <5U | <0.24U | <0.24U | <5U | <1U |
| | Total Xylenes | µg/L | <5U | <5U | <0.66U | <0.66U | <5U | <2U |
| | Total VOCS | µg/L | **3.7** | **4.5** | **1.8** | **1.7** | **1.8** | **1.6** |

**MW-7A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7A | MW-7A | MW-7A | MW-7A | MW-7A | MW-7A | MW-7A |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/17/2013 | 4/22/2014 | 4/21/2015 | 5/16/2016 | 4/24/2017 | 5/8/2018 | 4/22/2019 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **28.1** | - | **34.3J** | **35.2** | **17.9J+** | **37.4J+** | **31.8** |
| | Ammonia | mg/L | <0.009U | - | <0.009U | <0.009U | <0.009U | <0.009U | <0.009U |
| | Nitrate+Nitrite | mg/L | **0.1** | - | **0.13** | **0.11** | **0.13** | **0.12** | **0.11** |
| | Sulfate | mg/L | **10.1** | - | **8.9** | **10.6** | **9.5** | **8.6** | **8.1** |
| | Total Organic Carbon | mg/L | <0.43U | - | **0.59J** | <0.43U | <0.43U | <0.43U | **0.45J** |
| Metals | Arsenic | µg/L | <5.6U | - | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **33J** | - | **23J** | <150U | **140J** | <19U | **43J** |
| | Manganese | µg/L | **1.5J** | - | **2.1J** | **11** | **6.7** | <0.46U | **5.7** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <0.42U | <0.41U | <0.42U | <0.41U | <0.44U | <0.44U | <0.44U |
| | 1,2-Dichlorobenzene | µg/L | <0.38U | <0.37U | <0.39U | <0.37U | <0.4U | <0.4U | <0.4U |
| | 1,3-Dichlorobenzene | µg/L | <0.46U | <0.44U | <0.46U | <0.44U | <0.48U | <0.48U | <0.48U |
| | 1,4-Dichlorobenzene | µg/L | <0.44U | <0.42U | <0.44U | <0.43U | <0.46U | <0.46U | <0.46U |
| | 1,4-Dioxane | µg/L | <1U | **1.4J** | **1.8J** | **1.5J** | **2.5J** | <1.1U | <1.1UJ |
| | 2,4,5-Trichlorophenol | µg/L | <0.46U | <0.44U | <0.46U | <0.44U | <0.48U | <0.48U | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | <0.58U | <0.56U | <0.59U | <0.56U | <0.61U | <0.61U | <0.61U |
| | 2,4-Dichlorophenol | µg/L | <0.48U | <0.47U | <0.49U | <0.47U | <0.51U | <0.51U | <0.51U |
| | 2,4-Dimethylphenol | µg/L | <0.48U | <0.46U | <0.48U | <0.46U | <0.5U | <0.5U | <0.5U |
| | 2,4-Dinitrophenol | µg/L | <2.1U | <2U | <2.1U | <2.1U | <2.2U | <2.2U | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | <0.42U | <0.41U | <0.43U | <0.41U | <0.45U | <0.45U | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | <0.38U | <0.37U | <0.39U | <0.37U | <0.4U | <0.4U | <0.4U |
| | 2-Chloronaphthalene | µg/L | <0.44U | <0.42U | <0.44U | <0.43U | <0.46U | <0.46U | <0.46U |
| | 2-Chlorophenol | µg/L | <0.5U | <0.49U | <0.51U | <0.49U | <0.53U | <0.53U | <0.53U |
| | 2-Methylnaphthalene | µg/L | <0.57U | <0.55U | <0.58U | <0.55U | <0.6U | <0.6U | <0.6U |
| | 2-Methylphenol | µg/L | <0.38U | <0.37U | <0.39U | <0.37U | <0.4U | <0.4U | <0.4U |
| | 2-Nitroaniline | µg/L | <0.4U | <0.39U | <0.4U | <0.39U | <0.42U | <0.42U | <0.42U |
| | 2-Nitrophenol | µg/L | <0.46U | <0.44U | <0.46U | <0.44U | <0.48U | <0.48U | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | <0.38U | <0.37U | <0.39U | <0.37U | <0.4U | <0.4U | <0.4U |
| | 3-Nitroaniline | µg/L | <0.46U | <0.44UJ | <0.46U | <0.44U | <0.48U | <0.48U | <0.48U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.1U | <2U | <2.1U | <2U | <2.2U | <2.2U | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <0.43U | <0.41U | <0.43U | <0.42U | <0.45U | <0.45U | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | <0.43U | <0.41U | <0.43U | <0.42U | <0.45U | <0.45U | <0.45U |
| | 4-Chloroaniline | µg/L | <0.56U | <0.54UJ | <0.57U | <0.55U | <0.59U | <0.59U | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.33U | <0.32U | <0.34U | <0.32U | <0.35U | <0.35U | <0.35U |
| | 4-Methylphenol | µg/L | <0.34U | <0.33U | <0.35U | <0.33U | <0.36U | <0.36U | <0.36U |
| | 4-Nitroaniline | µg/L | <0.24U | <0.23U | <0.24UJ | <0.23U | <0.25U | <0.25U | <0.25U |
| | 4-Nitrophenol | µg/L | <1.4U | <1.4U | <1.5U | <1.4U | <1.5U | <1.5U | <1.5U |
| | Acenaphthene | µg/L | <0.39U | <0.38U | <0.39U | <0.38U | <0.41U | <0.41U | <0.41U |
| | Acenaphthylene | µg/L | <0.36U | <0.35U | <0.37U | <0.35U | <0.38U | <0.38U | <0.38U |
| | Anthracene | µg/L | <0.27U | <0.26U | <0.27U | <0.26U | <0.28U | <0.28U | <0.28U |
| | Benz(a)anthracene | µg/L | <0.34U | <0.33U | <0.35U | <0.33U | <0.36U | <0.36U | <0.36U |
| | Benzo(a)pyrene | µg/L | <0.45U | <0.43U | <0.45U | <0.43U | <0.47U | <0.47U | <0.47U |
| | Benzo(b)fluoranthene | µg/L | <0.32U | <0.31U | <0.33U | <0.31U | <0.34U | <0.34U | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | <0.33U | <0.32UJ | <0.34U | <0.32U | <0.35U | <0.35U | <0.35U |
| | Benzo(k)fluoranthene | µg/L | <0.69U | <0.67U | <0.7U | <0.68U | <0.73U | <0.73U | <0.73U |
| | Benzoic acid | µg/L | <95U | <92U | <96U | - | <100U | <100U | <100U |
| | Benzyl alcohol | µg/L | <0.42U | <1.9U | <6.7U | <6.5U | **1.1J** | <0.44U | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | <0.33U | <0.32U | <0.34U | <0.32U | <0.35U | <0.35U | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | <0.38U | <0.37U | <0.39U | <0.37U | <0.4U | <0.4U | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.49U | <0.48U | <0.5U | <0.48U | <0.52U | <0.52U | <0.52U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.7U | <1.7U | <1.7U | <1.7U | <1.8U | <1.8U | <1.8U |
| | Butyl benzyl phthalate | µg/L | <0.4U | <0.39U | <9.6U | <0.39U | <0.42U | <0.42U | <0.46U |
| | Carbazole | µg/L | <0.29U | <0.28U | <0.29U | <0.28U | <0.3U | <0.3U | <0.3U |
| | Chrysene | µg/L | <0.31U | <0.3U | <0.32U | <0.31U | <0.33U | <0.33U | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | <0.4U | <0.39U | <0.4U | <0.39U | <0.42U | <0.42U | <0.42U |
| | Dibenzofuran | µg/L | <0.48U | <0.47U | <0.49U | <0.47U | <0.51U | <0.51U | <0.51U |
| | Diethyl phthalate | µg/L | <0.21U | <0.2U | <0.21U | <0.2U | <0.22U | <0.22U | <0.22U |
| | Dimethyl phthalate | µg/L | <0.34U | <0.33U | <0.35U | <0.33U | <0.36U | <0.36U | <0.36U |
| | Di-n-butyl phthalate | µg/L | <0.29U | <0.29U | <0.3U | <0.29U | <0.31U | <0.31U | <0.31U |
| | Di-n-octyl phthalate | µg/L | <0.45U | <0.43U | <0.45U | <0.43U | <0.47U | <0.47U | <0.47U |
| | Fluoranthene | µg/L | <0.38U | <0.37U | <0.39U | <0.37U | <0.4U | <0.4U | <0.4U |
| | Fluorene | µg/L | <0.34U | <0.33U | <0.35U | <0.33U | <0.36U | <0.36U | <0.36U |

**MW-7A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7A | MW-7A | MW-7A | MW-7A | MW-7A | MW-7A | MW-7A |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/17/2013 | 4/22/2014 | 4/21/2015 | 5/16/2016 | 4/24/2017 | 5/8/2018 | 4/22/2019 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Hexachlorobenzene | µg/L | <0.48U | <0.47U | <0.49U | <0.47U | <0.51U | <0.51U | <0.51U |
| | Hexachlorobutadiene | µg/L | <0.65U | <0.63U | <0.66U | <0.63U | <0.68U | <0.68U | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | <0.56U | <0.54U | <0.57U | <0.55U | <0.59U | <0.59U | <0.59U |
| | Hexachloroethane | µg/L | <0.56U | <0.54U | <0.57U | <0.55U | <0.59U | <0.59U | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.45U | <0.43U | <0.45U | <0.43U | <0.47U | <0.47U | <0.47U |
| | Isophorone | µg/L | <0.41U | <0.4U | <0.41U | <0.4U | <0.43U | <0.43U | <0.43U |
| | Naphthalene | µg/L | <0.72U | <0.7U | <0.73U | <0.7U | <0.76U | <0.76U | <0.76U |
| | Nitrobenzene | µg/L | <0.28U | <0.27U | <0.28U | <0.27U | <0.29U | <0.29U | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | <0.51U | <0.5U | <0.52U | <0.5U | <0.54U | <0.54U | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | <0.48U | <0.47U | <0.49U | <0.47U | <0.51U | <0.51U | <0.51U |
| | Pentachlorophenol | µg/L | <2.1U | <2U | <2.1U | <2U | <2.2U | <2.2U | <2.2U |
| | Phenanthrene | µg/L | <0.42U | <0.41U | <0.42U | <0.41U | <0.44U | <0.44U | <0.44U |
| | Phenol | µg/L | <0.37U | <0.36U | <0.38U | <0.36U | <0.39U | <0.39U | <0.39U |
| | Pyrene | µg/L | <0.32U | <0.31U | <0.33U | <0.31U | <0.34U | <0.34U | <0.34U |
| | Total SVOCS | µg/L | ND | **1.4** | **1.8** | **1.5** | **3.6** | ND | ND |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **0.53J** | **0.45J** | **0.53J** | **0.74J** | **1J** | **1J** | **0.41J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.38U | <0.37U | <0.39U | <0.37U | <0.4U | <0.4U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21UJ | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.46U | <0.44U | <0.46U | <0.44U | <0.48U | <0.48U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <0.44U | <0.42U | <0.44U | <0.43U | <0.46U | <0.46U | <0.84U |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2UJ | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1UJ | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | **3.2J** | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32UJ | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.58U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **0.53** | **0.45** | **0.53** | **0.74** | **1** | **4.2** | **0.41** |

**MW-7A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7A | MW-7A | MW-7A | MW-7A | MW-7A | MW-7A |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/29/2020 | 4/26/2021 | 4/19/2022 | 4/25/2023 | 4/30/2024 | 4/21/2025 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **26.1** | **26** | **24.7** | **31** | **28J-** | **20.8** |
| | Ammonia | mg/L | <0.009U | <0.009U | <0.009U | <0.009U | <0.009U | **0.009J** |
| | Nitrate+Nitrite | mg/L | **0.12** | **0.11** | **0.094** | **0.14** | **0.1** | **0.095** |
| | Sulfate | mg/L | **9.2** | **8.9** | **8.1** | **8.4** | **6.3** | **8.8** |
| | Total Organic Carbon | mg/L | <0.43U | <0.43U | **1.1** | <0.43U | <0.43U | **0.79J** |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **32J** | **27J** | **99J** | <19U | <19U | <27U |
| | Manganese | µg/L | **2.2J** | **4J+** | **10** | **1.6J** | **0.7J** | <1.3U |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | 1,2-Dichlorobenzene | µg/L | <0.40U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 1,3-Dichlorobenzene | µg/L | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| | 1,4-Dichlorobenzene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | 1,4-Dioxane | µg/L | **1.7J** | **1.3J** | **1.3J** | <1.1U | <1.1U | <1.1U |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | <0.61U | <0.61U | <0.61U | <0.61U | <0.61U |
| | 2,4-Dichlorophenol | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | 2,4-Dimethylphenol | µg/L | <0.5U | <0.5U | <0.5U | <0.5U | <0.5U | <0.5U |
| | 2,4-Dinitrophenol | µg/L | <2.2U | <2.2U | <2.2U | <2.2U | <2.2UJ | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 2-Chloronaphthalene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | 2-Chlorophenol | µg/L | <0.53U | <0.53U | <0.53U | <0.53U | <0.53U | <0.53U |
| | 2-Methylnaphthalene | µg/L | <0.60U | <0.6U | <0.6U | <0.6U | <0.6U | <0.6U |
| | 2-Methylphenol | µg/L | <0.40U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 2-Nitroaniline | µg/L | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U |
| | 2-Nitrophenol | µg/L | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | <0.40U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 3-Nitroaniline | µg/L | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| | 4-Chloroaniline | µg/L | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | 4-Methylphenol | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | 4-Nitroaniline | µg/L | <0.25U | <0.25U | <0.25U | <0.25U | <0.25U | <0.25U |
| | 4-Nitrophenol | µg/L | <1.5U | <1.5U | <1.5UJ | <1.5U | <1.5U | <1.5U |
| | Acenaphthene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Acenaphthylene | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | Anthracene | µg/L | <0.28U | <0.28U | <0.28U | <0.28U | <0.28U | <0.28U |
| | Benz(a)anthracene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Benzo(a)pyrene | µg/L | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U |
| | Benzo(b)fluoranthene | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35UJ | <0.35U |
| | Benzo(k)fluoranthene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Benzoic acid | µg/L | <100U | <100U | <100U | <100U | <100U | <100U |
| | Benzyl alcohol | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | <0.4U | <0.4U | <0.4U | <0.4UJ | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | <0.52U | <0.52U | <0.52U | <0.52U | <0.52UJ |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | <1.8U | <1.8U | <1.8U | <1.8U | <1.8U |
| | Butyl benzyl phthalate | µg/L | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U |
| | Carbazole | µg/L | <0.30U | <0.3U | <0.3U | <0.3U | <0.3U | <0.3U |
| | Chrysene | µg/L | <0.33U | <0.33U | <0.33U | <0.33U | <0.33U | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U |
| | Dibenzofuran | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | Diethyl phthalate | µg/L | <0.22U | <0.22U | <0.22U | <0.22U | <0.22U | <0.22U |
| | Dimethyl phthalate | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Di-n-butyl phthalate | µg/L | <0.31U | <0.31U | <0.31U | **0.44J** | <0.31U | <0.31U |
| | Di-n-octyl phthalate | µg/L | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U |
| | Fluoranthene | µg/L | <0.40U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | Fluorene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |

**MW-7A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7A | MW-7A | MW-7A | MW-7A | MW-7A | MW-7A |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/29/2020 | 4/26/2021 | 4/19/2022 | 4/25/2023 | 4/30/2024 | 4/21/2025 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Hexachlorobenzene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | Hexachlorobutadiene | µg/L | <0.68U | <0.68U | <0.68U | <0.68U | <0.68U | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | <0.59U | <0.59U | <0.59U | <0.59UJ | <0.59U |
| | Hexachloroethane | µg/L | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | <0.47U | <0.47U | <0.47U | <0.47UJ | <0.47U |
| | Isophorone | µg/L | <0.43U | <0.43U | <0.43U | <0.43U | <0.43U | <0.43U |
| | Naphthalene | µg/L | <0.76U | <0.76U | <0.76U | <0.76U | <0.76U | <0.76U |
| | Nitrobenzene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | <0.54U | <0.54U | <0.54U | <0.54U | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | Pentachlorophenol | µg/L | <2.2U | <2.2U | <2.2UJ | <2.2U | <2.2U | <2.2U |
| | Phenanthrene | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Phenol | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Pyrene | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Total SVOCS | µg/L | **1.7** | **1.3** | **1.3** | **0.44** | ND | ND |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29UJ | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | <0.79U | <0.79U | <0.4U | <0.79U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.78U | <0.78U | <0.78U | <0.48U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <0.83U | <0.84U | <0.84U | <0.46U | <0.84U | <0.84U |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3.0U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.90U | <0.9U | <0.9U | <0.9U | <0.9UJ | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.90U | <0.9U | <0.9U | <0.9U | <0.9UJ | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | ND | ND | ND | ND | ND | ND |

# MW-7B
# HISTORICAL GROUNDWATER MONITORING DATA

## Cortese Landfill Site
## Narrowsburg, New York

| | Sample Location | | MW-7B | MW-7B | MW-7B | MW-7B | MW-7B | MW-7B |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 4/27/2009 | 5/6/2010 | 4/26/2011 | 4/30/2012 | 4/17/2013 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | - | - | - | **97** | **52J** | **88.4** |
| | Ammonia | mg/L | - | - | - | **2.8** | **3.1** | **4** |
| | Nitrate+Nitrite | mg/L | - | - | - | **0.061** | <0.05U | **0.12** |
| | Sulfate | mg/L | - | - | - | **10.3J** | **12.3J** | <1.5U |
| | Total Organic Carbon | mg/L | - | - | - | **1.7J** | <1U | **0.78J** |
| Metals | Arsenic | µg/L | - | - | - | **13** | **12** | **66** |
| | Iron | µg/L | - | - | - | **7,000** | **3,100J** | **12,900** |
| | Manganese | µg/L | - | - | - | **13,700** | **7,700** | **11,700** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | - | - | **1.3J** | <1.8U | **1.6J** |
| | 1,2-Dichlorobenzene | µg/L | - | - | - | **3.1** | **0.4J** | **3.9** |
| | 1,3-Dichlorobenzene | µg/L | - | - | - | **2.3** | <1.8U | **3.3** |
| | 1,4-Dichlorobenzene | µg/L | - | - | - | **14** | **2.2J** | **18** |
| | 1,4-Dioxane | µg/L | - | - | - | **6.1J** | <9.6U | <1.1U |
| | 2,4,5-Trichlorophenol | µg/L | - | - | - | <9.5U | <9.6U | <0.46U |
| | 2,4,6-Trichlorophenol | µg/L | - | - | - | <3U | <3U | <0.59U |
| | 2,4-Dichlorophenol | µg/L | - | - | - | <2.7U | <2.7U | <0.49U |
| | 2,4-Dimethylphenol | µg/L | - | - | - | <2.7U | <2.7U | <0.48U |
| | 2,4-Dinitrophenol | µg/L | - | - | - | <41U | <41U | <2.1U |
| | 2,4-Dinitrotoluene | µg/L | - | - | - | <5.5UJ | <5.6U | <0.43U |
| | 2,6-Dinitrotoluene | µg/L | - | - | - | <1.8U | <1.8U | <0.38U |
| | 2-Chloronaphthalene | µg/L | - | - | - | <1.8U | <1.8U | <0.44U |
| | 2-Chlorophenol | µg/L | - | - | - | <3.1U | <3.2U | <0.51U |
| | 2-Methylnaphthalene | µg/L | - | - | - | <9.5U | <9.6U | <0.58U |
| | 2-Methylphenol | µg/L | - | - | - | <9.5U | <9.6U | <0.38U |
| | 2-Nitroaniline | µg/L | - | - | - | <9.5U | <9.6U | <0.4U |
| | 2-Nitrophenol | µg/L | - | - | - | <3.4U | <3.4U | <0.46U |
| | 3,3-Dichlorobenzidine | µg/L | - | - | - | <16U | <16U | <0.38U |
| | 3-Nitroaniline | µg/L | - | - | - | <9.5U | <9.6U | <0.46U |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | - | - | <23U | <23U | <2.1U |
| | 4-Bromophenyl phenyl ether | µg/L | - | - | - | <1.7U | <1.7U | <0.43U |
| | 4-Chloro-3-Methylphenol | µg/L | - | - | - | <2.9UJ | <2.9U | <0.43U |
| | 4-Chloroaniline | µg/L | - | - | - | <1.9U | <1.9U | <0.57U |
| | 4-Chlorophenyl phenyl ether | µg/L | - | - | - | <4.1U | <4.1U | <0.34U |
| | 4-Methylphenol | µg/L | - | - | - | <9.5U | <9.6U | <0.35U |
| | 4-Nitroaniline | µg/L | - | - | - | <9.5U | <9.6U | <0.24U |
| | 4-Nitrophenol | µg/L | - | - | - | <2.9UJ | <2.9U | <1.5U |
| | Acenaphthene | µg/L | - | - | - | <1.7U | <1.7U | <0.39U |
| | Acenaphthylene | µg/L | - | - | - | <3.3U | <3.3U | <0.36U |
| | Anthracene | µg/L | - | - | - | <1.7U | <1.7U | <0.27U |
| | Benz(a)anthracene | µg/L | - | - | - | <7.4U | <7.5U | <0.35U |
| | Benzo(a)pyrene | µg/L | - | - | - | <2.5U | <2.5U | <0.45U |
| | Benzo(b)fluoranthene | µg/L | - | - | - | <9.5U | <9.6U | <0.33U |
| | Benzo(g,h,i)perylene | µg/L | - | - | - | <3.9U | <3.9U | <0.34U |
| | Benzo(k)fluoranthene | µg/L | - | - | - | <2.4U | <2.4U | <0.7U |
| | Benzoic acid | µg/L | - | - | - | <95U | <96U | <96U |
| | Benzyl alcohol | µg/L | - | - | - | <6.7U | <6.7U | <0.42U |
| | Bis(2-chloroethoxy) methane | µg/L | - | - | - | <5U | <5.1U | <0.34U |
| | Bis(2-chloroethyl)ether | µg/L | - | - | - | <5.4U | <5.5U | <0.38U |
| | Bis(2-chloroisopropyl) ether | µg/L | - | - | - | <5.4U | <5.5U | <0.5U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | - | - | <9.5UJ | <9.6U | <1.7U |
| | Butyl benzyl phthalate | µg/L | - | - | - | <9.5U | <9.6U | <0.4U |
| | Carbazole | µg/L | - | - | - | <9.5U | <9.6U | <0.29U |
| | Chrysene | µg/L | - | - | - | <2.4U | <2.4U | <0.32U |
| | Dibenz(a,h)anthracene | µg/L | - | - | - | <9.5U | <9.6U | <0.4U |
| | Dibenzofuran | µg/L | - | - | - | <9.5U | <9.6U | <0.49U |
| | Diethyl phthalate | µg/L | - | - | - | **0.29J** | <9.6U | <0.21U |
| | Dimethyl phthalate | µg/L | - | - | - | <9.5U | <9.6U | <0.35U |
| | Di-n-butyl phthalate | µg/L | - | - | - | <9.5U | <9.6U | <0.3U |
| | Di-n-octyl phthalate | µg/L | - | - | - | <9.5U | <9.6U | <0.45U |
| | Fluoranthene | µg/L | - | - | - | <2.1U | <2.1U | <0.38U |

**MW-7B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7B | MW-7B | MW-7B | MW-7B | MW-7B | MW-7B |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 4/27/2009 | 5/6/2010 | 4/26/2011 | 4/30/2012 | 4/17/2013 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | - | - | - | <1.8U | <1.8U | <0.35U |
| | Hexachlorobenzene | µg/L | - | - | - | <2.1U | <2.1U | <0.49U |
| | Hexachlorobutadiene | µg/L | - | - | - | <2.5U | <2.5U | <0.65U |
| | Hexachlorocyclopentadiene | µg/L | - | - | - | <9.5U | <9.6U | <0.57U |
| | Hexachloroethane | µg/L | - | - | - | <2.7U | <2.7U | <0.57U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | - | - | <4.6U | <4.6U | <0.45U |
| | Isophorone | µg/L | - | - | - | <2.1U | <2.1U | <0.41U |
| | Naphthalene | µg/L | - | - | - | <1.5U | <1.5U | **1.7** |
| | Nitrobenzene | µg/L | - | - | - | <1.9U | <1.9U | <0.28U |
| | N-nitrosodi-n-propylamine | µg/L | - | - | - | <4.8U | <4.8U | <0.52U |
| | N-Nitrosodiphenylamine | µg/L | - | - | - | <1.8U | <1.8U | <0.49U |
| | Pentachlorophenol | µg/L | - | - | - | <4.9UJ | <4.9U | <2.1U |
| | Phenanthrene | µg/L | - | - | - | <4.8U | <4.8U | <0.42U |
| | Phenol | µg/L | - | - | - | <2.4U | <2.4U | <0.37U |
| | Pyrene | µg/L | - | - | - | <1.8U | <1.8U | <0.33U |
| | Total SVOCS | µg/L | - | - | - | **28** | **2.6** | **29** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | **1.6J** | <5U | **2J** | <5U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <0.21U | <5U | <5U | <5U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <0.23U | <5U | <5U | <5U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **6** | **31** | **14** | **24** | **0.57J** | **12** |
| | 1,1-Dichloroethene | µg/L | <5U | <0.29U | <5U | <5U | <5U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **1.8J** | **3.1J** | **3.8J** | **4.2J** | <5U | **5.8** |
| | 1,2-Dichloroethane | µg/L | <5U | <0.21U | <5U | <5U | <5U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <5U | <0.14U | <5U | <5U | <5U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **1.6J** | **2.3J** | **2.8J** | **3.3J** | <5U | **4.5J** |
| | 1,4-Dichlorobenzene | µg/L | **8.9** | **15** | **19** | **20** | **3J** | **29** |
| | 2-Butanone | µg/L | <5U | <1.3U | <5U | <5U | <5U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <1.2U | <5U | <5U | <5U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <0.91U | <5U | <5U | <5U | <2.1U |
| | Acetone | µg/L | <10U | <1.3U | <10U | <10U | <10U | <3U |
| | Benzene | µg/L | <5U | **1.7J** | **2.1J** | **3.8J** | <5U | **1.5J** |
| | Dichlorobromomethane | µg/L | <5U | <0.39U | <5U | <5U | <5U | <0.39U |
| | Bromoform | µg/L | <5U | <0.26U | <5U | <5U | <5U | <0.26U |
| | Bromomethane | µg/L | <5U | <0.28U | <5U | <5U | <5U | <0.69U |
| | Carbon Disulfide | µg/L | <5U | <0.19U | <5U | <5U | <5U | <0.19U |
| | Carbon Tetrachloride | µg/L | <5U | <0.27U | <5U | <5U | <5U | <0.27U |
| | Chlorobenzene | µg/L | **3.5J** | **8.8** | **9.8** | **12** | **0.75J** | **15** |
| | Chlorodibromomethane | µg/L | <5U | <0.32U | <5U | <5U | <5U | <0.32U |
| | Chloroethane | µg/L | <5U | **1.7J** | **5.4** | **15** | <5U | **3J** |
| | Chloroform | µg/L | <5U | <0.34U | <5U | <5U | <5U | <0.34U |
| | Chloromethane | µg/L | <5U | <0.35U | <5U | <5U | <5U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <1U | **0.61J** | <1U | <1U | <1U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <5U | <0.36U | <5U | <5U | <5U | <0.36U |
| | Methylene Chloride | µg/L | <5U | <0.44U | <5U | <5U | <5U | <0.44U |
| | Ethylbenzene | µg/L | <5U | <0.18U | <5U | <5U | <5U | <0.74U |
| | Styrene | µg/L | <5U | <0.18U | <5U | <5U | <5U | <0.73U |
| | Trichloroethene | µg/L | <5U | **0.85J** | **0.53J** | **0.82J** | <5U | **0.79J** |
| | Tetrachloroethene | µg/L | <5U | <0.36U | <5U | <5U | <5U | <0.36U |
| | Toluene | µg/L | <5U | <0.51U | <5U | <5U | <5U | **1.2J** |
| | trans-1,2-Dichloroethene | µg/L | <1U | <0.13U | <1U | <1U | <1U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <0.37U | <5U | <5U | <5U | <0.37U |
| | Vinyl Chloride | µg/L | <5U | **0.76J** | <5U | <5U | <5U | <0.9U |
| | Total Xylenes | µg/L | <5U | <0.66U | <5U | **1.6J** | <5U | <0.66U |
| | Total VOCS | µg/L | **22** | **68** | **58** | **87** | **4.4** | **73** |

**MW-7B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7B | MW-7B | MW-7B | MW-7B | MW-7B | MW-7B | MW-7B | MW-7B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/22/2014 | 4/21/2015 | 5/16/2016 | 4/24/2017 | 4/22/2019 | 4/29/2020 | 4/19/2022 | 4/30/2024 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | - | **64.8J** | **63.6** | **42.1J+** | **34.2** | **54.3** | **48.4** | **33.2J-** |
| | Ammonia | mg/L | - | **2.1** | **2.8** | **2.5** | **2.8** | **2.2** | **1.7** | **1.5** |
| | Nitrate+Nitrite | mg/L | - | **0.11** | <0.02U | **0.17** | **0.025J** | **0.08** | <0.02U | **0.048J** |
| | Sulfate | mg/L | - | **6.8** | **33.6** | **23.9** | **14.6** | **20.7** | **12** | **7.5** |
| | Total Organic Carbon | mg/L | - | **1.4** | **2.1** | <1U | **1.2J** | **1.3** | **1.9** | **0.54J** |
| Metals | Arsenic | µg/L | - | **30** | **63** | **35** | **41** | **47** | **45** | **42** |
| | Iron | µg/L | - | **10,500** | **13,900** | **10,000** | **9,100** | **12,900** | **16,300** | **13,900** |
| | Manganese | µg/L | - | **10,000J** | **11,900** | **9,300** | **6,300** | **8,400** | **8,600** | **6,200** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **1.1J** | **0.77J** | **2.4** | **2** | **0.91J** | **1.7J** | **1.1J** | **0.63J** |
| | 1,2-Dichlorobenzene | µg/L | **3** | **2** | **2.5** | **1.3J** | <0.4U | **1.1J** | **0.7J** | **0.42J** |
| | 1,3-Dichlorobenzene | µg/L | **2.5** | **1.9** | **3.2** | **1.9** | **0.53J** | **1.3J** | **0.93J** | **0.59J** |
| | 1,4-Dichlorobenzene | µg/L | **15** | **9.9** | **11** | **6.3** | **1.8J** | **5.3J** | **3J** | **1.7J** |
| | 1,4-Dioxane | µg/L | **8.1J** | **5.8J** | **4.8J** | **4J** | <1.1U | **11** | **5.2J** | <1.1U |
| | 2,4,5-Trichlorophenol | µg/L | <0.45U | <0.45U | <0.46U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | <0.58U | <0.57U | <0.58U | <0.61U | <0.61U | <0.61U | <0.61U | <0.61U |
| | 2,4-Dichlorophenol | µg/L | <0.48U | <0.48U | <0.48U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | 2,4-Dimethylphenol | µg/L | <0.47U | <0.47U | <0.47U | <0.5U | <0.5U | <0.5U | <0.5U | <0.5U |
| | 2,4-Dinitrophenol | µg/L | <2.1U | <2.1U | <2.1U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2UJ |
| | 2,4-Dinitrotoluene | µg/L | <0.42U | <0.42U | <0.42U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | <0.38U | <0.37U | <0.38U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 2-Chloronaphthalene | µg/L | <0.43U | <0.43U | <0.44U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | 2-Chlorophenol | µg/L | <0.5U | <0.5U | <0.5U | <0.53U | <0.53U | <0.53U | <0.53U | <0.53U |
| | 2-Methylnaphthalene | µg/L | <0.57U | <0.56U | <0.57U | <0.6U | <0.6U | <0.6U | <0.6U | <0.6U |
| | 2-Methylphenol | µg/L | <0.38U | <0.37U | <0.38U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 2-Nitroaniline | µg/L | <0.4U | <0.39U | <0.4U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U |
| | 2-Nitrophenol | µg/L | <0.45U | <0.45U | <0.46U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | <0.38U | <0.37U | <0.38U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 3-Nitroaniline | µg/L | <0.45UJ | <0.45U | <0.46U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.1U | <2.1U | <2.1U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <0.42U | <0.42U | <0.43U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | <0.42U | <0.42U | <0.43U | <0.45U | <0.45U | <0.45U | 0.53J | <0.45U |
| | 4-Chloroaniline | µg/L | <0.56UJ | <0.55U | <0.56U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.33U | <0.33U | <0.33U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | 4-Methylphenol | µg/L | <0.34U | <0.34U | <0.34U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | 4-Nitroaniline | µg/L | <0.24U | <0.23UJ | <0.24U | <0.25U | <0.25U | <0.25U | <0.25U | <0.25U |
| | 4-Nitrophenol | µg/L | <1.4U | <1.4U | <1.4U | <1.5U | <1.5U | <1.5U | <1.5U | <1.5U |
| | Acenaphthene | µg/L | <0.39U | <0.38U | <0.39U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Acenaphthylene | µg/L | <0.36U | <0.36U | <0.36U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | Anthracene | µg/L | <0.26U | <0.26U | <0.27U | <0.28U | <0.28U | <0.28U | <0.28U | <0.28U |
| | Benz(a)anthracene | µg/L | <0.34U | <0.34U | <0.34U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Benzo(a)pyrene | µg/L | <0.44U | <0.44U | <0.45U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U |
| | Benzo(b)fluoranthene | µg/L | <0.32U | <0.32U | <0.32U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | <0.33UJ | <0.33U | <0.33U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35UJ |
| | Benzo(k)fluoranthene | µg/L | <0.69U | <0.68U | <0.69U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Benzoic acid | µg/L | <94U | <94U | - | <100U | <100U | <100U | <100U | <100U |
| | Benzyl alcohol | µg/L | <1.9U | <6.6U | <6.6U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | <0.33U | <0.33U | <0.33U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | <0.38U | <0.37U | <0.38U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4UJ |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.49U | <0.49U | <0.49U | <0.52U | <0.52U | <0.52U | <0.52U | <0.52U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.7U | <1.7U | <1.7U | <1.8U | <1.8U | <1.8U | <1.8U | <1.8U |
| | Butyl benzyl phthalate | µg/L | <0.4U | <9.4U | <0.4U | <0.42U | <0.43U | <0.42U | <10U | <0.42U |
| | Carbazole | µg/L | <0.28U | <0.28U | <0.28U | <0.3U | <0.3U | <0.30U | <0.3U | <0.3U |
| | Chrysene | µg/L | <0.31U | <0.31U | <0.31U | <0.33U | <0.33U | <0.33U | <0.33U | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | <0.4U | <0.39U | <0.4U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U |
| | Dibenzofuran | µg/L | <0.48U | <0.48U | <0.48U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | Diethyl phthalate | µg/L | **0.24J** | <0.21U | <0.21U | <0.22U | <0.22U | <0.22U | <0.22U | <0.22U |
| | Dimethyl phthalate | µg/L | <0.34U | <0.34U | <0.34U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Di-n-butyl phthalate | µg/L | <0.29U | <0.29U | <0.29U | <0.31U | <0.31U | <0.31U | <10U | <0.31U |
| | Di-n-octyl phthalate | µg/L | <0.44U | <0.44U | <0.45U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U |
| | Fluoranthene | µg/L | <0.38U | <0.37U | <0.38U | <0.4U | <0.4U | <0.40U | <0.4U | <0.4U |

**MW-7B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7B | MW-7B | MW-7B | MW-7B | MW-7B | MW-7B | MW-7B | MW-7B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/22/2014 | 4/21/2015 | 5/16/2016 | 4/24/2017 | 4/22/2019 | 4/29/2020 | 4/19/2022 | 4/30/2024 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <0.34U | <0.34U | <0.34U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Hexachlorobenzene | µg/L | <0.48U | <0.48U | <0.48U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | Hexachlorobutadiene | µg/L | <0.64U | <0.64U | <0.65U | <0.68U | <0.68U | <0.68U | <0.68U | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | <0.56U | <0.55U | <0.56U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59UJ |
| | Hexachloroethane | µg/L | <0.56U | <0.55U | <0.56U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.44U | <0.44U | <0.45U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47UJ |
| | Isophorone | µg/L | <0.41U | <0.4U | <0.41U | <0.43U | <0.43U | <0.43U | <0.43U | <0.43U |
| | Naphthalene | µg/L | <0.72U | <0.71U | <0.72U | <0.76U | <0.76U | <0.76U | <0.76U | <0.76U |
| | Nitrobenzene | µg/L | <0.27U | <0.27U | <0.28U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | <0.51U | <0.51U | <0.51U | <0.54U | <0.54U | <0.54U | <0.54U | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | <0.48U | <0.48U | <0.48U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | Pentachlorophenol | µg/L | <2.1U | <2.1U | <2.1U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U |
| | Phenanthrene | µg/L | <0.42U | <0.41U | <0.42U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Phenol | µg/L | <0.37U | <0.37U | <0.37U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Pyrene | µg/L | <0.32U | <0.32U | <0.32U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Total SVOCS | µg/L | **30** | **21** | **24** | **16** | **3.7** | **21** | **12** | **3.4** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **11** | **19** | **3.7J** | **1.9J** | <0.38U | **1.4J** | **2.9J** | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29UJ |
| | 1,2-Dichlorobenzene | µg/L | **3.9J** | **3J** | **3.2J** | **1.3J** | <0.79U | **0.83J** | **0.99J** | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21UJ | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **3.2J** | **2.7J** | **4J** | **1.8J** | <0.78U | **1.0J** | **1.4J** | **0.98J** |
| | 1,4-Dichlorobenzene | µg/L | **19** | **15** | **15** | **6.9** | **2.2J** | **4.4** | **4.5J** | **3.1J** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | **4J** | **3.2J** | **3.3J** | <3U | <3.0U | <3U | <3U |
| | Benzene | µg/L | **1.9J** | **2.3J** | <0.41U | <0.41U | <0.41U | <0.41U | **0.46J** | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **12** | **11** | **5.2** | **1.8J** | <0.75U | **1.8J** | **5.7** | **2.3J** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32UJ | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | **0.68J** | **1.7J** | **1.6J** | <0.46U | **0.53J** | **1.1J** | **<0.46U** |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.90U | <0.9U | <0.9UJ |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.90U | <0.9U | <0.9UJ |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **51** | **58** | **36** | **19** | **2.2** | **10** | **18** | **6.4** |

**MW-7M**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 12/27/2011 | 4/30/2012 | 11/20/2012 | 4/17/2013 | 10/22/2013 | 4/22/2014 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **136J** | **110J** | **101J** | **98.2** | **102J** | - |
| | Ammonia | mg/L | **0.83** | **1.3** | **1.4** | **1.1** | **1.3J** | - |
| | Nitrate+Nitrite | mg/L | <0.25UJ | <0.05U | <0.05U | <0.02U | <0.02U | - |
| | Sulfate | mg/L | **33J** | **33.8J** | **19** | **107** | <10.6U | - |
| | Total Organic Carbon | mg/L | **1.1** | <1U | <1U | **0.47J** | **0.75J** | - |
| Metals | Arsenic | µg/L | <10U | <10U | <10U | <5.6U | <5.6U | - |
| | Iron | µg/L | **5000** | **550J** | **660** | **950** | **1700** | - |
| | Manganese | µg/L | **3100** | **2600** | **2000** | **1600** | **1300** | - |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **1.8** | **1.4J** | <1.8U | **1.9** | - | **1.7J** |
| | 1,2-Dichlorobenzene | µg/L | **2.7** | **2.2** | **1.8** | **2.3** | - | **2** |
| | 1,3-Dichlorobenzene | µg/L | **1.4J** | **1.4J** | **1J** | **1.6J** | - | **1.3J** |
| | 1,4-Dichlorobenzene | µg/L | **9.6** | **10** | **7** | **8.9** | - | **7.8** |
| | 1,4-Dioxane | µg/L | **12** | **8.5J** | **8.1J** | <1U | - | **7.8J** |
| | 2,4,5-Trichlorophenol | µg/L | <9.7U | <9.4U | <9.6U | <0.45U | - | <0.45U |
| | 2,4,6-Trichlorophenol | µg/L | <3U | <2.9U | <3U | <0.58U | - | <0.57U |
| | 2,4-Dichlorophenol | µg/L | <2.7U | <2.6U | <2.7U | <0.48U | - | <0.48U |
| | 2,4-Dimethylphenol | µg/L | <2.7U | <2.6U | <2.7U | <0.47U | - | <0.47U |
| | 2,4-Dinitrophenol | µg/L | <42U | <41U | <41U | <2.1U | - | <2.1U |
| | 2,4-Dinitrotoluene | µg/L | <5.6U | <5.5U | <5.6U | <0.42U | - | <0.42U |
| | 2,6-Dinitrotoluene | µg/L | <1.8U | <1.8U | <1.8U | <0.38U | - | <0.37U |
| | 2-Chloronaphthalene | µg/L | <1.8U | <1.8U | <1.8U | <0.44U | - | <0.43U |
| | 2-Chlorophenol | µg/L | <3.2U | <3.1U | <3.2U | <0.5U | - | <0.49U |
| | 2-Methylnaphthalene | µg/L | <9.7U | <9.4U | <9.6U | <0.57U | - | <0.56U |
| | 2-Methylphenol | µg/L | <9.7U | <9.4U | <9.6U | <0.38U | - | <0.37U |
| | 2-Nitroaniline | µg/L | <9.7U | <9.4U | <9.6U | <0.4U | - | <0.39U |
| | 2-Nitrophenol | µg/L | <3.5U | <3.4U | <3.5U | <0.45U | - | <0.45U |
| | 3,3-Dichlorobenzidine | µg/L | <17U | <16U | <16U | <0.38U | - | <0.37U |
| | 3-Nitroaniline | µg/L | <9.7U | <9.4U | <9.6U | <0.45U | - | <0.45UJ |
| | 4,6-Dinitro-2-methylphenol | µg/L | <23U | <23U | <23U | <2.1U | - | <2.1U |
| | 4-Bromophenyl phenyl ether | µg/L | <1.7U | <1.7U | <1.7U | <0.43U | - | <0.42U |
| | 4-Chloro-3-Methylphenol | µg/L | <2.9U | <2.8U | <2.9U | <0.43U | - | <0.42U |
| | 4-Chloroaniline | µg/L | <1.9U | <1.9U | <1.9U | <0.56U | - | <0.55UJ |
| | 4-Chlorophenyl phenyl ether | µg/L | <4.2U | <4.1U | <4.1U | <0.33U | - | <0.33U |
| | 4-Methylphenol | µg/L | <9.7U | <9.4U | <9.6UJ | <0.34U | - | <0.34U |
| | 4-Nitroaniline | µg/L | <9.7U | <9.4U | <9.6U | <0.24U | - | <0.23U |
| | 4-Nitrophenol | µg/L | <2.9U | <2.8U | <2.9U | <1.4U | - | <1.4U |
| | Acenaphthene | µg/L | <1.7U | <1.7U | <1.7U | <0.39U | - | <0.38U |
| | Acenaphthylene | µg/L | <3.4U | <3.3U | <3.4U | <0.36U | - | <0.35U |
| | Anthracene | µg/L | <1.7U | <1.7U | <1.7U | <0.27U | - | <0.26U |
| | Benz(a)anthracene | µg/L | <7.6U | <7.4U | <7.5U | <0.34U | - | <0.34U |
| | Benzo(a)pyrene | µg/L | <2.5U | <2.5U | <2.5U | <0.45U | - | <0.44U |
| | Benzo(b)fluoranthene | µg/L | <9.7U | <9.4U | <9.6U | <0.32U | - | <0.32U |
| | Benzo(g,h,i)perylene | µg/L | <4U | <3.9U | <3.9U | <0.33U | - | <0.33UJ |
| | Benzo(k)fluoranthene | µg/L | <2.4U | <2.4U | <2.4U | <0.69U | - | <0.68U |
| | Benzoic acid | µg/L | <97U | <94U | <96U | <95U | - | <93U |
| | Benzyl alcohol | µg/L | <6.8U | <6.6U | <6.7U | <0.42U | - | <2U |
| | Bis(2-chloroethoxy) methane | µg/L | <5.1U | <5U | <5.1U | <0.33U | - | <0.33U |
| | Bis(2-chloroethyl)ether | µg/L | <5.5U | <5.4U | <5.5U | <0.38U | - | <0.37U |
| | Bis(2-chloroisopropyl) ether | µg/L | <5.5U | <5.4U | <5.5U | <0.49U | - | <0.48U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <9.7U | <9.4U | <9.6U | <1.7U | - | <1.7U |
| | Butyl benzyl phthalate | µg/L | <9.7U | <9.4U | <9.6U | <0.4U | - | <0.39U |
| | Carbazole | µg/L | <9.7U | <9.4U | <9.6UJ | <0.28U | - | <0.28U |
| | Chrysene | µg/L | <2.4U | <2.4U | <2.4U | <0.31U | - | <0.31U |
| | Dibenz(a,h)anthracene | µg/L | <9.7U | <9.4U | <9.6U | <0.4U | - | <0.39U |
| | Dibenzofuran | µg/L | <9.7U | <9.4U | <9.6U | <0.48U | - | <0.48U |
| | Diethyl phthalate | µg/L | <9.7U | <9.4U | <9.6U | <0.21U | - | <0.21U |
| | Dimethyl phthalate | µg/L | <9.7U | <9.4U | <9.6U | <0.34U | - | <0.34U |
| | Di-n-butyl phthalate | µg/L | <2.3U | <9.4U | <9.6U | <0.29U | - | <0.29U |
| | Di-n-octyl phthalate | µg/L | <9.7U | <9.4U | <9.6U | <0.45U | - | <0.44U |
| | Fluoranthene | µg/L | <2.1U | <2.1U | <2.1U | <0.38U | - | <0.37U |

**MW-7M**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 12/27/2011 | 4/30/2012 | 11/20/2012 | 4/17/2013 | 10/22/2013 | 4/22/2014 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <1.8U | <1.8U | <1.8U | <0.34U | - | <0.34U |
| | Hexachlorobenzene | µg/L | <2.1U | <2.1U | <2.1U | <0.48U | - | <0.48U |
| | Hexachlorobutadiene | µg/L | <2.5U | <2.4U | <2.5U | <0.64U | - | <0.63U |
| | Hexachlorocyclopentadiene | µg/L | <9.7U | <9.4U | <9.6U | <0.56U | - | <0.55U |
| | Hexachloroethane | µg/L | <2.7U | <2.7U | <2.7U | <0.56U | - | <0.55U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4.7U | <4.5U | <4.6U | <0.45U | - | <0.44U |
| | Isophorone | µg/L | <2.1U | <2.1U | <2.1U | <0.41U | - | <0.4U |
| | Naphthalene | µg/L | <1.6U | <1.5U | <1.5U | <0.72U | - | <0.71U |
| | Nitrobenzene | µg/L | <1.9U | <1.9U | <1.9U | <0.27U | - | <0.27U |
| | N-nitrosodi-n-propylamine | µg/L | <4.9U | <4.7U | <4.8U | <0.51U | - | <0.5U |
| | N-Nitrosodiphenylamine | µg/L | <1.8U | <1.8U | <1.8U | <0.48U | - | <0.48U |
| | Pentachlorophenol | µg/L | <5U | <4.8U | <4.9U | <2.1U | - | <2.1U |
| | Phenanthrene | µg/L | <4.9U | <4.7U | <4.8U | <0.42U | - | <0.41U |
| | Phenol | µg/L | <2.4UJ | <2.4U | <2.4U | <0.37U | - | <0.36U |
| | Pyrene | µg/L | <1.8U | <1.8U | <1.8U | <0.32U | - | <0.32U |
| | Total SVOCS | µg/L | **28** | **24** | **18** | **15** | - | **21** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | <5U | <5U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <5U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **24J** | **25J** | **31** | **20** | **16** | **14** |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <5U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **2.7J** | **3J** | **2.9J** | **2.9J** | **2.9J** | **2.5J** |
| | 1,2-Dichloroethane | µg/L | <5U | <5U | **0.27J** | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <5U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **1.6J** | **1.8J** | **1.8J** | **1.8J** | **1.9J** | **1.6J** |
| | 1,4-Dichlorobenzene | µg/L | **10** | **12** | **12** | **12** | **11** | **10** |
| | 2-Butanone | µg/L | <5U | <5U | <5U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <5U | <5U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <5U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <10U | <10U | <10U | <3U | <3U | <3U |
| | Benzene | µg/L | **0.63J** | **0.68J** | **0.65J** | **0.55J** | **0.51J** | **0.44J** |
| | Dichlorobromomethane | µg/L | <5U | <5U | <5U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <5U | <5U | <5U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <5U | <5U | <5U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <5U | <5U | <5U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <5U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **6.3** | **7.7J** | **7** | **6.5** | **6** | **5.1** |
| | Chlorodibromomethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | **1.6J** | **3.6J** | **5.9** | **2.7J** | <0.32U | <0.32U |
| | Chloroform | µg/L | <5U | <5U | <5U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <5U | <5U | <5U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **1.9** | **2.1J** | **2.5** | **2.2** | **2.1** | **1.8** |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <5U | <5U | <5U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <5U | <5U | <5U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <5U | <5U | <5U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <5U | <5U | <5U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <5U | <5U | <5UJ | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <5U | <5U | <5U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <5U | <5U | <5U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **49** | **56** | **65** | **49** | **41** | **36** |

**MW-7M**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/21/2014 | 4/21/2015 | 10/20/2015 | 5/16/2016 | 10/28/2016 | 4/24/2017 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **99** | **95** | **94.5J** | **97.8** | **97.8** | **99.3** |
| | Ammonia | mg/L | **1.6** | **1.6** | **1.7** | **1.6** | **1.5** | **1.8** |
| | Nitrate+Nitrite | mg/L | <0.02UJ | <0.02U | <0.02U | <0.02U | <0.02U | <0.02U |
| | Sulfate | mg/L | **7.9** | **4.8J** | **6.7** | **10** | **4.5J** | **4.4J** |
| | Total Organic Carbon | mg/L | **1.1** | **1.3** | **0.84J** | **1.4** | <1U | **1U** |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **150** | **350** | **2100** | **200** | **2400** | **130J** |
| | Manganese | µg/L | **1100** | **1200J** | **1100** | **1200** | **1200** | **1500** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | **1.4J** | - | **1.7J** | - | **1.7J** |
| | 1,2-Dichlorobenzene | µg/L | - | **1.8** | - | **2.1** | - | **2.1** |
| | 1,3-Dichlorobenzene | µg/L | - | **1.2J** | - | **1.3J** | - | **1.4J** |
| | 1,4-Dichlorobenzene | µg/L | - | **7** | - | **7.4** | - | **8.1** |
| | 1,4-Dioxane | µg/L | - | **6.6J** | - | **4.9J** | - | **8.7J** |
| | 2,4,5-Trichlorophenol | µg/L | - | <0.44U | - | <0.45U | - | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | - | <0.55U | - | <0.57U | - | <0.61U |
| | 2,4-Dichlorophenol | µg/L | - | <0.46U | - | <0.48U | - | <0.51U |
| | 2,4-Dimethylphenol | µg/L | - | <0.45U | - | <0.47U | - | <0.5U |
| | 2,4-Dinitrophenol | µg/L | - | <2U | - | <2.1U | - | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | - | <0.41U | - | <0.42U | - | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | - | <0.36U | - | <0.37U | - | <0.4U |
| | 2-Chloronaphthalene | µg/L | - | <0.42U | - | <0.43U | - | <0.46U |
| | 2-Chlorophenol | µg/L | - | <0.48U | - | <0.49U | - | <0.53U |
| | 2-Methylnaphthalene | µg/L | - | <0.54U | - | <0.56U | - | <0.6U |
| | 2-Methylphenol | µg/L | - | <0.36U | - | <0.37U | - | <0.4U |
| | 2-Nitroaniline | µg/L | - | <0.38U | - | <0.39U | - | <0.42U |
| | 2-Nitrophenol | µg/L | - | <0.44U | - | <0.45U | - | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | - | <0.36U | - | <0.37U | - | <0.4U |
| | 3-Nitroaniline | µg/L | - | <0.44U | - | <0.45U | - | <0.48U |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | <2U | - | <2.1U | - | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | - | <0.41U | - | <0.42U | - | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | - | <0.41U | - | <0.42U | - | <0.45U |
| | 4-Chloroaniline | µg/L | - | <0.54U | - | <0.55U | - | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | - | <0.32U | - | <0.33U | - | <0.35U |
| | 4-Methylphenol | µg/L | - | <0.33U | - | <0.34U | - | <0.36U |
| | 4-Nitroaniline | µg/L | - | <0.23UJ | - | <0.23U | - | <0.25U |
| | 4-Nitrophenol | µg/L | - | <1.4U | - | <1.4U | - | <1.5U |
| | Acenaphthene | µg/L | - | <0.37U | - | <0.38U | - | <0.41U |
| | Acenaphthylene | µg/L | - | <0.34U | - | <0.35U | - | <0.38U |
| | Anthracene | µg/L | - | <0.25U | - | <0.26U | - | <0.28U |
| | Benz(a)anthracene | µg/L | - | <0.33U | - | <0.34U | - | <0.36U |
| | Benzo(a)pyrene | µg/L | - | <0.43U | - | <0.44U | - | <0.47U |
| | Benzo(b)fluoranthene | µg/L | - | <0.31U | - | <0.32U | - | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | - | <0.32U | - | <0.33U | - | <0.35U |
| | Benzo(k)fluoranthene | µg/L | - | <0.66U | - | <0.68U | - | <0.73U |
| | Benzoic acid | µg/L | - | <91U | - | - | - | <100U |
| | Benzyl alcohol | µg/L | - | <6.3U | - | <0.41U | - | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | - | <0.32U | - | <0.33U | - | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | - | <0.36U | - | <0.37U | - | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | - | <0.47U | - | <0.48U | - | <0.52U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | <1.6U | - | <1.7U | - | <1.8U |
| | Butyl benzyl phthalate | µg/L | - | <9.1U | - | <0.39U | - | <0.42U |
| | Carbazole | µg/L | - | <0.27U | - | <0.28U | - | <0.3U |
| | Chrysene | µg/L | - | <0.3U | - | <0.31U | - | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | - | <0.38U | - | <0.39U | - | <0.42U |
| | Dibenzofuran | µg/L | - | <0.46U | - | <0.48U | - | <0.51U |
| | Diethyl phthalate | µg/L | - | <0.2U | - | <0.21U | - | <0.22U |
| | Dimethyl phthalate | µg/L | - | <0.33U | - | <0.34U | - | <0.36U |
| | Di-n-butyl phthalate | µg/L | - | <0.28U | - | <0.29U | - | <0.31U |
| | Di-n-octyl phthalate | µg/L | - | <0.43U | - | <0.44U | - | <0.47U |
| | Fluoranthene | µg/L | - | <0.36U | - | <0.37U | - | <0.4U |

**MW-7M**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/21/2014 | 4/21/2015 | 10/20/2015 | 5/16/2016 | 10/28/2016 | 4/24/2017 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | - | <0.33U | - | <0.34U | - | <0.36U |
| | Hexachlorobenzene | µg/L | - | <0.46U | - | <0.48U | - | <0.51U |
| | Hexachlorobutadiene | µg/L | - | <0.62U | - | <0.63U | - | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | - | <0.54U | - | <0.55U | - | <0.59U |
| | Hexachloroethane | µg/L | - | <0.54U | - | <0.55U | - | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | <0.43U | - | <0.44U | - | <0.47U |
| | Isophorone | µg/L | - | <0.39U | - | <0.4U | - | <0.43U |
| | Naphthalene | µg/L | - | <0.69U | - | <0.71U | - | <0.76U |
| | Nitrobenzene | µg/L | - | <0.26U | - | <0.27U | - | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | - | <0.49U | - | <0.5U | - | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | - | <0.46U | - | <0.48U | - | <0.51U |
| | Pentachlorophenol | µg/L | - | <2U | - | <2.1U | - | <2.2U |
| | Phenanthrene | µg/L | - | <0.4U | - | <0.41U | - | <0.44U |
| | Phenol | µg/L | - | <0.35U | - | <0.36U | - | <0.39U |
| | Pyrene | µg/L | - | <0.31U | - | <0.32U | - | <0.34U |
| | Total SVOCS | µg/L | - | **18** | - | **18** | - | **22** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82UJ | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **15** | **14** | **12** | **9** | **11** | **12** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **2.3J** | **2.3J** | **2.2J** | **2.4J** | **2.1J** | **2.3J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21UJ | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **1.4J** | **1.4J** | **1.3J** | **1.5J** | **1.3J** | **1.3J** |
| | 1,4-Dichlorobenzene | µg/L | **9.8** | **8.9** | **8.7** | **9.6** | **8.1** | **8.8** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | **3.3J** |
| | Benzene | µg/L | <0.41U | **0.43J** | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **5** | **5.1** | **4.5J** | **5.1** | **4.6J** | **6** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | **0.44J** | **0.68J** | <0.32U | <0.32U | <0.32U | <0.32UJ |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **2.1** | **1.7** | **1.5** | **1.4** | **1.6** | **1.6** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **0.52J** | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9UJ | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **37** | **35** | **31** | **29** | **29** | **36** |

**MW-7M**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/18/2017 | 5/8/2018 | 10/16/2018 | 4/22/2019 | 10/7/2019 | 4/29/2020 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **105** | **96.4** | **91.4** | **91.4** | **95.7** | 87.5 |
| | Ammonia | mg/L | **1.8** | **2** | **1.6** | **1.9** | **1.7** | 1.7 |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.02U | <0.02U | <0.02U | **0.082** | 0.024J |
| | Sulfate | mg/L | **7.6** | **7.9** | **7.7** | **6** | **14.8** | 18.6 |
| | Total Organic Carbon | mg/L | **1.3** | <0.8U | **1.1** | **1J** | **0.7J** | 0.86J |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **59J** | **300** | **400** | **310** | **1,500** | 1,100 |
| | Manganese | µg/L | **1400** | **1600** | **1500** | **1,600** | **1,400** | 1,300 |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | **1.7J** | - | **1.5J** | - | **1.9J** |
| | 1,2-Dichlorobenzene | µg/L | - | **2.2** | - | **1.9** | - | **2.5J** |
| | 1,3-Dichlorobenzene | µg/L | - | **1.4J** | - | **1.3J** | - | **1.7J** |
| | 1,4-Dichlorobenzene | µg/L | - | **8.5** | - | **7.7** | - | **10** |
| | 1,4-Dioxane | µg/L | - | <1.1U | - | **8.2J** | - | **8.5J** |
| | 2,4,5-Trichlorophenol | µg/L | - | <0.48U | - | <0.48U | - | <0.5U |
| | 2,4,6-Trichlorophenol | µg/L | - | <0.61U | - | <0.61U | - | <0.64U |
| | 2,4-Dichlorophenol | µg/L | - | <0.51U | - | <0.51U | - | <0.53U |
| | 2,4-Dimethylphenol | µg/L | - | <0.5U | - | <0.5U | - | <0.52U |
| | 2,4-Dinitrophenol | µg/L | - | <2.2U | - | <2.2U | - | <2.3U |
| | 2,4-Dinitrotoluene | µg/L | - | <0.45U | - | <0.45U | - | <0.47U |
| | 2,6-Dinitrotoluene | µg/L | - | <0.4U | - | <0.4U | - | <0.42U |
| | 2-Chloronaphthalene | µg/L | - | <0.46U | - | <0.46U | - | <0.48U |
| | 2-Chlorophenol | µg/L | - | <0.53U | - | <0.53U | - | <0.55U |
| | 2-Methylnaphthalene | µg/L | - | <0.6U | - | <0.6U | - | <0.63U |
| | 2-Methylphenol | µg/L | - | <0.4U | - | <0.4U | - | <0.42U |
| | 2-Nitroaniline | µg/L | - | <0.42U | - | <0.42U | - | <0.44U |
| | 2-Nitrophenol | µg/L | - | <0.48U | - | <0.48U | - | <0.5U |
| | 3,3-Dichlorobenzidine | µg/L | - | <0.4U | - | <0.4U | - | <0.42U |
| | 3-Nitroaniline | µg/L | - | <0.48U | - | <0.48U | - | <0.5U |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | <2.2U | - | <2.2U | - | <2.3U |
| | 4-Bromophenyl phenyl ether | µg/L | - | <0.45U | - | <0.45U | - | <0.47U |
| | 4-Chloro-3-Methylphenol | µg/L | - | <0.45U | - | <0.45U | - | <0.47U |
| | 4-Chloroaniline | µg/L | - | <0.59U | - | <0.59U | - | <0.61U |
| | 4-Chlorophenyl phenyl ether | µg/L | - | <0.35U | - | <0.35U | - | <0.36U |
| | 4-Methylphenol | µg/L | - | <0.36U | - | <0.36U | - | <0.38U |
| | 4-Nitroaniline | µg/L | - | <0.25U | - | <0.25U | - | <0.26U |
| | 4-Nitrophenol | µg/L | - | <1.5U | - | <1.5U | - | <1.6U |
| | Acenaphthene | µg/L | - | <0.41U | - | <0.41U | - | <0.43U |
| | Acenaphthylene | µg/L | - | <0.38U | - | <0.38U | - | <0.4U |
| | Anthracene | µg/L | - | <0.28U | - | <0.28U | - | <0.29U |
| | Benz(a)anthracene | µg/L | - | <0.36U | - | <0.36U | - | <0.38U |
| | Benzo(a)pyrene | µg/L | - | <0.47U | - | <0.47U | - | <0.49U |
| | Benzo(b)fluoranthene | µg/L | - | <0.34U | - | <0.34U | - | <0.35U |
| | Benzo(g,h,i)perylene | µg/L | - | <0.35U | - | <0.35U | - | <0.36U |
| | Benzo(k)fluoranthene | µg/L | - | <0.73U | - | <0.73U | - | <0.76U |
| | Benzoic acid | µg/L | - | <100U | - | <100U | - | <100U |
| | Benzyl alcohol | µg/L | - | <0.44U | - | <0.44U | - | <0.46U |
| | Bis(2-chloroethoxy) methane | µg/L | - | <0.35U | - | <0.35U | - | <0.36U |
| | Bis(2-chloroethyl)ether | µg/L | - | <0.4U | - | <0.4U | - | <0.42U |
| | Bis(2-chloroisopropyl) ether | µg/L | - | <0.52U | - | <0.52U | - | <0.54U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | <1.8U | - | <1.8U | - | <1.9U |
| | Butyl benzyl phthalate | µg/L | - | <0.42U | - | <0.42U | - | <0.44U |
| | Carbazole | µg/L | - | <0.3U | - | <0.3U | - | <0.31U |
| | Chrysene | µg/L | - | <0.33U | - | <0.33U | - | <0.34U |
| | Dibenz(a,h)anthracene | µg/L | - | <0.42U | - | <0.42U | - | <0.44U |
| | Dibenzofuran | µg/L | - | <0.51U | - | <0.51U | - | <0.53U |
| | Diethyl phthalate | µg/L | - | <0.22U | - | <0.22U | - | <0.23U |
| | Dimethyl phthalate | µg/L | - | <0.36U | - | <0.36U | - | <0.38U |
| | Di-n-butyl phthalate | µg/L | - | <0.31U | - | <0.31U | - | <0.32U |
| | Di-n-octyl phthalate | µg/L | - | <0.47U | - | <0.47U | - | <0.49U |
| | Fluoranthene | µg/L | - | <0.4U | - | <0.4U | - | <0.42U |

**MW-7M**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/18/2017 | 5/8/2018 | 10/16/2018 | 4/22/2019 | 10/7/2019 | 4/29/2020 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | - | <0.36U | - | <0.36U | - | <0.38U |
| | Hexachlorobenzene | µg/L | - | <0.51U | - | <0.51U | - | <0.53U |
| | Hexachlorobutadiene | µg/L | - | <0.68U | - | <0.68U | - | <0.71U |
| | Hexachlorocyclopentadiene | µg/L | - | <0.59U | - | <0.59U | - | <0.61U |
| | Hexachloroethane | µg/L | - | <0.59U | - | <0.59U | - | <0.61U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | <0.47U | - | <0.47U | - | <0.49U |
| | Isophorone | µg/L | - | <0.43U | - | <0.43U | - | <0.45U |
| | Naphthalene | µg/L | - | <0.76U | - | <0.76U | - | <0.79U |
| | Nitrobenzene | µg/L | - | <0.29U | - | <0.29U | - | <0.3U |
| | N-nitrosodi-n-propylamine | µg/L | - | <0.54U | - | <0.54U | - | <0.56U |
| | N-Nitrosodiphenylamine | µg/L | - | <0.51U | - | <0.51U | - | <0.53U |
| | Pentachlorophenol | µg/L | - | <2.2U | - | <2.2U | - | <2.3U |
| | Phenanthrene | µg/L | - | <0.44U | - | <0.44U | - | <0.46U |
| | Phenol | µg/L | - | <0.39U | - | <0.39U | - | <0.41U |
| | Pyrene | µg/L | - | <0.34U | - | <0.34U | - | <0.35U |
| | Total SVOCS | µg/L | - | **14** | - | **21** | - | **25** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **13** | **16** | **12** | **11** | **8.6** | **6.1** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **2J** | **2.4J** | **2J** | **2.1J** | **2.3J** | **2.3J** |
| | 1,2-Dichloroethane | µg/L | **0.23J** | **0.25J** | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **1.5J** | **1.6J** | **1.3J** | **1.5J** | **1.8J** | **1.6J** |
| | 1,4-Dichlorobenzene | µg/L | **8.8** | **10** | **7.8** | **9.5** | **10** | **9.7** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2UJ | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1UJ | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | **4.5J** | <3U | <3U | <3U | <3U | <3.0U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **6.3** | **7.9** | **6.5** | **7.2** | **7** | **5.3** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **1.3** | **1.5** | **1.4** | **1.3** | **1.4** | **1.5** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.47U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | **0.56J** | **0.58J** | <0.46U | <0.46U | **0.51J** |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.90U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.90U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **38** | **41** | **32** | **33** | **32** | **28** |

**MW-7M**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/19/2020 | 4/26/2021 | 10/25/2021 | 4/19/2022 | 10/25/2022 | 4/25/2023 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **88.7** | **76.9** | **64.3** | **67.9** | **71** | **78.9** |
| | Ammonia | mg/L | **1.7** | **1.3** | **1.7** | **1.6** | **1.5** | **1.5** |
| | Nitrate+Nitrite | mg/L | <0.02U | **0.024J** | <0.071UJ | <0.02U | <0.02UJ | <0.02U |
| | Sulfate | mg/L | **18.1** | **17** | **16** | **17.4** | **17.3** | **15.1** |
| | Total Organic Carbon | mg/L | **0.67J** | **0.84J** | **0.79J** | **0.71J** | **0.84J** | **0.43J** |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **400** | **1,900** | **1,600** | **240** | **190** | **180** |
| | Manganese | µg/L | **1,300** | **1,400** | **1,300** | **1,400** | **1,400** | **1,300** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | **1.4J** | - | **0.98J** | - | **1.2J** |
| | 1,2-Dichlorobenzene | µg/L | - | **1.8J** | - | **1J** | - | **1.1J** |
| | 1,3-Dichlorobenzene | µg/L | - | **1.2J** | - | **0.74J** | - | **0.81J** |
| | 1,4-Dichlorobenzene | µg/L | - | **6.9** | - | **3.9J** | - | **4.7** |
| | 1,4-Dioxane | µg/L | - | **4.7J** | - | **2.6J** | - | **3.1J** |
| | 2,4,5-Trichlorophenol | µg/L | - | <0.48U | - | <0.48U | - | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | - | <0.61U | - | <0.61U | - | <0.61U |
| | 2,4-Dichlorophenol | µg/L | - | <0.51U | - | <0.51U | - | <0.51U |
| | 2,4-Dimethylphenol | µg/L | - | <0.5U | - | <0.5U | - | <0.5U |
| | 2,4-Dinitrophenol | µg/L | - | <2.2U | - | <2.2U | - | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | - | <0.45U | - | <0.45U | - | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | - | <0.4U | - | <0.4U | - | <0.4U |
| | 2-Chloronaphthalene | µg/L | - | <0.46U | - | <0.46U | - | <0.46U |
| | 2-Chlorophenol | µg/L | - | <0.53U | - | <0.53U | - | <0.53U |
| | 2-Methylnaphthalene | µg/L | - | <0.6U | - | <0.6U | - | <0.6U |
| | 2-Methylphenol | µg/L | - | <0.4U | - | <0.4U | - | <0.4U |
| | 2-Nitroaniline | µg/L | - | <0.42U | - | <0.42U | - | <0.42U |
| | 2-Nitrophenol | µg/L | - | <0.48U | - | <0.48U | - | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | - | <0.4U | - | <0.4U | - | <0.4U |
| | 3-Nitroaniline | µg/L | - | <0.48U | - | <0.48U | - | <0.48U |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | <2.2U | - | <2.2U | - | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | - | <0.45U | - | <0.45U | - | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | - | <0.45U | - | <0.45U | - | <0.45U |
| | 4-Chloroaniline | µg/L | - | <0.59U | - | <0.59U | - | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | - | <0.35U | - | <0.35U | - | <0.35U |
| | 4-Methylphenol | µg/L | - | <0.36U | - | <0.36U | - | <0.36U |
| | 4-Nitroaniline | µg/L | - | <0.25U | - | <0.25U | - | <0.25U |
| | 4-Nitrophenol | µg/L | - | <1.5U | - | <1.5U | - | <1.5U |
| | Acenaphthene | µg/L | - | <0.41U | - | <0.41U | - | <0.41U |
| | Acenaphthylene | µg/L | - | <0.38U | - | <0.38U | - | <0.38U |
| | Anthracene | µg/L | - | <0.28U | - | <0.28U | - | <0.28U |
| | Benz(a)anthracene | µg/L | - | <0.36U | - | <0.36U | - | <0.36U |
| | Benzo(a)pyrene | µg/L | - | <0.47U | - | <0.47U | - | <0.47U |
| | Benzo(b)fluoranthene | µg/L | - | <0.34U | - | <0.34U | - | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | - | <0.35U | - | <0.35U | - | <0.35U |
| | Benzo(k)fluoranthene | µg/L | - | <0.73U | - | <0.73U | - | <0.73U |
| | Benzoic acid | µg/L | - | <100U | - | <100U | - | <100U |
| | Benzyl alcohol | µg/L | - | <0.44U | - | <0.44U | - | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | - | <0.35U | - | <0.35U | - | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | - | <0.4U | - | <0.4U | - | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | - | <0.52U | - | <0.52U | - | <0.52U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | <1.8U | - | <1.8U | - | <1.8U |
| | Butyl benzyl phthalate | µg/L | - | <0.42U | - | <10U | - | <0.42U |
| | Carbazole | µg/L | - | <0.3U | - | <0.3U | - | <0.3U |
| | Chrysene | µg/L | - | <0.33U | - | <0.33U | - | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | - | <0.42U | - | <0.42U | - | <0.42U |
| | Dibenzofuran | µg/L | - | <0.51U | - | <0.51U | - | <0.51U |
| | Diethyl phthalate | µg/L | - | <0.22U | - | <0.22U | - | <0.22U |
| | Dimethyl phthalate | µg/L | - | <0.36U | - | <0.36U | - | <0.36U |
| | Di-n-butyl phthalate | µg/L | - | <0.31U | - | <10U | - | **0.44J** |
| | Di-n-octyl phthalate | µg/L | - | <0.47U | - | <0.47U | - | <0.47U |
| | Fluoranthene | µg/L | - | <0.4U | - | <0.4U | - | <0.4U |

**MW-7M**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/19/2020 | 4/26/2021 | 10/25/2021 | 4/19/2022 | 10/25/2022 | 4/25/2023 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | - | <0.36U | - | <0.36U | - | <0.36U |
| | Hexachlorobenzene | µg/L | - | <0.51U | - | <0.51U | - | <0.51U |
| | Hexachlorobutadiene | µg/L | - | <0.68U | - | <0.68U | - | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | - | <0.59U | - | <0.59U | - | <0.59U |
| | Hexachloroethane | µg/L | - | <0.59U | - | <0.59U | - | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | <0.47U | - | <0.47U | - | <0.47U |
| | Isophorone | µg/L | - | <0.43U | - | <0.43U | - | <0.43U |
| | Naphthalene | µg/L | - | <0.76U | - | <0.76U | - | <0.76U |
| | Nitrobenzene | µg/L | - | <0.29U | - | <0.29U | - | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | - | <0.54U | - | <0.54U | - | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | - | <0.51U | - | <0.51U | - | <0.51U |
| | Pentachlorophenol | µg/L | - | <2.2U | - | <2.2U | - | <2.2U |
| | Phenanthrene | µg/L | - | <0.44U | - | <0.44U | - | <0.44U |
| | Phenol | µg/L | - | <0.39U | - | <0.39U | - | <0.39U |
| | Pyrene | µg/L | - | <0.34U | - | <0.34U | - | <0.34U |
| | Total SVOCS | µg/L | - | **16** | - | **9.3** | - | **12** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **5.0** | **5.1** | **3.4J** | **2.6J** | **2.1J** | **1.6J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **1.8J** | **2.2J** | **1.9J** | **1.7J** | **1.2J** | **1.4J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **1.3J** | **1.5J** | **1.3J** | **1.3J** | **0.88J** | **1.1J** |
| | 1,4-Dichlorobenzene | µg/L | **8.0** | **9.2** | **7.7** | **6.9** | **5** | **6** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3.0U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **4.1J** | **4.2J** | **2.9J** | **2.4J** | **1.9J** | **2.1J** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **1.5** | **1.6** | **1.2** | **1.2** | **1** | **1.1** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **0.65J** | **0.8J** | **0.77J** | **0.61J** | **0.57J** | **0.57J** |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.90U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.90U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **23** | **25** | **20** | **17** | **13** | **14** |

**MW-7M**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M |
|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/30/2023 | 4/30/2024 | 10/28/2024 | 4/21/2025 | 10/22/2025 |
| | Parameters | Units | | | | | |
| General Chemistry | Alkalinity | mg/L | **63.6** | **60.4J-** | **66.8** | **53.7** | **67.2** |
| | Ammonia | mg/L | **1.6** | **1.6** | **1.5** | **1.4** | **1.4** |
| | Nitrate+Nitrite | mg/L | <0.05U | <0.02U | **0.043J** | <0.02U | <0.02U |
| | Sulfate | mg/L | **10.9** | **10.7** | **12.2** | **12.8** | **9.4** |
| | Total Organic Carbon | mg/L | <0.43U | **0.78J** | <0.43U | **1.1** | <0.43U |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **320** | **390** | **700** | <33U | **34J** |
| | Manganese | µg/L | **1,200** | **1,400** | **1,100** | **1,300** | **1,200** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | **0.9J** | - | <1.3U | - |
| | 1,2-Dichlorobenzene | µg/L | - | **0.83J** | - | **0.8J** | - |
| | 1,3-Dichlorobenzene | µg/L | - | **0.66J** | - | **0.58J** | - |
| | 1,4-Dichlorobenzene | µg/L | - | **3.2J** | - | **2.9J** | - |
| | 1,4-Dioxane | µg/L | - | **3.2J** | - | **2J** | - |
| | 2,4,5-Trichlorophenol | µg/L | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | - | <2.2UJ | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | - | <0.4U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | - | <0.42U | - | <0.42UJ | - |
| | 2-Nitrophenol | µg/L | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | - | <0.4U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | - | <0.48U | - | <0.48UJ | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | <0.45U | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | - | <0.35UJ | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | - | <0.4UJ | - | <0.4UJ | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | <0.52U | - | <0.52UJ | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | - | <0.42U | - | <0.42U | - |
| | Carbazole | µg/L | - | <0.3U | - | <0.3U | - |
| | Chrysene | µg/L | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | - | <0.22U | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | - | <0.31U | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | - | <0.47U | - | <0.47U | - |
| | Fluoranthene | µg/L | - | <0.4U | - | <0.4U | - |

**MW-7M**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-7M | MW-7M | MW-7M | MW-7M | MW-7M |
|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/30/2023 | 4/30/2024 | 10/28/2024 | 4/21/2025 | 10/22/2025 |
| | Parameters | Units | | | | | |
| Semivolatile Organics | Fluorene | µg/L | - | <0.36U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | - | <0.59UJ | - | <0.59U | - |
| | Hexachloroethane | µg/L | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | <0.47UJ | - | <0.47U | - |
| | Isophorone | µg/L | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | - | <0.54U | - | <0.54UJ | - |
| | N-Nitrosodiphenylamine | µg/L | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | - | <2.2U | - | <2.2U | - |
| | Phenanthrene | µg/L | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | - | <0.39U | - | <0.39UJ | - |
| | Pyrene | µg/L | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | - | **8.8** | - | **6.3** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **0.94J** | **1.3J** | **1.1J** | **1.2J** | **0.77J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29UJ | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **1.1J** | **1.1J** | **0.99J** | **1.1J** | **0.82J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **0.86J** | **0.95J** | **0.83J** | **0.9J** | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | **4.4J** | **5.1** | **4.3J** | **4.3J** | **3.2J** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27UJ | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **1.4J** | **2J** | **1.7J** | **1.9J** | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | **0.9J** | **0.84J** | **0.85J** | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | **0.49J** | **0.5J** | **0.52J** | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **8.7** | **12** | **11** | **11** | **4.8** |

# MW-10
## HISTORICAL GROUNDWATER MONITORING DATA

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 7/24/2008 | 10/22/2008 | 4/27/2009 | 7/17/2009 | 10/29/2009 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **176** | **120** | **95.5** | **162** | **158** | **122** |
| | Ammonia | mg/L | **5.6** | **3.4** | **2.9** | **4.47** | **3.6** | **3.22** |
| | Nitrate+Nitrite | mg/L | <0.1U | <0.1U | <0.1U | **0.02J** | <0.02U | **0.04J** |
| | Sulfate | mg/L | <5U | **12.5** | **23** | <7.1U | **6.4** | **15.7** |
| | Total Organic Carbon | mg/L | **4.7** | **4** | **3.2** | **2.8** | <4.4U | **3.4** |
| Metals | Arsenic | µg/L | **59** | **57** | **57.3** | **77.7** | **54** | **74.7** |
| | Iron | µg/L | **52,500** | **35,000** | **27,000J** | **62,800** | **29,900** | **45,800** |
| | Manganese | µg/L | **22,100** | **17,800J** | **15,200J** | **18,300** | **14,600** | **15,600** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <0.3U | <1U | <1U | <0.71U | <0.11U | **1.8J** |
| | 1,2-Dichlorobenzene | µg/L | **5** | <0.9U | **0.6J** | **1.9** | <1.4U | **0.81J** |
| | 1,3-Dichlorobenzene | µg/L | **0.8J** | <1U | <1U | <1.1U | <0.13U | <0.47U |
| | 1,4-Dichlorobenzene | µg/L | <15U | <2U | **1J** | **3.5J** | **1.2J** | **1.7J** |
| | 1,4-Dioxane | µg/L | **530** | **34** | **11** | **64J** | **14** | **5.8J** |
| | 2,4,5-Trichlorophenol | µg/L | <10U | <10U | <10U | <2.6U | <0.94U | <0.47U |
| | 2,4,6-Trichlorophenol | µg/L | <3U | <3U | <3U | <2.9U | <0.95U | <0.6U |
| | 2,4-Dichlorophenol | µg/L | <2U | <2U | <2U | <0.8U | <0.75U | <0.5U |
| | 2,4-Dimethylphenol | µg/L | <2U | <2U | <2U | <1.6U | <0.92U | <0.49U |
| | 2,4-Dinitrophenol | µg/L | <43U | <43U | <43U | <2U | <2.1U | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | <5U | <5U | <5U | <1.2U | <0.43U | <0.44U |
| | 2,6-Dinitrotoluene | µg/L | <1U | <1U | <1U | <1.7U | <0.49U | <0.39U |
| | 2-Chloronaphthalene | µg/L | <1U | <1U | <1U | <1.4U | <0.08U | <0.45U |
| | 2-Chlorophenol | µg/L | <3U | <3U | <3U | <1U | <0.48U | <0.52U |
| | 2-Methylnaphthalene | µg/L | **0.4J** | <10U | <10U | <1U | <0.078U | <0.59U |
| | 2-Methylphenol | µg/L | <10U | <10U | <10U | <2.4U | <0.22U | <0.39U |
| | 2-Nitroaniline | µg/L | <10U | <10U | <10U | <1.4U | <0.47U | <0.41U |
| | 2-Nitrophenol | µg/L | <3U | <3U | <3U | <1.4U | <0.57U | <0.47U |
| | 3,3-Dichlorobenzidine | µg/L | <17U | <17U | <17U | <1.5U | <0.36U | <0.39U |
| | 3-Nitroaniline | µg/L | <10U | <10U | <10U | <1.8U | <1.5U | <0.47U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <24U | <24U | <24U | <1.8U | <2.2U | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <1U | <1U | <1U | <1.7U | <0.86U | <0.44U |
| | 4-Chloro-3-Methylphenol | µg/L | <3U | <3U | <3U | <1U | <0.57U | <0.44U |
| | 4-Chloroaniline | µg/L | <2U | <2U | <2U | <0.94U | <0.31U | <0.58U |
| | 4-Chlorophenyl phenyl ether | µg/L | <4U | <4U | <4U | <1.3U | <0.16U | <0.34U |
| | 4-Methylphenol | µg/L | <10U | <10U | <10U | <0.55U | <0.55U | <0.35U |
| | 4-Nitroaniline | µg/L | <10U | <10U | <10U | <2.7U | <0.43U | <0.25U |
| | 4-Nitrophenol | µg/L | <3U | <3U | <3U | <2.8U | <1.4U | <1.5U |
| | Acenaphthene | µg/L | **0.4J** | <1U | <1U | <1.3U | <0.11U | <0.4U |
| | Acenaphthylene | µg/L | <3U | <3U | <3U | <1.1U | <0.045U | <0.37U |
| | Anthracene | µg/L | <1U | <1U | <1U | <1.4U | <0.053U | <0.27U |
| | Benz(a)anthracene | µg/L | <7U | <7U | <7U | <1.5U | <0.061U | <0.35U |
| | Benzo(a)pyrene | µg/L | <2U | <2U | <2U | <1.5U | <0.087U | <0.46U |
| | Benzo(b)fluoranthene | µg/L | <10U | <10U | <10U | <2.8U | <0.06U | <0.33U |
| | Benzo(g,h,i)perylene | µg/L | <4U | <4U | <4U | <2.8U | <0.074U | <0.34U |
| | Benzo(k)fluoranthene | µg/L | <2U | <0.4U | <2U | <1.3U | <0.063U | <0.72U |
| | Benzoic acid | µg/L | <95U | <96U | <100U | <47U | <95U | <98U |
| | Benzyl alcohol | µg/L | <7U | <7U | <7U | <4.7U | <0.28U | <0.43U |
| | Bis(2-chloroethoxy) methane | µg/L | <5U | <5U | <5U | <1.1U | <0.36U | <0.34U |
| | Bis(2-chloroethyl)ether | µg/L | <5U | <5U | <5U | <1.6U | <0.17U | <0.39U |
| | Bis(2-chloroisopropyl) ether | µg/L | <5U | <5U | <5U | <0.94U | <3.8U | <0.51U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <10U | <10U | <10U | <2.1U | <4.5U | <1.8U |
| | Butyl benzyl phthalate | µg/L | <10U | <10U | <10U | <1.5U | <1.7U | <0.41U |
| | Carbazole | µg/L | <10U | <10U | <10U | <0.084U | <0.085U | <0.29U |
| | Chrysene | µg/L | <2U | <0.7U | <2U | <1.6U | <0.26U | <0.32U |
| | Dibenz(a,h)anthracene | µg/L | <10U | <10U | <10U | <1.7U | <0.19U | <0.41U |
| | Dibenzofuran | µg/L | <10U | <10U | <10U | <1.5U | <1.5U | <0.5U |
| | Diethyl phthalate | µg/L | **0.4J** | <10U | <10U | <1.6U | <0.1U | <0.22U |
| | Dimethyl phthalate | µg/L | <10U | <10U | <10U | <1.1U | <0.29U | <0.35U |
| | Di-n-butyl phthalate | µg/L | <10U | <10U | <10U | <1.4U | <0.28U | <0.3U |
| | Di-n-octyl phthalate | µg/L | <10U | <10U | <3U | <1.7U | <0.23U | <0.46U |

**MW-10**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 7/24/2008 | 10/22/2008 | 4/27/2009 | 7/17/2009 | 10/29/2009 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluoranthene | µg/L | <2U | <2U | <2U | <1.9U | <0.093U | <0.39U |
| | Fluorene | µg/L | <1U | <1U | <1U | <1.7U | <0.07U | <0.35U |
| | Hexachlorobenzene | µg/L | <1U | <1U | <1U | <2.1U | <0.42U | <0.5U |
| | Hexachlorobutadiene | µg/L | <2U | <2U | <3U | <1.1U | <2.5U | <0.67U |
| | Hexachlorocyclopentadiene | µg/L | <10U | <10U | <10U | <1.8U | <2.4U | <0.58U |
| | Hexachloroethane | µg/L | <3U | <3U | <5U | <0.8U | <2.7U | <0.58U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4U | <4U | <4U | <3U | <0.15U | <0.46U |
| | Isophorone | µg/L | <2U | <2U | <2U | <1.1U | <0.3U | <0.42U |
| | Naphthalene | µg/L | **9** | <1U | <1U | <1.2U | <0.11U | <0.75U |
| | Nitrobenzene | µg/L | <2U | <2U | <2U | <1.9U | <0.51U | <0.28U |
| | N-nitrosodi-n-propylamine | µg/L | <10U | <10U | <10U | <0.94U | <0.43U | <0.53U |
| | N-Nitrosodiphenylamine | µg/L | <1U | <1U | <1U | <1.2U | <0.25U | <0.5U |
| | Pentachlorophenol | µg/L | <5U | <5U | <5U | <3.5U | <4.9U | <2.2U |
| | Phenanthrene | µg/L | <5U | <5U | <5U | <1.3U | <0.11U | <0.43U |
| | Phenol | µg/L | <2U | <2U | <2U | <2.4U | <0.42U | <0.38U |
| | Pyrene | µg/L | <1U | <1U | <1U | <1.8U | <0.065U | <0.33U |
| | Total SVOCS | µg/L | **550** | **34** | **13** | **70** | **16** | **11** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | **2.2J** | <5U | <0.26U | <0.26U | <0.26U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <5U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **1.9J** | **1.7J** | <5U | <0.75U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <5U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **6.4** | **2J** | **0.66J** | **2.8J** | **1.2J** | **1.1J** |
| | 1,2-Dichloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <5U | <0.14U | <0.32U | <0.33U |
| | 1,3-Dichlorobenzene | µg/L | **1J** | <5U | <5U | **0.35J** | <0.36U | <0.36U |
| | 1,4-Dichlorobenzene | µg/L | **11** | **4.7J** | **1.3J** | **4.9J** | **2.6J** | **2.7J** |
| | 2-Butanone | µg/L | <5U | <5U | <5U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <5U | <5U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <5U | <0.91U | <0.91U | <0.91U |
| | Acetone | µg/L | <10U | **2.2J** | <10U | **2.3J** | <1.3U | <1.3U |
| | Benzene | µg/L | **34** | **3.2J** | **0.87J** | **9.3** | **1.9J** | **0.58J** |
| | Dichlorobromomethane | µg/L | <5U | <5U | <5U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <5U | <5U | <5U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <5U | <5U | <5U | <0.28U | <0.28U | <0.28U |
| | Carbon Disulfide | µg/L | <5U | <5U | <5U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <5U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **140** | **15** | **5.5** | **61** | **15** | **5.1** |
| | Chlorodibromomethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <5U | <5U | <5U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <5U | <5U | <5U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.92U | **71** | <1U | <0.16U | <0.38U | **1.2** |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <5U | <5U | <5U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | **5.8** | **1.4J** | <5U | <0.18U | <0.18U | **0.49J** |
| | Styrene | µg/L | <5U | <5U | <5U | <0.18U | <0.18U | <0.18U |
| | Trichloroethene | µg/L | <5U | <5U | <5U | <0.18U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <5U | **0.74J** | <5U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | **1.4J** | **63J** | <5U | <0.51U | <0.51U | **7.9** |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.13U | <0.42U | <0.42U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | **0.83J** | <5U | <5U | <0.24U | <0.24U | <0.24U |
| | Total Xylenes | µg/L | **5.5** | **4.8J** | <5U | <0.66U | <0.66U | **2J** |
| | Total VOCS | µg/L | **210** | **180** | **8.4** | **81** | **21** | **22** |

**MW-10**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 5/6/2010 | 7/22/2010 | 10/28/2010 | 4/17/2013 | 10/21/2013 | 4/21/2014 | 10/22/2014 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **155** | **101** | **95J** | **108** | **103J** | - | **66.6** |
| | Ammonia | mg/L | **3.92** | **4.22** | **2.74** | **4.5** | **2.8J** | - | **2.1J** |
| | Nitrate+Nitrite | mg/L | <0.1U | <0.1UJ | <0.1U | **0.035J** | <0.02UJ | - | <0.02UJ |
| | Sulfate | mg/L | **12.1** | **15.3** | **17.7** | **5.5** | **19.7J** | - | **15.6** |
| | Total Organic Carbon | mg/L | **5.6** | **2.1** | **3.3** | **3.5** | <1.9U | - | **2.5J** |
| Metals | Arsenic | µg/L | **55.7** | **57.2** | **54.5** | **54** | **54** | - | **52** |
| | Iron | µg/L | **42,000** | **28,700** | **23,600** | **31,500** | **24,500** | - | **29,400** |
| | Manganese | µg/L | **17,400** | **15,600** | **13,600J** | **17,700** | **14,600** | - | **16,600** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <1.8U | <1.8U | <1.8U | <0.42U | - | **0.83J** | - |
| | 1,2-Dichlorobenzene | µg/L | **3.6** | **0.54J** | <1.8U | **0.58J** | - | **1.7J** | - |
| | 1,3-Dichlorobenzene | µg/L | **0.53J** | <1.8U | <1.8U | **1.2J** | - | **0.78J** | - |
| | 1,4-Dichlorobenzene | µg/L | **6.5** | **1.2J** | **0.95J** | <0.44U | - | **6.4** | - |
| | 1,4-Dioxane | µg/L | **150** | **13** | **3.6J** | <1.1U | - | **26** | - |
| | 2,4,5-Trichlorophenol | µg/L | <9.5U | <9.7U | <9.5U | <0.46U | - | <0.45U | - |
| | 2,4,6-Trichlorophenol | µg/L | <2.9U | <3U | <3U | <0.59U | - | <0.58U | - |
| | 2,4-Dichlorophenol | µg/L | <2.7U | <2.7U | <2.7U | <0.49U | - | <0.48U | - |
| | 2,4-Dimethylphenol | µg/L | <2.7U | <2.7U | <2.7U | <0.48U | - | **1.8J** | - |
| | 2,4-Dinitrophenol | µg/L | <41U | <42U | <41U | <2.1U | - | <2.1U | - |
| | 2,4-Dinitrotoluene | µg/L | <5.5U | <5.6U | <5.5U | <0.43U | - | <0.42U | - |
| | 2,6-Dinitrotoluene | µg/L | <1.8U | <1.8U | <1.8U | <0.38U | - | <0.38U | - |
| | 2-Chloronaphthalene | µg/L | <1.8U | <1.8U | <1.8U | <0.44U | - | <0.43U | - |
| | 2-Chlorophenol | µg/L | <3.1U | <3.2U | <3.1U | <0.51U | - | <0.5U | - |
| | 2-Methylnaphthalene | µg/L | <9.5U | <9.7U | <9.5U | <0.58U | - | <0.57U | - |
| | 2-Methylphenol | µg/L | <9.5U | <9.7U | <9.5U | <0.38U | - | **0.71J** | - |
| | 2-Nitroaniline | µg/L | <9.5U | <9.7U | <9.5U | <0.4U | - | <0.4U | - |
| | 2-Nitrophenol | µg/L | <3.4U | <3.5U | <3.4U | <0.46U | - | <0.45U | - |
| | 3,3-Dichlorobenzidine | µg/L | <16U | <17U | <16U | <0.38U | - | <0.38U | - |
| | 3-Nitroaniline | µg/L | <9.5U | <9.7U | <9.5U | <0.46U | - | <0.45UJ | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <23U | <23U | <23U | <2.1U | - | <2.1U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <1.7U | <1.7U | <1.7U | <0.43U | - | <0.42U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <2.8U | <2.9U | <2.9U | <0.43U | - | <0.42U | - |
| | 4-Chloroaniline | µg/L | <1.9U | <1.9U | <1.9U | <0.57U | - | <0.56UJ | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <4.1U | <4.2U | <4.1U | <0.34U | - | <0.33U | - |
| | 4-Methylphenol | µg/L | <9.5U | <9.7U | <9.5U | <0.35U | - | **0.5J** | - |
| | 4-Nitroaniline | µg/L | <9.5U | <9.7U | <9.5U | <0.24U | - | <0.24U | - |
| | 4-Nitrophenol | µg/L | <2.8U | <2.9U | <2.9U | <1.5U | - | <1.4U | - |
| | Acenaphthene | µg/L | <1.7U | <1.7U | <1.7U | <0.39U | - | <0.39U | - |
| | Acenaphthylene | µg/L | <3.3U | <3.4U | <3.3U | <0.37U | - | <0.36U | - |
| | Anthracene | µg/L | <1.7U | <1.7U | <1.7U | <0.27U | - | <0.26U | - |
| | Benz(a)anthracene | µg/L | <7.4U | <7.6U | <7.4U | <0.35U | - | <0.34U | - |
| | Benzo(a)pyrene | µg/L | <2.5U | <2.5U | <2.5U | <0.45U | - | <0.44U | - |
| | Benzo(b)fluoranthene | µg/L | <9.5U | <9.7U | <9.5U | <0.33U | - | <0.32U | - |
| | Benzo(g,h,i)perylene | µg/L | <3.9U | <4U | <3.9U | <0.34U | - | <0.33UJ | - |
| | Benzo(k)fluoranthene | µg/L | <2.4U | <2.4U | <2.4U | <0.7U | - | <0.69U | - |
| | Benzoic acid | µg/L | <95U | <97U | <95U | <96U | - | <94U | - |
| | Benzyl alcohol | µg/L | <6.6U | <6.8U | <6.7U | <0.42U | - | <2.4U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <5U | <5.1U | <5U | <0.34U | - | <0.33U | - |
| | Bis(2-chloroethyl)ether | µg/L | <5.4U | <5.5U | <5.4U | <0.38U | - | <0.38U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <5.4U | <5.5U | <5.4U | <0.5U | - | <0.49U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <9.5U | <9.7U | <9.5UJ | <1.7U | - | <1.7U | - |
| | Butyl benzyl phthalate | µg/L | <9.5U | <9.7U | <9.5U | <0.4U | - | <0.4U | - |
| | Carbazole | µg/L | <9.5U | <9.7U | <9.5U | <0.29U | - | <0.28U | - |
| | Chrysene | µg/L | <2.4U | <2.4U | <2.4U | <0.32U | - | <0.31U | - |
| | Dibenz(a,h)anthracene | µg/L | <9.5U | <9.7U | <9.5U | <0.4U | - | <0.4U | - |
| | Dibenzofuran | µg/L | <9.5U | <9.7U | <9.5U | <0.49U | - | <0.48U | - |
| | Diethyl phthalate | µg/L | <9.5U | <9.7U | <9.5U | <0.21U | - | **0.24J** | - |
| | Dimethyl phthalate | µg/L | <9.5U | <9.7U | <9.5U | <0.35U | - | <0.34U | - |
| | Di-n-butyl phthalate | µg/L | <9.5U | <0.66U | <9.5U | <0.3U | - | <0.29U | - |
| | Di-n-octyl phthalate | µg/L | <9.5U | <9.7U | <9.5U | <0.45U | - | <0.44U | - |

**MW-10**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 5/6/2010 | 7/22/2010 | 10/28/2010 | 4/17/2013 | 10/21/2013 | 4/21/2014 | 10/22/2014 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Fluoranthene | µg/L | <2.1U | <2.1U | <2.1U | <0.38U | - | <0.38U | - |
| | Fluorene | µg/L | <1.8U | <1.8U | <1.8U | <0.35U | - | <0.34U | - |
| | Hexachlorobenzene | µg/L | <2.1U | <2.1U | <2.1U | <0.49U | - | <0.48U | - |
| | Hexachlorobutadiene | µg/L | <2.5U | <2.5U | <2.5U | <0.65U | - | <0.64U | - |
| | Hexachlorocyclopentadiene | µg/L | <9.5U | <9.7U | <9.5U | <0.57U | - | <0.56U | - |
| | Hexachloroethane | µg/L | <2.7U | <2.7U | <2.7U | <0.57U | - | <0.56U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4.5U | <4.7U | <4.6U | <0.45U | - | <0.44U | - |
| | Isophorone | µg/L | <2.1U | <2.1U | <2.1U | <0.41U | - | <0.41U | - |
| | Naphthalene | µg/L | **2** | <1.6U | <1.5U | <0.73U | - | <0.72U | - |
| | Nitrobenzene | µg/L | <1.9U | <1.9U | <1.9U | <0.28U | - | <0.27U | - |
| | N-nitrosodi-n-propylamine | µg/L | <4.7U | <4.9U | <4.8U | <0.52U | - | <0.51U | - |
| | N-Nitrosodiphenylamine | µg/L | <1.8U | <1.8U | <1.8U | <0.49U | - | <0.48U | - |
| | Pentachlorophenol | µg/L | <4.9U | <5U | <4.9U | <2.1U | - | <2.1U | - |
| | Phenanthrene | µg/L | <4.7U | <4.9U | <4.8U | <0.42U | - | <0.42U | - |
| | Phenol | µg/L | <2.4U | <2.4U | <2.4U | <0.37U | - | <0.37U | - |
| | Pyrene | µg/L | <1.8U | <1.8U | <1.8U | <0.33U | - | <0.32U | - |
| | Total SVOCS | µg/L | **170** | **15** | **4.6** | **1.8** | - | **39** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | <5U | <5U | <0.82U | <0.82U | **1.3J** | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <5U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **2J** | <5U | <5U | <0.38U | <0.38U | **4.3J** | <0.38U |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <5U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **5.1** | <5U | <5U | **0.96J** | <0.79U | **2J** | <0.79U |
| | 1,2-Dichloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <5U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **0.9J** | <5U | <5U | <0.78U | <0.78U | **1J** | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | **9.3** | **1.6J** | **1.3J** | **1.9J** | <0.84U | **7.9** | **0.85J** |
| | 2-Butanone | µg/L | <5U | <5U | <5U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <5U | <5U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <5U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <10U | <10U | <10U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | **13** | **0.91J** | **0.67J** | **1.7J** | <0.41U | **3J** | <0.41U |
| | Dichlorobromomethane | µg/L | <5U | <5U | <5U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <5U | <5U | <5U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <5U | <5U | <5U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <5U | <5U | <5U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <5U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **110** | **8.5** | **5.6** | **11** | **2.7J** | **14** | **3J** |
| | Chlorodibromomethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <5U | <5U | <5U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <5U | <5U | <5U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **1.3** | <1UJ | <1U | <0.81U | <0.81U | **8.3** | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <5U | <5U | <5U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | **3.2J** | <5U | <5U | <0.74U | <0.74U | **11** | <0.74U |
| | Styrene | µg/L | <5U | <5U | <5U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <5U | <5U | <5U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | **1.6J** | <5U | <5U | <0.51U | <0.51U | **92** | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | **1.2J** | <5U | <5U | <0.9U | <0.9U | **6** | <0.9U |
| | Total Xylenes | µg/L | **4J** | <5U | <5U | <0.66U | <0.66U | **24** | <0.66U |
| | Total VOCS | µg/L | **160** | **11** | **7.6** | **16** | **2.7** | **180** | **3.9** |

**MW-10**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/22/2015 | 7/27/2015 | 10/19/2015 | 5/16/2016 | 7/18/2016 | 10/26/2016 | 4/24/2017 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **70.1** | **7** | **32.8J** | **11.1** | **34.9** | **28.3** | **47J+** |
| | Ammonia | mg/L | **1.9** | **1.3J** | **1.5** | **2** | **1.4** | **1** | **3.2** |
| | Nitrate+Nitrite | mg/L | **0.2J** | **2.1J** | <0.02U | **0.031J** | <0.02U | **0.029J** | **0.1** |
| | Sulfate | mg/L | **49.3** | **38.6** | **26.7** | **43.7** | **30.5J** | **27.9** | **101** |
| | Total Organic Carbon | mg/L | **2.7J** | **2.2** | **1.3** | **2.3** | **1.5** | **1.3** | **2.8** |
| Metals | Arsenic | µg/L | **40** | **43** | **33** | **40** | **33** | **24** | **66** |
| | Iron | µg/L | **21,200J** | **20,000** | **15,100** | **18,500** | **13,500** | **10,200** | **32,600** |
| | Manganese | µg/L | **13,900** | **15,400J** | **12,200** | **12,600** | **10,200** | **9,700** | **21,200** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **4** | - | - | <0.41U | - | - | **0.68J** |
| | 1,2-Dichlorobenzene | µg/L | **1.5J** | - | - | **0.43J** | - | - | **1.5J** |
| | 1,3-Dichlorobenzene | µg/L | **0.83J** | - | - | <0.44U | - | - | **0.51J** |
| | 1,4-Dichlorobenzene | µg/L | **4.2** | - | - | **0.74J** | - | - | **3.7J** |
| | 1,4-Dioxane | µg/L | **39** | - | - | **22** | - | - | **110** |
| | 2,4,5-Trichlorophenol | µg/L | <0.44U | - | - | <0.44U | - | - | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | <0.56U | - | - | <0.56U | - | - | <0.61U |
| | 2,4-Dichlorophenol | µg/L | <0.46U | - | - | <0.47U | - | - | <0.51U |
| | 2,4-Dimethylphenol | µg/L | <0.46U | - | - | <0.46U | - | - | <0.5U |
| | 2,4-Dinitrophenol | µg/L | <2U | - | - | <2.1U | - | - | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | <0.41U | - | - | <0.41U | - | - | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | <0.36U | - | - | <0.37U | - | - | <0.4U |
| | 2-Chloronaphthalene | µg/L | <0.42U | - | - | <0.42U | - | - | <0.46U |
| | 2-Chlorophenol | µg/L | <0.48U | - | - | <0.49U | - | - | <0.53U |
| | 2-Methylnaphthalene | µg/L | <0.55U | - | - | <0.55U | - | - | <0.6U |
| | 2-Methylphenol | µg/L | <0.36U | - | - | <0.37U | - | - | <0.4U |
| | 2-Nitroaniline | µg/L | <0.38U | - | - | <0.39U | - | - | <0.42U |
| | 2-Nitrophenol | µg/L | <0.44U | - | - | <0.44U | - | - | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | <0.36UJ | - | - | <0.37U | - | - | <0.4U |
| | 3-Nitroaniline | µg/L | <0.44U | - | - | <0.44U | - | - | <0.48U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2U | - | - | <2U | - | - | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <0.41U | - | - | <0.42U | - | - | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | <0.41U | - | - | <0.42U | - | - | <0.45U |
| | 4-Chloroaniline | µg/L | <0.54U | - | - | <0.54U | - | - | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.32U | - | - | <0.32U | - | - | <0.35U |
| | 4-Methylphenol | µg/L | <0.33U | - | - | <0.33U | - | - | <0.36U |
| | 4-Nitroaniline | µg/L | <0.23U | - | - | <0.23U | - | - | <0.25U |
| | 4-Nitrophenol | µg/L | <1.4U | - | - | <1.4U | - | - | <1.5U |
| | Acenaphthene | µg/L | <0.37U | - | - | <0.38U | - | - | <0.41U |
| | Acenaphthylene | µg/L | <0.35U | - | - | <0.35U | - | - | <0.38U |
| | Anthracene | µg/L | <0.26U | - | - | <0.26U | - | - | <0.28U |
| | Benz(a)anthracene | µg/L | <0.33U | - | - | <0.33U | - | - | <0.36U |
| | Benzo(a)pyrene | µg/L | <0.43U | - | - | <0.43U | - | - | <0.47U |
| | Benzo(b)fluoranthene | µg/L | <0.31U | - | - | <0.31U | - | - | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | <0.32U | - | - | <0.32U | - | - | <0.35U |
| | Benzo(k)fluoranthene | µg/L | <0.67U | - | - | <0.67U | - | - | <0.73U |
| | Benzoic acid | µg/L | <91U | - | - | - | - | - | <100U |
| | Benzyl alcohol | µg/L | <6.4U | - | - | <0.41U | - | - | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | <0.32U | - | - | <0.32U | - | - | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | <0.36U | - | - | <0.37U | - | - | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.47U | - | - | <0.48U | - | - | <0.52U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.6U | - | - | <1.7U | - | - | <1.8U |
| | Butyl benzyl phthalate | µg/L | <9.1U | - | - | <0.39U | - | - | <0.42U |
| | Carbazole | µg/L | <0.27U | - | - | <0.28U | - | - | <0.3U |
| | Chrysene | µg/L | <0.3U | - | - | <0.3U | - | - | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | <0.38U | - | - | <0.39U | - | - | <0.42U |
| | Dibenzofuran | µg/L | <0.46U | - | - | <0.47U | - | - | <0.51U |
| | Diethyl phthalate | µg/L | <0.2U | - | - | <0.2U | - | - | <0.22U |
| | Dimethyl phthalate | µg/L | <0.33U | - | - | <0.33U | - | - | <0.36U |
| | Di-n-butyl phthalate | µg/L | **0.29J** | - | - | <0.29U | - | - | <0.31U |
| | Di-n-octyl phthalate | µg/L | <0.43U | - | - | <0.43U | - | - | <0.47U |

**MW-10**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/22/2015 | 7/27/2015 | 10/19/2015 | 5/16/2016 | 7/18/2016 | 10/26/2016 | 4/24/2017 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Fluoranthene | µg/L | <0.36U | - | - | <0.37U | - | - | <0.4U |
| | Fluorene | µg/L | <0.33U | - | - | <0.33U | - | - | <0.36U |
| | Hexachlorobenzene | µg/L | <0.46U | - | - | <0.47U | - | - | <0.51U |
| | Hexachlorobutadiene | µg/L | <0.62U | - | - | <0.63U | - | - | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | <0.54U | - | - | <0.54U | - | - | <0.59U |
| | Hexachloroethane | µg/L | <0.54U | - | - | <0.54U | - | - | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.43U | - | - | <0.43U | - | - | <0.47U |
| | Isophorone | µg/L | <0.39U | - | - | <0.4U | - | - | <0.43U |
| | Naphthalene | µg/L | <0.69U | - | - | <0.7U | - | - | <0.76U |
| | Nitrobenzene | µg/L | <0.26U | - | - | <0.27U | - | - | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | <0.49U | - | - | <0.5U | - | - | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | <0.46U | - | - | <0.47U | - | - | <0.51U |
| | Pentachlorophenol | µg/L | <2U | - | - | <2U | - | - | <2.2U |
| | Phenanthrene | µg/L | <0.4U | - | - | <0.41U | - | - | <0.44U |
| | Phenol | µg/L | <0.36U | - | - | <0.36U | - | - | <0.39U |
| | Pyrene | µg/L | <0.31U | - | - | <0.31U | - | - | <0.34U |
| | Total SVOCS | µg/L | **50** | - | - | **24** | - | - | **120** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | **2.5J** | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **1.9J** | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29UJ | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **1.8J** | <0.79U | <0.79U | <0.79U | <0.79UJ | <0.79U | **1.7J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21UJ | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **1.1J** | <0.78UJ | <0.78U | <0.78U | <0.78U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | **5.5** | <0.84U | <0.84U | **0.96J** | <0.84U | <0.84U | **4.2J** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | **3.9J** | <3U | <3U |
| | Benzene | µg/L | **1.9J** | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | **0.9J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26UJ | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **16** | **2.1J** | **1.8J** | **2.5J** | **1.3J** | **0.82J** | **13** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **25** | <0.81UJ | <0.81U | <0.81U | <0.81U | <0.81U | **1.3** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | **0.91J** | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **26** | <0.46UJ | <0.46U | <0.46U | <0.46U | <0.46U | **1.2J** |
| | Tetrachloroethene | µg/L | **1.2J** | <0.36UJ | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | **1.5J** | <0.51UJ | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | **1.9J** | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | **0.94J** | <0.66UJ | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **89** | **2.1** | **1.8** | **3.5** | **5.2** | **0.82** | **23** |

**MW-10**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 7/31/2017 | 10/17/2017 | 5/7/2018 | 7/19/2018 | 10/15/2018 | 4/22/2019 | 7/22/2019 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **61.5J+** | **50.5** | **45.3J+** | **61.1** | **48.3** | **84.9** | **73.4** |
| | Ammonia | mg/L | **1.7** | **1.4** | **2.2** | **1.7** | **1.4** | **4.6** | **3.1** |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.02U | **0.081** | <0.02U | <0.02U | <0.02U | **0.041U** |
| | Sulfate | mg/L | **49.5** | **33.5** | **66.1** | **56.6** | **31.8** | **96.9J-** | **57.9** |
| | Total Organic Carbon | mg/L | **1.8** | **1.0** | **2.6** | **1.8** | **1.7** | **4.8J** | **3.4** |
| Metals | Arsenic | µg/L | **28** | **20** | **66** | **56** | **35** | **48** | **42** |
| | Iron | µg/L | **18,500** | **11,300** | **27,700** | **23,100** | **14,800** | **38,700** | **27,900** |
| | Manganese | µg/L | **14,100** | **10,900** | **19,200** | **16,100** | **12,400** | **21,900** | **15,800** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | - | <0.44U | - | - | **0.86J** | - |
| | 1,2-Dichlorobenzene | µg/L | - | - | **0.63J** | - | - | **1.8J** | - |
| | 1,3-Dichlorobenzene | µg/L | - | - | <0.48U | - | - | <0.48U | - |
| | 1,4-Dichlorobenzene | µg/L | - | - | **0.98J** | - | - | **3.1J** | - |
| | 1,4-Dioxane | µg/L | - | - | **220** | - | - | **590** | - |
| | 2,4,5-Trichlorophenol | µg/L | - | - | <0.48U | - | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | - | - | <0.61U | - | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | - | - | <0.51U | - | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | - | - | <0.5U | - | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | - | - | <2.2U | - | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | - | - | <0.45U | - | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | - | - | <0.4U | - | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | - | - | <0.46U | - | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | - | - | <0.53U | - | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | - | - | <0.6U | - | - | <0.6U | - |
| | 2-Methylphenol | µg/L | - | - | <0.4U | - | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | - | - | <0.42U | - | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | - | - | <0.48U | - | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | - | - | <0.4U | - | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | - | - | <0.48U | - | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | - | <2.2U | - | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | - | <0.45U | - | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | - | <0.45U | - | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | - | - | <0.59U | - | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | - | <0.35U | - | - | <0.35U | - |
| | 4-Methylphenol | µg/L | - | - | <0.36U | - | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | - | - | <0.25U | - | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | - | - | <1.5U | - | - | <1.5U | - |
| | Acenaphthene | µg/L | - | - | <0.41U | - | - | <0.41U | - |
| | Acenaphthylene | µg/L | - | - | <0.38U | - | - | <0.38U | - |
| | Anthracene | µg/L | - | - | <0.28U | - | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | - | - | <0.36U | - | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | - | - | <0.47U | - | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | - | - | <0.34U | - | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | - | - | <0.35U | - | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | - | - | <0.73U | - | - | <0.73U | - |
| | Benzoic acid | µg/L | - | - | <100U | - | - | <100U | - |
| | Benzyl alcohol | µg/L | - | - | <0.44U | - | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | - | <0.35U | - | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | - | - | <0.4U | - | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | - | <0.52U | - | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | - | <1.8U | - | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | - | - | <0.43U | - | - | <0.46U | - |
| | Carbazole | µg/L | - | - | <0.3U | - | - | <0.3U | - |
| | Chrysene | µg/L | - | - | <0.33U | - | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | - | - | <0.42U | - | - | <0.42U | - |
| | Dibenzofuran | µg/L | - | - | <0.51U | - | - | <0.51U | - |
| | Diethyl phthalate | µg/L | - | - | <0.22U | - | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | - | - | <0.36U | - | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | - | - | <0.31U | - | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | - | - | <0.47U | - | - | <0.47U | - |

**MW-10**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 7/31/2017 | 10/17/2017 | 5/7/2018 | 7/19/2018 | 10/15/2018 | 4/22/2019 | 7/22/2019 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Fluoranthene | µg/L | - | - | <0.4U | - | - | <0.4U | - |
| | Fluorene | µg/L | - | - | <0.36U | - | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | - | - | <0.51U | - | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | - | - | <0.68U | - | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | - | - | <0.59U | - | - | <0.59U | - |
| | Hexachloroethane | µg/L | - | - | <0.59U | - | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | - | <0.47U | - | - | <0.47U | - |
| | Isophorone | µg/L | - | - | <0.43U | - | - | <0.43U | - |
| | Naphthalene | µg/L | - | - | <0.76U | - | - | <0.76U | - |
| | Nitrobenzene | µg/L | - | - | <0.29U | - | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | - | - | <0.54U | - | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | - | - | <0.51U | - | - | <0.51U | - |
| | Pentachlorophenol | µg/L | - | - | <2.2U | - | - | <2.2U | - |
| | Phenanthrene | µg/L | - | - | <0.44U | - | - | <0.44U | - |
| | Phenol | µg/L | - | - | <0.39U | - | - | <0.39U | - |
| | Pyrene | µg/L | - | - | <0.34U | - | - | <0.34U | - |
| | Total SVOCS | µg/L | - | - | **230** | - | - | **600** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | <0.79U | **0.87J** | <0.79U | <0.79U | **2.1J** | **1.1J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.78U | <0.78U | <0.78U | <0.78U | <0.78U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <0.84U | <0.84U | **1.4J** | **1J** | **1.1J** | **3.8J** | **2.2J** |
| | 2-Butanone | µg/L | <5U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | **6J** | <3U | **5.2J** | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | **2.5J** | **1.2J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **1.3J** | **0.86J** | **4.8J** | **2.9J** | **2.1J** | **27** | **12** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | **6.5** | **1.9** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | **2.8J** | **1.1J** |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | **3.1J** | **1.7J** |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **7.3** | **0.86** | **13** | **3.9** | **3.2** | **48** | **3.9** |

**MW-10**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/7/2019 | 4/29/2020 | 7/7/2020 | 10/19/2020 | 4/26/2021 | 7/19/2021 | 10/25/2021 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **66** | **79.5** | **71.4** | **41.4** | **79.6** | **52.6** | **96.1** |
| | Ammonia | mg/L | **2.5** | **2.4** | **2.4** | **1.5** | **1.7** | **1.5** | **1.8** |
| | Nitrate+Nitrite | mg/L | **0.032U** | **0.026J** | **0.027U** | **0.037J** | **0.024J** | **1.4** | **0.068J** |
| | Sulfate | mg/L | **32.8** | **38.1** | **38.9** | **19.9** | **34.6** | **21.3** | **34.3** |
| | Total Organic Carbon | mg/L | **2.0** | **3.0** | **2.3** | **0.93J** | **3.9** | **2.5** | **4.5** |
| Metals | Arsenic | µg/L | **44** | **34** | **34** | **28** | **41** | **28** | **40** |
| | Iron | µg/L | **19,600** | **19,000** | **22,000** | **15,400** | **24,300** | **16,900** | **24,000** |
| | Manganese | µg/L | **12,500** | **12,000** | **14,100** | **11,400** | **17,900** | **13,200** | **17,600** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | <8.8U | - | - | <8.8U | - | - |
| | 1,2-Dichlorobenzene | µg/L | - | <8.0U | - | - | <8UJ | - | - |
| | 1,3-Dichlorobenzene | µg/L | - | <0.78U | - | - | <9.6U | - | - |
| | 1,4-Dichlorobenzene | µg/L | - | <9.2 | - | - | <9.2UJ | - | - |
| | 1,4-Dioxane | µg/L | - | **230** | - | - | **200** | - | - |
| | 2,4,5-Trichlorophenol | µg/L | - | <9.6U | - | - | <9.6U | - | - |
| | 2,4,6-Trichlorophenol | µg/L | - | <12U | - | - | <12U | - | - |
| | 2,4-Dichlorophenol | µg/L | - | <10U | - | - | <10U | - | - |
| | 2,4-Dimethylphenol | µg/L | - | <10U | - | - | <10U | - | - |
| | 2,4-Dinitrophenol | µg/L | - | <44U | - | - | <44U | - | - |
| | 2,4-Dinitrotoluene | µg/L | - | <8.9U | - | - | <8.9U | - | - |
| | 2,6-Dinitrotoluene | µg/L | - | <8.0U | - | - | <8U | - | - |
| | 2-Chloronaphthalene | µg/L | - | <9.2U | - | - | <9.2U | - | - |
| | 2-Chlorophenol | µg/L | - | <11U | - | - | <11U | - | - |
| | 2-Methylnaphthalene | µg/L | - | <12U | - | - | <12U | - | - |
| | 2-Methylphenol | µg/L | - | <8.0U | - | - | <8U | - | - |
| | 2-Nitroaniline | µg/L | - | <8.4U | - | - | <8.4U | - | - |
| | 2-Nitrophenol | µg/L | - | <9.6U | - | - | <9.6U | - | - |
| | 3,3-Dichlorobenzidine | µg/L | - | <8.0U | - | - | <8U | - | - |
| | 3-Nitroaniline | µg/L | - | <9.6U | - | - | <9.6U | - | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | <44U | - | - | <44U | - | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | <9.0U | - | - | <9U | - | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | <9.0U | - | - | <9U | - | - |
| | 4-Chloroaniline | µg/L | - | <12U | - | - | <12U | - | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | <7.0U | - | - | <7U | - | - |
| | 4-Methylphenol | µg/L | - | <7.2U | - | - | <7.2U | - | - |
| | 4-Nitroaniline | µg/L | - | <5U | - | - | <5U | - | - |
| | 4-Nitrophenol | µg/L | - | <30U | - | - | <30U | - | - |
| | Acenaphthene | µg/L | - | <8.2U | - | - | <8.2U | - | - |
| | Acenaphthylene | µg/L | - | <7.6U | - | - | <7.6U | - | - |
| | Anthracene | µg/L | - | <5.6U | - | - | <5.6U | - | - |
| | Benz(a)anthracene | µg/L | - | <7.2U | - | - | <7.2U | - | - |
| | Benzo(a)pyrene | µg/L | - | <9.4U | - | - | <9.4U | - | - |
| | Benzo(b)fluoranthene | µg/L | - | <6.8U | - | - | <6.8U | - | - |
| | Benzo(g,h,i)perylene | µg/L | - | <7.0U | - | - | <7U | - | - |
| | Benzo(k)fluoranthene | µg/L | - | <15U | - | - | <15U | - | - |
| | Benzoic acid | µg/L | - | <2000U | - | - | <2000U | - | - |
| | Benzyl alcohol | µg/L | - | <8.8U | - | - | <8.8U | - | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | <7.0U | - | - | <7U | - | - |
| | Bis(2-chloroethyl)ether | µg/L | - | <8.0U | - | - | <8U | - | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | <10U | - | - | <10U | - | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | <36U | - | - | <36U | - | - |
| | Butyl benzyl phthalate | µg/L | - | <8.4U | - | - | <8.4U | - | - |
| | Carbazole | µg/L | - | <6U | - | - | <6U | - | - |
| | Chrysene | µg/L | - | <6.6U | - | - | <6.6U | - | - |
| | Dibenz(a,h)anthracene | µg/L | - | <8.4U | - | - | <8.4U | - | - |
| | Dibenzofuran | µg/L | - | <10U | - | - | <10U | - | - |
| | Diethyl phthalate | µg/L | - | <4.4U | - | - | <4.4U | - | - |
| | Dimethyl phthalate | µg/L | - | <7.2U | - | - | <7.2U | - | - |
| | Di-n-butyl phthalate | µg/L | - | <6.2U | - | - | <6.2U | - | - |
| | Di-n-octyl phthalate | µg/L | - | <9.4U | - | - | <9.4U | - | - |

**MW-10**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/7/2019 | 4/29/2020 | 7/7/2020 | 10/19/2020 | 4/26/2021 | 7/19/2021 | 10/25/2021 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Fluoranthene | µg/L | - | <8.0U | - | - | <8U | - | - |
| | Fluorene | µg/L | - | <7.2U | - | - | <7.2U | - | - |
| | Hexachlorobenzene | µg/L | - | <10U | - | - | <10U | - | - |
| | Hexachlorobutadiene | µg/L | - | <14U | - | - | <14U | - | - |
| | Hexachlorocyclopentadiene | µg/L | - | <12U | - | - | <12U | - | - |
| | Hexachloroethane | µg/L | - | <12U | - | - | <12U | - | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | <9.4U | - | - | <9.4U | - | - |
| | Isophorone | µg/L | - | <8.6U | - | - | <8.6U | - | - |
| | Naphthalene | µg/L | - | <15U | - | - | <15U | - | - |
| | Nitrobenzene | µg/L | - | <5.8U | - | - | <5.8U | - | - |
| | N-nitrosodi-n-propylamine | µg/L | - | <11U | - | - | <11U | - | - |
| | N-Nitrosodiphenylamine | µg/L | - | <10U | - | - | <10U | - | - |
| | Pentachlorophenol | µg/L | - | <44U | - | - | <44U | - | - |
| | Phenanthrene | µg/L | - | <8.8U | - | - | <8.8U | - | - |
| | Phenol | µg/L | - | <7.8U | - | - | <7.8U | - | - |
| | Pyrene | µg/L | - | <6.8U | - | - | <6.8U | - | - |
| | Total SVOCS | µg/L | - | **230** | - | - | **200** | - | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | **1.2J** | <0.79U | <0.79U | **1.5J** | <0.79U | **1J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.78U | <0.78U | <0.78U | <0.84U | <0.78U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | **1.5J** | **1.6J** | **1.4J** | <0.78U | **2.6J** | **0.91J** | **1.7J** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3.0.0U | <3.0.0U | <3.0.0U | <3U | <10U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | **1.4J** | <0.41U | **0.79J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **6** | **14** | **6.8** | **1.6J** | **26** | **3.3J** | **18** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **0.92J** | <0.81U | <0.81U | <0.81U | **3.7** | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | **0.85J** | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.90U | <0.90U | <0.90U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.90U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **8.5** | **17** | **8.2** | **1.6** | **37** | **4.2** | **22** |

**MW-10**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/19/2022 | 7/26/2022 | 10/25/2022 | 4/24/2023 | 8/1/2023 | 10/30/2023 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **82.9** | **98.6J-** | **67** | **113** | **89.8** | **108** |
| | Ammonia | mg/L | **1.7J** | **1.4J-** | **1.5** | **2** | **1.8** | **1.5** |
| | Nitrate+Nitrite | mg/L | <0.02UJ | **0.31J-** | <0.02U | <2U | **0.026J** | <0.05U |
| | Sulfate | mg/L | **30.7** | **21.7J-** | **11.4J** | **18.6** | **13.3** | **12.1** |
| | Total Organic Carbon | mg/L | **3.8** | **4.6J-** | **2.4** | **5.3** | **3J+** | **3.1** |
| Metals | Arsenic | µg/L | **39** | **51** | **48** | **58** | **52** | **50** |
| | Iron | µg/L | **23,200** | **25,700** | **20,800** | **28,900** | **25,500** | **17,500** |
| | Manganese | µg/L | **14,400** | **16,500** | **16,200** | **20,400** | **20,700** | **15,100** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <8.8U | - | - | <8.8U | - | - |
| | 1,2-Dichlorobenzene | µg/L | <8U | - | - | <0.79U | - | - |
| | 1,3-Dichlorobenzene | µg/L | <9.6U | - | - | <0.78U | - | - |
| | 1,4-Dichlorobenzene | µg/L | <9.2U | - | - | <9.2U | - | - |
| | 1,4-Dioxane | µg/L | **59J** | - | - | **180J** | - | - |
| | 2,4,5-Trichlorophenol | µg/L | <9.6U | - | - | <9.6U | - | - |
| | 2,4,6-Trichlorophenol | µg/L | <12U | - | - | <12U | - | - |
| | 2,4-Dichlorophenol | µg/L | <10U | - | - | <10U | - | - |
| | 2,4-Dimethylphenol | µg/L | <10U | - | - | <10U | - | - |
| | 2,4-Dinitrophenol | µg/L | <44U | - | - | <44U | - | - |
| | 2,4-Dinitrotoluene | µg/L | <8.9U | - | - | <8.9U | - | - |
| | 2,6-Dinitrotoluene | µg/L | <8U | - | - | <8U | - | - |
| | 2-Chloronaphthalene | µg/L | <9.2U | - | - | <9.2U | - | - |
| | 2-Chlorophenol | µg/L | <11U | - | - | <11U | - | - |
| | 2-Methylnaphthalene | µg/L | <12U | - | - | <12U | - | - |
| | 2-Methylphenol | µg/L | <8U | - | - | <8U | - | - |
| | 2-Nitroaniline | µg/L | <8.4U | - | - | <8.4U | - | - |
| | 2-Nitrophenol | µg/L | <9.6U | - | - | <9.6U | - | - |
| | 3,3-Dichlorobenzidine | µg/L | <8U | - | - | <8U | - | - |
| | 3-Nitroaniline | µg/L | <9.6U | - | - | <9.6U | - | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <44U | - | - | <44U | - | - |
| | 4-Bromophenyl phenyl ether | µg/L | <9U | - | - | <9U | - | - |
| | 4-Chloro-3-Methylphenol | µg/L | <9U | - | - | <9U | - | - |
| | 4-Chloroaniline | µg/L | <12U | - | - | <12U | - | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <7U | - | - | <7U | - | - |
| | 4-Methylphenol | µg/L | <7.2U | - | - | <7.2U | - | - |
| | 4-Nitroaniline | µg/L | <5U | - | - | <5U | - | - |
| | 4-Nitrophenol | µg/L | <30U | - | - | <30U | - | - |
| | Acenaphthene | µg/L | <8.2U | - | - | <8.2U | - | - |
| | Acenaphthylene | µg/L | <7.6U | - | - | <7.6U | - | - |
| | Anthracene | µg/L | <5.6U | - | - | <5.6U | - | - |
| | Benz(a)anthracene | µg/L | <7.2U | - | - | <7.2U | - | - |
| | Benzo(a)pyrene | µg/L | <9.4U | - | - | <9.4U | - | - |
| | Benzo(b)fluoranthene | µg/L | <6.8U | - | - | <6.8U | - | - |
| | Benzo(g,h,i)perylene | µg/L | <7U | - | - | <7U | - | - |
| | Benzo(k)fluoranthene | µg/L | <15U | - | - | <15U | - | - |
| | Benzoic acid | µg/L | <2,000U | - | - | <2000U | - | - |
| | Benzyl alcohol | µg/L | <8.8U | - | - | <8.8U | - | - |
| | Bis(2-chloroethoxy) methane | µg/L | <7U | - | - | <7U | - | - |
| | Bis(2-chloroethyl)ether | µg/L | <8U | - | - | <8U | - | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <10U | - | - | <10U | - | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <36U | - | - | <36U | - | - |
| | Butyl benzyl phthalate | µg/L | <8.4U | - | - | <8.4U | - | - |
| | Carbazole | µg/L | <6U | - | - | <6U | - | - |
| | Chrysene | µg/L | <6.6U | - | - | <6.6U | - | - |
| | Dibenz(a,h)anthracene | µg/L | <8.4U | - | - | <8.4U | - | - |
| | Dibenzofuran | µg/L | <10U | - | - | <10U | - | - |
| | Diethyl phthalate | µg/L | <4.4U | - | - | <4.4U | - | - |
| | Dimethyl phthalate | µg/L | <7.2U | - | - | <7.2U | - | - |
| | Di-n-butyl phthalate | µg/L | <6.2U | - | - | <6.2U | - | - |
| | Di-n-octyl phthalate | µg/L | <9.4U | - | - | <9.4U | - | - |

**MW-10**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/19/2022 | 7/26/2022 | 10/25/2022 | 4/24/2023 | 8/1/2023 | 10/30/2023 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluoranthene | µg/L | <8U | - | - | <8U | - | - |
| | Fluorene | µg/L | <7.2U | - | - | <7.2U | - | - |
| | Hexachlorobenzene | µg/L | <10U | - | - | <10U | - | - |
| | Hexachlorobutadiene | µg/L | <14U | - | - | <14U | - | - |
| | Hexachlorocyclopentadiene | µg/L | <12U | - | - | <12U | - | - |
| | Hexachloroethane | µg/L | <12U | - | - | <12U | - | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <9.4U | - | - | <9.4U | - | - |
| | Isophorone | µg/L | <8.6U | - | - | <8.6U | - | - |
| | Naphthalene | µg/L | <15U | - | - | <15U | - | - |
| | Nitrobenzene | µg/L | <5.8U | - | - | <5.8U | - | - |
| | N-nitrosodi-n-propylamine | µg/L | <11U | - | - | <11U | - | - |
| | N-Nitrosodiphenylamine | µg/L | <10U | - | - | <10U | - | - |
| | Pentachlorophenol | µg/L | <44UJ | - | - | <44U | - | - |
| | Phenanthrene | µg/L | <8.8U | - | - | <8.8U | - | - |
| | Phenol | µg/L | <7.8U | - | - | <7.8U | - | - |
| | Pyrene | µg/L | <6.8U | - | - | <6.8U | - | - |
| | Total SVOCS | µg/L | **59** | - | - | **180** | - | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82UJ | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21UJ | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23UJ | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **4J** | <0.38UJ | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29UJ | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **1.3J** | <0.79UJ | <0.79U | <0.79U | <0.79U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21UJ | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72UJ | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **1.3J** | <0.78UJ | <0.78U | <0.78U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | **5.9** | **1.6J** | **0.86J** | **0.98J** | **1.3J** | **1.3J** |
| | 2-Butanone | µg/L | <1.3U | <1.3UJ | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2UJ | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1UJ | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3UJ | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | **3.3J** | <0.41UJ | <0.41U | **0.51J** | <0.41U | **0.68J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39UJ | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26UJ | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69UJ | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19UJ | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27UJ | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **9.8** | **8.2J** | **4.2J** | **9.9J** | **7.4** | **9.5** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32UJ | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32UJ | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34UJ | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35UJ | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **62** | <0.81UJ | <0.81U | <0.81U | <0.81U | **1.6** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36UJ | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44UJ | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74UJ | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73UJ | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **12** | <0.46UJ | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36UJ | <0.36UJ | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | **0.93J** | <0.51UJ | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37UJ | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | **12** | <0.9UJ | <0.9U | <0.9U | <0.9U | **1.1J** |
| | Total Xylenes | µg/L | <0.66U | <0.66UJ | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **120** | **9.8** | **5.1** | **12** | **8.7** | **15** |

**MW-10**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2024 | 7/29/2024 | 10/28/2024 | 4/21/2025 | 7/30/2025 | 10/22/2025 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **124J-** | **146** | **101** | **81.1** | **114** | **48.3** |
| | Ammonia | mg/L | **3.9** | **1.8** | **0.83** | **0.87** | **1** | **1** |
| | Nitrate+Nitrite | mg/L | **0.045J** | **0.03J** | <0.02U | **0.034J** | **0.03J** | <0.02U |
| | Sulfate | mg/L | **20.3** | **14.2** | **19.7** | **15.3** | **12** | **13.2** |
| | Total Organic Carbon | mg/L | **6.9** | **2.9** | **2.4** | **4** | **4.2** | **0.99J** |
| Metals | Arsenic | µg/L | **84** | **65** | **46** | **49** | **69** | **36** |
| | Iron | µg/L | **41,900** | **24,400** | **18,000** | **19,400** | **29,200** | **18,100** |
| | Manganese | µg/L | **19,900** | **19,300** | **14,900** | **14,200** | **21,000** | **15,500** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **1.2J** | - | - | <0.44U | - | - |
| | 1,2-Dichlorobenzene | µg/L | **1.6J** | - | - | <0.4U | - | - |
| | 1,3-Dichlorobenzene | µg/L | **1J** | - | - | <0.48U | - | - |
| | 1,4-Dichlorobenzene | µg/L | **5.9** | - | - | **0.82J** | - | - |
| | 1,4-Dioxane | µg/L | **310** | - | - | **60** | - | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | - | <0.48U | - | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | - | <0.61U | - | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | - | <0.51U | - | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | - | <0.5U | - | - |
| | 2,4-Dinitrophenol | µg/L | <2.2UJ | - | - | <2.2U | - | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | - | <0.45U | - | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | - | <0.4U | - | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | - | <0.46U | - | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | - | <0.53U | - | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | - | <0.6U | - | - |
| | 2-Methylphenol | µg/L | <0.4U | - | - | <0.4U | - | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | - | <0.42U | - | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | - | <0.48U | - | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | - | - | <0.4U | - | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | - | <0.48UJ | - | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | - | <2.2U | - | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | - | <0.45U | - | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | - | <0.45U | - | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | - | <0.59U | - | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | - | <0.35U | - | - |
| | 4-Methylphenol | µg/L | <0.36U | - | - | <0.36U | - | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | - | <0.25U | - | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | - | <1.5U | - | - |
| | Acenaphthene | µg/L | <0.41U | - | - | <0.41U | - | - |
| | Acenaphthylene | µg/L | <0.38U | - | - | <0.38U | - | - |
| | Anthracene | µg/L | <0.28U | - | - | <0.28U | - | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | - | <0.36U | - | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | - | <0.47U | - | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | - | <0.34U | - | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35UJ | - | - | <0.35U | - | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | - | <0.73U | - | - |
| | Benzoic acid | µg/L | <100U | - | - | <100U | - | - |
| | Benzyl alcohol | µg/L | <0.44U | - | - | <0.44U | - | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | - | <0.35U | - | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | - | <0.4U | - | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | - | <0.52UJ | - | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | - | <1.8U | - | - |
| | Butyl benzyl phthalate | µg/L | <0.42U | - | - | <0.42U | - | - |
| | Carbazole | µg/L | <0.3U | - | - | <0.3UJ | - | - |
| | Chrysene | µg/L | <0.33U | - | - | <0.33U | - | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | - | <0.42U | - | - |
| | Dibenzofuran | µg/L | <0.51U | - | - | <0.51U | - | - |
| | Diethyl phthalate | µg/L | <0.22U | - | - | <0.22U | - | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | - | <0.36U | - | - |
| | Di-n-butyl phthalate | µg/L | <0.31U | - | - | <0.31U | - | - |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | - | <0.47U | - | - |

**MW-10**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2024 | 7/29/2024 | 10/28/2024 | 4/21/2025 | 7/30/2025 | 10/22/2025 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluoranthene | µg/L | <0.4U | - | - | <0.4U | - | - |
| | Fluorene | µg/L | <0.36U | - | - | <0.36U | - | - |
| | Hexachlorobenzene | µg/L | <0.51U | - | - | <0.51U | - | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | - | <0.68U | - | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59UJ | - | - | <0.59U | - | - |
| | Hexachloroethane | µg/L | <0.59U | - | - | <0.59U | - | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47UJ | - | - | <0.47U | - | - |
| | Isophorone | µg/L | <0.43U | - | - | <0.43U | - | - |
| | Naphthalene | µg/L | <0.76U | - | - | <0.76U | - | - |
| | Nitrobenzene | µg/L | <0.29U | - | - | <0.29U | - | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | - | <0.54UJ | - | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | - | <0.51U | - | - |
| | Pentachlorophenol | µg/L | <2.2U | - | - | <2.2U | - | - |
| | Phenanthrene | µg/L | <0.44U | - | - | <0.44U | - | - |
| | Phenol | µg/L | <0.39U | - | - | <0.39U | - | - |
| | Pyrene | µg/L | <0.34U | - | - | <0.34U | - | - |
| | Total SVOCS | µg/L | **320** | - | - | **61** | - | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <1.6U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.42U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.46U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **3.7J** | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.58UJ | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **2J** | **0.94J** | <0.79U | <0.79U | **0.87J** | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.42U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <1.4U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <1.6U | <0.78U | <0.78U | <0.78U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | **7.9J** | **2J** | **1.7J** | **1.2J** | **2J** | <0.84U |
| | 2-Butanone | µg/L | <2.6U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <2.5U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <4.2U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <6U | **3.2J** | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | **4.6J** | **1.7J** | **0.88J** | <0.41U | **0.66J** | <0.41U |
| | Dichlorobromomethane | µg/L | <0.78U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.52U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <1.4U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.38U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.54U | <0.27U | <0.27UJ | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **25** | **15** | **12** | **6.2** | **9.3** | **4.1J** |
| | Chlorodibromomethane | µg/L | <0.64U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.64U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.68U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.7U | <0.35U | <0.35U | <0.35U | <0.35UJ | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **16** | <0.81U | <0.81U | **0.88J** | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.72U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.88U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <1.5U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <1.5U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **1.8J** | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.72U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <1U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <1.8UJ | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.74U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | **6.9J** | <0.9U | <0.9U | **1.7J** | <0.9UJ | <0.9U |
| | Total Xylenes | µg/L | <1.3U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **68** | **23** | **15** | **10** | **13** | **4.1** |

# MW-11
## HISTORICAL GROUNDWATER MONITORING DATA

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-11 | MW-11 | MW-11 | MW-11 | MW-11 |
|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 7/24/2008 | 10/22/2008 | 4/27/2009 | 7/17/2009 |
| | Parameters | Units | | | | | |
| General Chemistry | Alkalinity | mg/L | **93** | **88.6** | **123** | <87.8U | **78** |
| | Ammonia | mg/L | **0.064** | **0.14** | **0.088** | <0.036U | <0.009U |
| | Nitrate+Nitrite | mg/L | <0.1U | <0.1U | <0.1U | **0.02J** | <0.02U |
| | Sulfate | mg/L | **17.3** | **14.3** | **15.9** | <11.6U | **10.4** |
| | Total Organic Carbon | mg/L | <1U | **1.1** | **1.1** | <0.4U | **0.6J** |
| Metals | Arsenic | µg/L | **12.1** | **6.4** | <4U | **3.8J** | <5.6U |
| | Iron | µg/L | <150U | **155** | **214J** | **291** | **427** |
| | Manganese | µg/L | **211** | **397J** | **430J** | **449** | **470** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <0.8U | <0.9U | **0.7J** | **1.6J** | <0.11U |
| | 1,2-Dichlorobenzene | µg/L | <1U | <1U | <1U | <1.4U | <1.4U |
| | 1,3-Dichlorobenzene | µg/L | <1U | <1U | <1U | <1.1U | <0.13U |
| | 1,4-Dichlorobenzene | µg/L | <0.5U | <0.4U | **0.4J** | <1.3U | <0.15U |
| | 1,4-Dioxane | µg/L | <10U | <10U | <10U | <0.59U | <0.6U |
| | 2,4,5-Trichlorophenol | µg/L | <10U | <10U | <10U | <2.6U | <0.94U |
| | 2,4,6-Trichlorophenol | µg/L | <3U | <3U | <3U | <2.9U | <0.95U |
| | 2,4-Dichlorophenol | µg/L | <2U | <2U | <2U | <0.8U | <0.75U |
| | 2,4-Dimethylphenol | µg/L | <2U | <2U | <2U | <1.6U | <0.92U |
| | 2,4-Dinitrophenol | µg/L | <43U | <43U | <43U | <2U | <2.1U |
| | 2,4-Dinitrotoluene | µg/L | <5U | <5U | <5U | <1.2U | <0.43U |
| | 2,6-Dinitrotoluene | µg/L | <1U | <1U | <1U | <1.7U | <0.49U |
| | 2-Chloronaphthalene | µg/L | <1U | <1U | <1U | <1.4U | <0.08U |
| | 2-Chlorophenol | µg/L | <3U | <3U | <3U | <1U | <0.48U |
| | 2-Methylnaphthalene | µg/L | **0.3J** | <10U | <10U | <1U | <0.078U |
| | 2-Methylphenol | µg/L | <10U | <10U | <10U | <2.4U | <0.22U |
| | 2-Nitroaniline | µg/L | <10U | <10U | <10U | <1.4U | <0.47U |
| | 2-Nitrophenol | µg/L | <3U | <3U | <3U | <1.4U | <0.57U |
| | 3,3-Dichlorobenzidine | µg/L | <17U | <17U | <17U | <1.5U | <0.36U |
| | 3-Nitroaniline | µg/L | <10U | <10U | <10U | <1.8U | <1.5U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <24U | <24U | <24U | <1.8U | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <1U | <1U | <1U | <1.7U | <0.86U |
| | 4-Chloro-3-Methylphenol | µg/L | <3U | <3U | <3U | <1U | <0.57U |
| | 4-Chloroaniline | µg/L | <2U | <2U | <2U | <0.94U | <0.31U |
| | 4-Chlorophenyl phenyl ether | µg/L | <4U | <4U | <4U | <1.3U | <0.16U |
| | 4-Methylphenol | µg/L | <10U | <10U | <10U | <0.55U | <0.55U |
| | 4-Nitroaniline | µg/L | <10U | <10U | <10U | <2.7U | <0.43U |
| | 4-Nitrophenol | µg/L | <3U | <3U | <3U | <2.8U | <1.4U |
| | Acenaphthene | µg/L | <1U | <1U | <1U | <1.3U | <0.11U |
| | Acenaphthylene | µg/L | <3U | <3U | <3U | <1.1U | <0.045U |
| | Anthracene | µg/L | <1U | <1U | <1U | <1.4U | <0.053U |
| | Benz(a)anthracene | µg/L | <7U | <7U | <7U | <1.5U | <0.061U |
| | Benzo(a)pyrene | µg/L | <2U | <2U | <2U | <1.5U | <0.087U |
| | Benzo(b)fluoranthene | µg/L | <10U | <10U | <10U | <2.8U | <0.06U |
| | Benzo(g,h,i)perylene | µg/L | <4U | <4U | <4U | <2.8U | <0.074U |
| | Benzo(k)fluoranthene | µg/L | <2U | <0.4U | <2U | <1.3U | <0.063U |
| | Benzoic acid | µg/L | <95U | <100U | <100U | <47U | <95U |
| | Benzyl alcohol | µg/L | <7U | <7U | <7U | <4.7U | <0.28U |
| | Bis(2-chloroethoxy) methane | µg/L | <5U | <5U | <5U | <1.1U | <0.36U |
| | Bis(2-chloroethyl)ether | µg/L | <5U | <5U | <5U | <1.6U | <0.17U |
| | Bis(2-chloroisopropyl) ether | µg/L | <5U | <5U | <5U | <0.94U | <3.8U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <10U | <10U | <10U | <2.1U | <4.5U |
| | Butyl benzyl phthalate | µg/L | <10U | <10U | <10U | <1.5U | <1.7U |
| | Carbazole | µg/L | <10U | <10U | <10U | <0.084U | <0.085U |
| | Chrysene | µg/L | <2U | <0.7U | <2U | <1.6U | <0.26U |
| | Dibenz(a,h)anthracene | µg/L | <10U | <10U | <10U | <1.7U | <0.19U |
| | Dibenzofuran | µg/L | <10U | <10U | <10U | <1.5U | <1.5U |
| | Diethyl phthalate | µg/L | <10U | <10U | <10U | <1.6U | <0.1U |
| | Dimethyl phthalate | µg/L | <10U | <10U | <10U | <1.1U | <0.29U |

**MW-11**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-11 | MW-11 | MW-11 | MW-11 | MW-11 |
|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 7/24/2008 | 10/22/2008 | 4/27/2009 | 7/17/2009 |
| | Parameters | Units | | | | | |
| Semivolatile Organics | Di-n-butyl phthalate | µg/L | <10U | <10U | <10U | <1.4U | <0.28U |
| | Di-n-octyl phthalate | µg/L | <10U | <10U | <10U | <1.7U | <0.23U |
| | Fluoranthene | µg/L | <2U | <2U | <2U | <1.9U | <0.093U |
| | Fluorene | µg/L | <1U | <1U | <1U | <1.7U | <0.07U |
| | Hexachlorobenzene | µg/L | <1U | <1U | <1U | <2.1U | <0.42U |
| | Hexachlorobutadiene | µg/L | <2U | <3U | <3U | <1.1U | <2.5U |
| | Hexachlorocyclopentadiene | µg/L | <10U | <10U | <10U | <1.8U | <2.4U |
| | Hexachloroethane | µg/L | <3U | <3U | <5U | <0.8U | <2.7U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4U | <4U | <4U | <3U | <0.15U |
| | Isophorone | µg/L | <2U | <2U | <2U | <1.1U | <0.3U |
| | Naphthalene | µg/L | <0.5U | <0.2U | <0.4U | <1.2U | <0.11U |
| | Nitrobenzene | µg/L | <2U | <2U | <2U | <1.9U | <0.51U |
| | N-nitrosodi-n-propylamine | µg/L | <10U | <10U | <10U | <0.94U | <0.43U |
| | N-Nitrosodiphenylamine | µg/L | <1U | <1U | <1U | <1.2U | <0.25U |
| | Pentachlorophenol | µg/L | <5U | <5U | <5U | <3.5U | <4.9U |
| | Phenanthrene | µg/L | <5U | <5U | <5U | <1.3U | <0.11U |
| | Phenol | µg/L | <2U | <2U | <2U | <2.4U | <0.42U |
| | Pyrene | µg/L | <1U | <1U | <1U | <1.8U | <0.065U |
| | Total SVOCS | µg/L | **0.3** | ND | **1.1** | **1.6** | ND |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | <5U | <5U | <0.26U | <0.26U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <5U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <5U | <5U | <5U | <0.75U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <5U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <1U | <1U | <1U | <0.2U | <0.2U |
| | 1,2-Dichloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <5U | <0.14U | <0.32U |
| | 1,3-Dichlorobenzene | µg/L | <1U | <1U | <1U | <0.16U | <0.13U |
| | 1,4-Dichlorobenzene | µg/L | **0.6J** | **0.82J** | <5U | <0.16U | <0.39U |
| | 2-Butanone | µg/L | <5U | <5U | <5U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <5U | <5U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <5U | <0.91U | <0.91U |
| | Acetone | µg/L | <10U | **2.6J** | <10U | <1.3U | <1.3U |
| | Benzene | µg/L | <5U | <5U | <5U | <0.16U | <0.41U |
| | Dichlorobromomethane | µg/L | <5U | <5U | <5U | <0.39U | <0.39U |
| | Bromoform | µg/L | <5U | <5U | <5U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <5U | <5U | <5U | <0.28U | <0.28U |
| | Carbon Disulfide | µg/L | <5U | <5U | <5U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <5U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <5U | **0.52J** | <5U | <0.32U | <0.32U |
| | Chlorodibromomethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U |
| | Chloroform | µg/L | <5U | <5U | <5U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <5U | <5U | <5U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.85U | **2.8** | **0.73J** | **0.56J** | **0.5J** |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <5U | <5U | <5U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <5U | <5U | <5U | <0.18U | <0.18U |
| | Styrene | µg/L | <5U | <5U | <5U | <0.18U | <0.18U |
| | Trichloroethene | µg/L | <5U | <5U | <5U | <0.18U | <0.46U |
| | Tetrachloroethene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U |
| | Toluene | µg/L | **3J** | **6.4J** | **2.1J** | **0.83J** | **1.1J** |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.13U | <0.42U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <5U | <5U | <5U | <0.24U | <0.24U |
| | Total Xylenes | µg/L | <5U | **0.96J** | <5U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **3.6** | **15** | **2.9** | **1.4** | **1.6** |

**MW-11**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-11 | MW-11 | MW-11 | MW-11 | MW-11 | MW-11 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/29/2009 | 5/6/2010 | 7/22/2010 | 10/28/2010 | 4/17/2013 | 10/21/2013 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **83.3** | **79** | **82.5** | **83.3** | **82.6** | **94.3J** |
| | Ammonia | mg/L | **0.038J** | <0.065U | **0.238J** | <0.05U | **0.012J** | <0.009UJ |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.1U | **0.025J** | <0.1U | <0.02U | <0.05U |
| | Sulfate | mg/L | <5U | **10.7** | **10** | **12.4** | **7.2** | **14J** |
| | Total Organic Carbon | mg/L | **0.8J** | <1U | <1U | **0.6J** | **0.45J** | <0.43U |
| Metals | Arsenic | µg/L | **5.9J** | <10U | <10U | <10U | <5.6U | <5.6U |
| | Iron | µg/L | **341** | **311** | **291** | **-** | **550** | **780** |
| | Manganese | µg/L | **532** | **660** | **692** | **702J** | **1,000** | **950** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <0.43U | <1.8U | <1.9U | <1.8U | <0.42U | - |
| | 1,2-Dichlorobenzene | µg/L | <0.39U | <1.8U | <1.9U | <1.8U | <0.38U | - |
| | 1,3-Dichlorobenzene | µg/L | <0.47U | <1.8U | <1.9U | <1.8U | <0.46U | - |
| | 1,4-Dichlorobenzene | µg/L | <0.45U | <4.3U | <4.3U | <4.2U | <0.44U | - |
| | 1,4-Dioxane | µg/L | <1.1U | <9.7U | <9.9U | <9.5U | <1U | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.47U | <9.7U | <9.9U | <9.5U | <0.46U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.59U | <3U | <3.1U | <3U | <0.58U | - |
| | 2,4-Dichlorophenol | µg/L | <0.5U | <2.7U | <2.8U | <2.7U | <0.48U | - |
| | 2,4-Dimethylphenol | µg/L | <0.49U | <2.7U | <2.8U | <2.7U | <0.47U | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | <42U | <42U | <41U | <2.1U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.43U | <5.6U | <5.7U | <5.5U | <0.42U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.39U | <1.8U | <1.9U | <1.8U | <0.38U | - |
| | 2-Chloronaphthalene | µg/L | <0.45U | <1.8U | <1.9U | <1.8U | <0.44U | - |
| | 2-Chlorophenol | µg/L | <0.51U | <3.2U | <3.3U | <3.1U | <0.5U | - |
| | 2-Methylnaphthalene | µg/L | <0.58U | <9.7U | <9.9U | <9.5U | <0.57U | - |
| | 2-Methylphenol | µg/L | <0.39U | <9.7U | <9.9U | <9.5U | <0.38U | - |
| | 2-Nitroaniline | µg/L | <0.41U | <9.7U | <9.9U | <9.5U | <0.4U | - |
| | 2-Nitrophenol | µg/L | <0.47U | <3.5U | <3.5U | <3.4U | <0.46U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.39U | <17U | <17U | <16U | <0.38U | - |
| | 3-Nitroaniline | µg/L | <0.47U | <9.7U | <9.9U | <9.5U | <0.46U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.1U | <23U | <24U | <23U | <2.1U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.44U | <1.7U | <1.8U | <1.7U | <0.43U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.44U | <2.9U | <3U | <2.9U | <0.43U | - |
| | 4-Chloroaniline | µg/L | <0.57U | <1.9U | <2U | <1.9U | <0.56U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.34U | <4.2U | <4.2U | <4.1U | <0.33U | - |
| | 4-Methylphenol | µg/L | <0.35U | <9.7U | <9.9U | <9.5U | <0.34U | - |
| | 4-Nitroaniline | µg/L | <0.24U | <9.7U | <9.9U | <9.5U | <0.24U | - |
| | 4-Nitrophenol | µg/L | <1.5U | <2.9U | <3U | <2.9U | <1.4U | - |
| | Acenaphthene | µg/L | <0.4U | <1.7U | <1.8U | <1.7U | <0.39U | - |
| | Acenaphthylene | µg/L | <0.37U | <3.4U | <3.4U | <3.3U | <0.36U | - |
| | Anthracene | µg/L | <0.27U | <1.7U | <1.8U | <1.7U | <0.27U | - |
| | Benz(a)anthracene | µg/L | <0.35U | <7.6U | <7.7U | <7.4U | <0.34U | - |
| | Benzo(a)pyrene | µg/L | <0.46U | <2.5U | <2.6U | <2.5U | <0.45U | - |
| | Benzo(b)fluoranthene | µg/L | <0.33U | <9.7U | <9.9U | <9.5U | <0.32U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.34U | <4U | <4U | <3.9U | <0.33U | - |
| | Benzo(k)fluoranthene | µg/L | <0.71U | <2.4U | <2.5U | <2.4U | <0.69U | - |
| | Benzoic acid | µg/L | <97U | <97U | <99U | <95U | <95U | - |
| | Benzyl alcohol | µg/L | <0.43U | <6.8U | <6.9U | <6.7U | <0.42U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.34U | <5.1U | <5.2U | <5U | <0.33U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.39U | <5.5U | <5.6U | <5.4U | <0.38U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.5U | <5.5U | <5.6U | <5.4U | <0.49U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.7U | <9.7U | <9.9U | **4J** | <1.7U | - |
| | Butyl benzyl phthalate | µg/L | <0.41U | <9.7U | <9.9U | <9.5U | <0.4U | - |
| | Carbazole | µg/L | <0.29U | <9.7U | <9.9U | <9.5U | <0.28U | - |
| | Chrysene | µg/L | <0.32U | <2.4U | <2.5U | <2.4U | <0.31U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.41U | <9.7U | <9.9U | <9.5U | <0.4U | - |
| | Dibenzofuran | µg/L | <0.5U | <9.7U | <9.9U | <9.5U | <0.48U | - |
| | Diethyl phthalate | µg/L | <0.21U | <9.7U | <9.9U | <9.5U | <0.21U | - |
| | Dimethyl phthalate | µg/L | <0.35U | <9.7U | <9.9U | <9.5U | <0.34U | - |

**MW-11**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-11 | MW-11 | MW-11 | MW-11 | MW-11 | MW-11 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/29/2009 | 5/6/2010 | 7/22/2010 | 10/28/2010 | 4/17/2013 | 10/21/2013 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Di-n-butyl phthalate | µg/L | <0.3U | <9.7U | <0.39U | <9.5U | <0.29U | - |
| | Di-n-octyl phthalate | µg/L | <0.46U | <9.7U | <9.9U | <9.5U | <0.45U | - |
| | Fluoranthene | µg/L | <0.39U | <2.1U | <2.2U | <2.1U | <0.38U | - |
| | Fluorene | µg/L | <0.35U | <1.8U | <1.9U | <1.8U | <0.34U | - |
| | Hexachlorobenzene | µg/L | <0.5U | <2.1U | <2.2U | <2.1U | <0.48U | - |
| | Hexachlorobutadiene | µg/L | <0.66U | <2.5U | <2.6U | <2.5U | <0.65U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.57U | <9.7U | <9.9U | <9.5U | <0.56U | - |
| | Hexachloroethane | µg/L | <0.57U | <2.7U | <2.8U | <2.7U | <0.56U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.46U | <4.7U | <4.7U | <4.6U | <0.45U | - |
| | Isophorone | µg/L | <0.42U | <2.1U | <2.2U | <2.1U | <0.41U | - |
| | Naphthalene | µg/L | <0.74U | <1.6U | <1.6U | <1.5U | <0.72U | - |
| | Nitrobenzene | µg/L | <0.28U | <1.9U | <2U | <1.9U | <0.28U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.52U | <4.9U | <4.9U | <4.8U | <0.51U | - |
| | N-Nitrosodiphenylamine | µg/L | <0.5U | <1.8U | <1.9U | <1.8U | <0.48U | - |
| | Pentachlorophenol | µg/L | <2.1U | <5U | <5.1U | <4.9U | <2.1U | - |
| | Phenanthrene | µg/L | <0.43U | <4.9U | <4.9U | <4.8U | <0.42U | - |
| | Phenol | µg/L | <0.38U | <2.4U | <2.5U | <2.4U | <0.37U | - |
| | Pyrene | µg/L | <0.33U | <1.8U | <1.9U | <1.8U | <0.32U | - |
| | Total SVOCS | µg/L | ND | ND | ND | **4** | ND | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.26U | **5.1** | <5U | <5U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <5U | <5U | <5U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <5U | <5U | <5U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | **2.6J** | <5U | <5U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <5U | <5U | <5U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.2U | <1.8U | <1.9U | <1.8U | <0.38U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <5U | <5U | <5U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.33U | <5U | <5U | <5U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.36U | <1.8U | <1.9U | <1.8U | <0.46U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <0.39U | **0.88J** | <5U | <5U | <0.84U | <0.84U |
| | 2-Butanone | µg/L | <1.3U | <5U | <5U | <5U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <5U | <5U | <5U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <0.91U | <5U | <5U | <5U | <2.1U | <2.1U |
| | Acetone | µg/L | <1.3U | <10U | <10U | <10U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <5U | <5U | <5U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <5U | <5U | <5U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <5U | <5U | <5U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.28U | <5U | <5U | <5U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <5U | <5U | <5U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <5U | <5U | <5U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.32U | <5U | <5U | <5U | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <5U | <5U | <5U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | **0.63J** | <5U | <5U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | **3.6J** | <5U | <5U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <5U | <5U | <5U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.38U | **73** | <1UJ | <1U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <5U | <5U | <5U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | **4.9J** | <5U | <5U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.18U | **1.3J** | <5U | <5U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.18U | <5U | <5U | <5U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | **7** | <5U | <5U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <5U | <5U | <5U | <0.36U | <0.36U |
| | Toluene | µg/L | **0.93J** | **66** | <5U | <5U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.42U | <1U | <1U | <1U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <5U | <5U | <5U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.24U | **1.6J** | <5U | <5U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | **5.2** | <5U | <5U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **0.93** | **180** | ND | ND | ND | ND |

**MW-11**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-11 | MW-11 | MW-11 | MW-11 | MW-11 | MW-11 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/21/2014 | 4/22/2015 | 5/16/2016 | 4/24/2017 | 5/7/2018 | 4/22/2019 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | - | **87.2** | **81** | **86.9** | **86.5** | **84** |
| | Ammonia | mg/L | - | <0.009U | <0.009UJ | <0.009U | <0.009U | <0.009U |
| | Nitrate+Nitrite | mg/L | - | <0.05U | <0.02U | <0.02U | <0.02U | <0.02UJ |
| | Sulfate | mg/L | - | **11.4** | **15** | **14.6** | **15.2** | **10.6** |
| | Total Organic Carbon | mg/L | - | <0.43U | <1U | <0.43U | <0.44U | <0.43UJ |
| Metals | Arsenic | µg/L | - | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | - | **670** | **710** | **820** | **1,200** | **1,600** |
| | Manganese | µg/L | - | **930** | **1,000** | **1,100** | **1,200** | **1,400** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <0.42U | <0.41U | <0.4U | <0.44U | <0.44U | <0.44U |
| | 1,2-Dichlorobenzene | µg/L | <0.38U | <0.37U | <0.37U | <0.4U | <0.4U | <0.4U |
| | 1,3-Dichlorobenzene | µg/L | <0.46U | <0.44U | <0.44U | <0.48U | <0.48U | <0.48U |
| | 1,4-Dichlorobenzene | µg/L | <0.44U | <0.43U | <0.42U | <0.46U | <0.46U | <0.46U |
| | 1,4-Dioxane | µg/L | <1U | <1U | <1U | <1.1U | <1.1U | <1.1U |
| | 2,4,5-Trichlorophenol | µg/L | <0.46U | <0.44U | <0.44U | <0.48U | <0.48U | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | <0.58U | <0.56U | <0.56U | <0.61U | <0.61U | <0.61U |
| | 2,4-Dichlorophenol | µg/L | <0.48U | <0.47U | <0.47U | <0.51U | <0.51U | <0.51U |
| | 2,4-Dimethylphenol | µg/L | <0.47U | <0.46U | <0.46U | <0.5U | <0.5U | <0.5U |
| | 2,4-Dinitrophenol | µg/L | <2.1U | <2.1U | <2U | <2.2U | <2.2U | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | <0.42U | <0.41U | <0.41U | <0.45U | <0.45U | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | <0.38U | <0.37U | <0.37U | <0.4U | <0.4U | <0.4U |
| | 2-Chloronaphthalene | µg/L | <0.44U | <0.43U | <0.42U | <0.46U | <0.46U | <0.46U |
| | 2-Chlorophenol | µg/L | <0.5U | <0.49U | <0.49U | <0.53U | <0.53U | <0.53U |
| | 2-Methylnaphthalene | µg/L | <0.57U | <0.56U | <0.55U | <0.6U | <0.6U | <0.6U |
| | 2-Methylphenol | µg/L | <0.38U | <0.37U | <0.37U | <0.4U | <0.4U | <0.4U |
| | 2-Nitroaniline | µg/L | <0.4U | <0.39U | <0.39U | <0.42U | <0.42U | <0.42U |
| | 2-Nitrophenol | µg/L | <0.46U | <0.44U | <0.44U | <0.48U | <0.48U | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | <0.38U | <0.37UJ | <0.37U | <0.4U | <0.4U | <0.4U |
| | 3-Nitroaniline | µg/L | <0.46UJ | <0.44U | <0.44U | <0.48U | <0.48U | <0.48U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.1U | <2U | <2U | <2.2U | <2.2U | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <0.43U | <0.42U | <0.41U | <0.45U | <0.45U | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | <0.43U | <0.42U | <0.41U | <0.45U | <0.45U | <0.45U |
| | 4-Chloroaniline | µg/L | <0.56UJ | <0.55U | <0.54U | <0.59U | <0.59U | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.33U | <0.32U | <0.32U | <0.35U | <0.35U | <0.35U |
| | 4-Methylphenol | µg/L | <0.34U | <0.33U | <0.33U | <0.36U | <0.36U | <0.36U |
| | 4-Nitroaniline | µg/L | <0.24U | <0.23U | <0.23U | <0.25U | <0.25U | <0.25U |
| | 4-Nitrophenol | µg/L | <1.4U | <1.4U | <1.4U | <1.5U | <1.5U | <1.5U |
| | Acenaphthene | µg/L | <0.39U | <0.38U | <0.38U | <0.41U | <0.41U | <0.41U |
| | Acenaphthylene | µg/L | <0.36U | <0.35U | <0.35U | <0.38U | <0.38U | <0.38U |
| | Anthracene | µg/L | <0.27U | <0.26U | <0.26U | <0.28U | <0.28U | <0.28U |
| | Benz(a)anthracene | µg/L | <0.34U | <0.33U | <0.33U | <0.36U | <0.36U | <0.36U |
| | Benzo(a)pyrene | µg/L | <0.45U | <0.44U | <0.43U | <0.47U | <0.47U | <0.47U |
| | Benzo(b)fluoranthene | µg/L | <0.32U | <0.31U | <0.31U | <0.34U | <0.34U | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | <0.33UJ | <0.32U | <0.32U | <0.35U | <0.35U | <0.35U |
| | Benzo(k)fluoranthene | µg/L | <0.69U | <0.68U | <0.67U | <0.73U | <0.73U | <0.73U |
| | Benzoic acid | µg/L | <95U | <93U | - | - | <100U | <100U |
| | Benzyl alcohol | µg/L | <2.8U | <6.5U | <0.4U | <0.44U | <0.44U | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | <0.33U | <0.32U | <0.32U | <0.35U | <0.35U | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | <0.38U | <0.37U | <0.37U | <0.4U | <0.4U | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.49U | <0.48U | <0.48U | <0.52U | <0.52U | <0.52U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.7U | <1.7U | <1.7U | <1.8U | **33** | <1.8U |
| | Butyl benzyl phthalate | µg/L | **1.3J** | <9.3U | <0.39U | <0.42U | <0.49U | <0.42U |
| | Carbazole | µg/L | <0.28U | <0.28U | <0.28U | <0.3U | <0.3U | <0.3U |
| | Chrysene | µg/L | <0.31U | <0.31U | <0.3U | <0.33U | <0.33U | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | <0.4U | <0.39U | <0.39U | <0.42U | <0.42U | <0.42U |
| | Dibenzofuran | µg/L | <0.48U | <0.47U | <0.47U | <0.51U | <0.51U | <0.51U |
| | Diethyl phthalate | µg/L | <0.21U | <0.2U | <0.2U | <0.22U | <0.22U | <0.22U |
| | Dimethyl phthalate | µg/L | <0.34U | <0.33U | <0.33U | <0.36U | <0.36U | <0.36U |

**MW-11**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-11 | MW-11 | MW-11 | MW-11 | MW-11 | MW-11 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/21/2014 | 4/22/2015 | 5/16/2016 | 4/24/2017 | 5/7/2018 | 4/22/2019 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Di-n-butyl phthalate | µg/L | <0.29U | <0.29U | <0.28U | <0.31U | <0.31U | <0.31U |
| | Di-n-octyl phthalate | µg/L | <0.45U | <0.44U | <0.43U | <0.47U | <0.47U | <0.47U |
| | Fluoranthene | µg/L | <0.38U | <0.37U | <0.37U | <0.4U | <0.4U | <0.4U |
| | Fluorene | µg/L | <0.34U | <0.33U | <0.33U | <0.36U | <0.36U | <0.36U |
| | Hexachlorobenzene | µg/L | <0.48U | <0.47U | <0.47U | <0.51U | <0.51U | <0.51U |
| | Hexachlorobutadiene | µg/L | <0.65U | <0.63U | <0.62U | <0.68U | <0.68U | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | <0.56U | <0.55U | <0.54U | <0.59U | <0.59U | <0.59U |
| | Hexachloroethane | µg/L | <0.56U | <0.55U | <0.54U | <0.59U | <0.59U | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.45U | <0.44U | <0.43U | <0.47U | <0.47U | <0.47U |
| | Isophorone | µg/L | <0.41U | <0.4U | <0.39U | <0.43U | <0.43U | <0.43U |
| | Naphthalene | µg/L | <0.72U | <0.7U | <0.7U | <0.76U | <0.76U | <0.76U |
| | Nitrobenzene | µg/L | <0.28U | <0.27U | <0.27U | <0.29U | <0.29U | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | <0.51U | <0.5U | <0.5U | <0.54U | <0.54U | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | <0.48U | <0.47U | <0.47U | <0.51U | <0.51U | <0.51U |
| | Pentachlorophenol | µg/L | <2.1U | <2U | <2U | <2.2U | <2.2U | <2.2U |
| | Phenanthrene | µg/L | <0.42U | <0.41U | <0.4U | <0.44U | <0.44U | <0.44U |
| | Phenol | µg/L | <0.37U | <0.36U | <0.36U | <0.39U | <0.39U | <0.39U |
| | Pyrene | µg/L | <0.32U | <0.31U | <0.31U | <0.34U | <0.34U | <0.34U |
| | Total SVOCS | µg/L | **1.3** | ND | ND | ND | **33** | ND |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.38U | <0.37U | <0.37U | <0.4U | <0.4U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21UJ | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.46U | <0.44U | <0.44U | <0.48U | <0.48U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <0.84U | <0.84U | <0.84U | <0.84U | <0.84U | <0.84U |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26UJ | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | ND | ND | ND | ND | ND | ND |

**MW-11**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-11 | MW-11 | MW-11 | MW-11 | MW-11 | MW-11 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/29/2020 | 4/26/2021 | 4/19/2022 | 4/24/2023 | 4/30/2024 | 4/21/2025 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **86** | **79.7** | **77.6** | **78.4** | **68.2J-** | **60.9** |
| | Ammonia | mg/L | <0.009U | <0.009UJ | <0.009UJ | <0.009U | <0.009U | <0.009U |
| | Nitrate+Nitrite | mg/L | <0.02U | **0.044J** | <0.02U | <0.02U | **0.03J** | **0.026J** |
| | Sulfate | mg/L | **11.8** | **13.2J+** | **14.1** | **14** | **10.3** | **11.5** |
| | Total Organic Carbon | mg/L | <0.43U | <0.43U | <0.43U | **0.57J** | <0.43U | 0.53J |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **1,400** | **1,500** | **1,400** | **1,200** | **1,100** | **1,100** |
| | Manganese | µg/L | **1,100** | **1,200** | **1,200** | **1,100** | **840** | **800** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | 1,2-Dichlorobenzene | µg/L | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 1,3-Dichlorobenzene | µg/L | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| | 1,4-Dichlorobenzene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | 1,4-Dioxane | µg/L | <1.1U | <1.1U | <1.1U | <1.1U | <1.1U | <1.1U |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | <0.61U | <0.61U | <0.61U | <0.61U | <0.61U |
| | 2,4-Dichlorophenol | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | 2,4-Dimethylphenol | µg/L | <0.5U | <0.5U | <0.5U | <0.5U | <0.5U | <0.5U |
| | 2,4-Dinitrophenol | µg/L | <2.2U | <2.2U | <2.2U | <2.2U | <2.2UJ | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 2-Chloronaphthalene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | 2-Chlorophenol | µg/L | <0.53U | <0.53U | <0.53U | <0.53U | <0.53U | <0.53U |
| | 2-Methylnaphthalene | µg/L | <0.6U | <0.6U | <0.6U | <0.6U | <0.6U | <0.6U |
| | 2-Methylphenol | µg/L | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 2-Nitroaniline | µg/L | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U |
| | 2-Nitrophenol | µg/L | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 3-Nitroaniline | µg/L | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48UJ |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| | 4-Chloroaniline | µg/L | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | 4-Methylphenol | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | 4-Nitroaniline | µg/L | <0.25U | <0.25U | <0.25U | <0.25U | <0.25U | <0.25U |
| | 4-Nitrophenol | µg/L | <1.5U | <1.5U | <1.5U | <1.5U | <1.5U | <1.5U |
| | Acenaphthene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Acenaphthylene | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | Anthracene | µg/L | <0.28U | <0.28U | <0.28U | <0.28U | <0.28U | <0.28U |
| | Benz(a)anthracene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Benzo(a)pyrene | µg/L | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U |
| | Benzo(b)fluoranthene | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35UJ | <0.35U |
| | Benzo(k)fluoranthene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Benzoic acid | µg/L | <100U | <100U | <100U | <100U | <100U | <100U |
| | Benzyl alcohol | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | <0.40U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | <0.52U | <0.52U | <0.52U | <0.52U | <0.52UJ |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | <1.8U | <1.8U | <1.8U | <1.8U | <1.8U |
| | Butyl benzyl phthalate | µg/L | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U |
| | Carbazole | µg/L | <0.3U | <0.3U | <0.3U | <0.3U | <0.3U | <0.3UJ |
| | Chrysene | µg/L | <0.33U | <0.33U | <0.33U | <0.33U | <0.33U | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U |
| | Dibenzofuran | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | Diethyl phthalate | µg/L | <0.22U | <0.22U | <0.22U | <0.22U | <0.22U | <0.22U |
| | Dimethyl phthalate | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |

**MW-11**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-11 | MW-11 | MW-11 | MW-11 | MW-11 | MW-11 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/29/2020 | 4/26/2021 | 4/19/2022 | 4/24/2023 | 4/30/2024 | 4/21/2025 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Di-n-butyl phthalate | µg/L | <0.31U | <0.31U | <10U | <0.31U | <0.31U | <0.31U |
| | Di-n-octyl phthalate | µg/L | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U |
| | Fluoranthene | µg/L | <0.40U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | Fluorene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Hexachlorobenzene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | Hexachlorobutadiene | µg/L | <0.68U | <0.68U | <0.68U | <0.68U | <0.68U | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | <0.59U | <0.59U | <0.59U | <0.59UJ | <0.59U |
| | Hexachloroethane | µg/L | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | <0.47U | <0.47U | <0.47U | <0.47UJ | <0.47U |
| | Isophorone | µg/L | <0.43U | <0.43U | <0.43U | <0.43U | <0.43U | <0.43U |
| | Naphthalene | µg/L | <0.76U | <0.76U | <0.76U | <0.76U | <0.76U | <0.76U |
| | Nitrobenzene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | <0.54U | <0.54U | <0.54U | <0.54U | <0.54UJ |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | Pentachlorophenol | µg/L | <2.2U | <2.2U | <2.2UJ | <2.2U | <2.2U | <2.2U |
| | Phenanthrene | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Phenol | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Pyrene | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Total SVOCS | µg/L | ND | ND | ND | ND | ND | ND |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29UJ | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | <0.79U | <0.79U | <0.4U | <0.79U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.84U | <0.78U | <0.78U | <0.48U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <0.78U | <0.84U | <0.84U | <0.46U | <0.84U | <0.84U |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.90U | <0.9U | <0.9U | <0.9U | <0.9UJ | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.90U | <0.9U | <0.9U | <0.9U | <0.9UJ | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | ND | ND | ND | ND | ND | ND |

# MW-18A
# HISTORICAL GROUNDWATER MONITORING DATA

## Cortese Landfill Site
## Narrowsburg, New York

| | Sample Location | | MW-18A | MW-18A | MW-18A | MW-18A | MW-18A |
|---|---|---|---|---|---|---|---|
| | Sample Date | | 12/27/2011 | 4/30/2012 | 11/20/2012 | 4/17/2013 | 10/22/2013 |
| | Parameters | Units | | | | | |
| General Chemistry | Alkalinity | mg/L | **138J** | **138J** | **131J** | **126** | **147J** |
| | Ammonia | mg/L | **0.059** | **0.059** | **0.013J** | **0.025J** | <0.009UJ |
| | Nitrate+Nitrite | mg/L | <0.05UJ | <0.05U | <0.05U | <0.02U | <0.02U |
| | Sulfate | mg/L | **15.9J** | **22.6J** | **17.3** | **19.2** | **19.3J** |
| | Total Organic Carbon | mg/L | **0.73J** | <1U | <1U | <0.43U | <0.43U |
| Metals | Arsenic | µg/L | **14** | <10U | <10U | <5.6U | <5.6U |
| | Iron | µg/L | **26,700** | **6,300J** | **1,200** | **1,600** | **5,600** |
| | Manganese | µg/L | **2,400** | **1,300** | **1,100** | **1,000** | **1,100** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <1.9U | <1.8U | <1.8U | <0.42U | - |
| | 1,2-Dichlorobenzene | µg/L | <1.9U | <1.8U | <1.8U | <0.38U | - |
| | 1,3-Dichlorobenzene | µg/L | <1.9U | <1.8U | <1.8U | <0.46U | - |
| | 1,4-Dichlorobenzene | µg/L | <4.4U | <4.2U | <4.2U | <0.44U | - |
| | 1,4-Dioxane | µg/L | <10U | <9.4U | <9.4U | <1U | - |
| | 2,4,5-Trichlorophenol | µg/L | <10U | <9.4U | <9.4U | <0.46U | - |
| | 2,4,6-Trichlorophenol | µg/L | <3.1U | <2.9U | <2.9U | <0.58U | - |
| | 2,4-Dichlorophenol | µg/L | <2.8U | <2.6U | <2.6U | <0.48U | - |
| | 2,4-Dimethylphenol | µg/L | <2.8U | <2.6U | <2.6U | <0.47U | - |
| | 2,4-Dinitrophenol | µg/L | <43U | <41U | <41U | <2.1U | - |
| | 2,4-Dinitrotoluene | µg/L | <5.8U | <5.5U | <5.5U | <0.42U | - |
| | 2,6-Dinitrotoluene | µg/L | <1.9U | <1.8U | <1.8U | <0.38U | - |
| | 2-Chloronaphthalene | µg/L | <1.9U | <1.8U | <1.8U | <0.44U | - |
| | 2-Chlorophenol | µg/L | <3.3U | <3.1U | <3.1U | <0.5U | - |
| | 2-Methylnaphthalene | µg/L | <10U | <9.4U | <9.4U | <0.57U | - |
| | 2-Methylphenol | µg/L | <10U | <9.4U | <9.4U | <0.38U | - |
| | 2-Nitroaniline | µg/L | <10U | <9.4U | <9.4U | <0.4U | - |
| | 2-Nitrophenol | µg/L | <3.6U | <3.4U | <3.4U | <0.46U | - |
| | 3,3-Dichlorobenzidine | µg/L | <17U | <16U | <16U | <0.38U | - |
| | 3-Nitroaniline | µg/L | <10U | <9.4U | <9.4U | <0.46U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <24U | <23U | <23U | <2.1U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <1.8U | <1.7U | <1.7U | <0.43U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <3U | <2.8U | <2.8U | <0.43U | - |
| | 4-Chloroaniline | µg/L | <2U | <1.9U | <1.9U | <0.56U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <4.3U | <4.1U | <4.1U | <0.33U | - |
| | 4-Methylphenol | µg/L | <10U | <9.4U | <9.4UJ | <0.34U | - |
| | 4-Nitroaniline | µg/L | <10U | <9.4U | <9.4U | <0.24U | - |
| | 4-Nitrophenol | µg/L | <3U | <2.8U | <2.8U | <1.4U | - |
| | Acenaphthene | µg/L | <1.8U | <1.7U | <1.7U | <0.39U | - |
| | Acenaphthylene | µg/L | <3.5U | <3.3U | <3.3U | <0.36U | - |
| | Anthracene | µg/L | <1.8U | <1.7U | <1.7U | <0.27U | - |
| | Benz(a)anthracene | µg/L | <7.8U | <7.4U | <7.4U | <0.34U | - |
| | Benzo(a)pyrene | µg/L | <2.6U | <2.5U | <2.5U | <0.45U | - |
| | Benzo(b)fluoranthene | µg/L | <10U | <9.4U | <9.4U | <0.32U | - |
| | Benzo(g,h,i)perylene | µg/L | <4.1U | <3.9U | <3.9U | <0.33U | - |
| | Benzo(k)fluoranthene | µg/L | <2.5U | <2.4U | <2.4U | <0.69U | - |
| | Benzoic acid | µg/L | <100U | <94U | <94U | <95U | - |
| | Benzyl alcohol | µg/L | <7U | <6.6U | <6.6U | <0.42U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <5.3U | <5U | <5U | <0.33U | - |
| | Bis(2-chloroethyl)ether | µg/L | <5.7U | <5.4U | <5.4U | <0.38U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <5.7U | <5.4U | <5.4U | <0.49U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | **25** | <9.4U | <9.4U | <1.7U | - |
| | Butyl benzyl phthalate | µg/L | <10U | <9.4U | <9.4U | <0.4U | - |
| | Carbazole | µg/L | <10U | <9.4U | <9.4UJ | <0.28U | - |
| | Chrysene | µg/L | <2.5U | <2.4U | <2.4U | <0.31U | - |
| | Dibenz(a,h)anthracene | µg/L | <10U | <9.4U | <9.4U | <0.4U | - |
| | Dibenzofuran | µg/L | <10U | <9.4U | <9.4U | <0.48U | - |
| | Diethyl phthalate | µg/L | <10U | <9.4U | <9.4U | <0.21U | - |
| | Dimethyl phthalate | µg/L | <10U | <9.4U | <9.4U | <0.34U | - |
| | Di-n-butyl phthalate | µg/L | <2.9U | <9.4U | <9.4U | <0.29U | - |
| | Di-n-octyl phthalate | µg/L | **0.96J** | <9.4U | <9.4U | <0.45U | - |
| | Fluoranthene | µg/L | <2.2U | <2.1U | <2.1U | <0.38U | - |

**MW-18A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18A | MW-18A | MW-18A | MW-18A | MW-18A |
|---|---|---|---|---|---|---|---|
| | Sample Date | | 12/27/2011 | 4/30/2012 | 11/20/2012 | 4/17/2013 | 10/22/2013 |
| | Parameters | Units | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <1.9U | <1.8U | <1.8U | <0.34U | - |
| | Hexachlorobenzene | µg/L | <2.2U | <2.1U | <2.1U | <0.48U | - |
| | Hexachlorobutadiene | µg/L | <2.6U | <2.4U | <2.4U | <0.64U | - |
| | Hexachlorocyclopentadiene | µg/L | <10U | <9.4U | <9.4U | <0.56U | - |
| | Hexachloroethane | µg/L | <2.8U | <2.7U | <2.7U | <0.56U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4.8U | <4.5U | <4.5U | <0.45U | - |
| | Isophorone | µg/L | <2.2U | <2.1U | <2.1U | <0.41U | - |
| | Naphthalene | µg/L | <1.6U | <1.5U | <1.5U | <0.72U | - |
| | Nitrobenzene | µg/L | <2U | <1.9U | <1.9U | <0.28U | - |
| | N-nitrosodi-n-propylamine | µg/L | <5U | <4.7U | <4.7U | <0.51U | - |
| | N-Nitrosodiphenylamine | µg/L | <1.9U | <1.8U | <1.8U | <0.48U | - |
| | Pentachlorophenol | µg/L | <5.1U | <4.8U | <4.8U | <2.1U | - |
| | Phenanthrene | µg/L | <5U | <4.7U | <4.7U | <0.42U | - |
| | Phenol | µg/L | <2.5UJ | <2.4U | <2.4U | <0.37U | - |
| | Pyrene | µg/L | <1.9U | <1.8U | <1.8U | <0.32U | - |
| | Total SVOCS | µg/L | **26** | ND | ND | ND | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | <5U | <5U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <5U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <5U | <5U | <5U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <5U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <1.9U | <1.8U | <1.8U | <0.38U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <5U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <1.9U | <1.8U | <1.8U | <0.46U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <4.4U | <4.2U | <4.2U | <0.44U | <0.84U |
| | 2-Butanone | µg/L | <5U | <5U | <5U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <5U | <5U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <5U | <2.1U | <2.1U |
| | Acetone | µg/L | <10U | <10U | <10U | <3U | <3U |
| | Benzene | µg/L | <5U | <5U | <5U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <5U | <5U | <5U | <0.39U | <0.39U |
| | Bromoform | µg/L | <5U | <5U | <5U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <5U | <5U | <5U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <5U | <5U | <5U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <5U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <5U | <5U | <5U | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U |
| | Chloroform | µg/L | <5U | <5U | <5U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <5U | <5U | <5U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <5U | <5U | <5U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <5U | <5U | <5U | <0.74U | <0.74U |
| | Styrene | µg/L | <5U | <5U | <5U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **0.67J** | <5U | <5U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U |
| | Toluene | µg/L | **0.7J** | <5U | <5UJ | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <5U | <5U | <5U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <5U | <5U | <5U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **1.4** | ND | ND | ND | ND |

**MW-18A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18A | MW-18A | MW-18A | MW-18A | MW-18A | MW-18A |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/22/2014 | 4/21/2015 | 5/16/2016 | 4/24/2017 | 5/8/2018 | 4/22/2019 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | - | **145** | **136** | **137** | **140** | **126** |
| | Ammonia | mg/L | - | <0.009U | <0.009U | <0.009U | <0.009U | <0.009U |
| | Nitrate+Nitrite | mg/L | - | <0.02U | <0.02U | <0.02U | <0.02U | <0.02U |
| | Sulfate | mg/L | - | **17.2** | **18.6** | **19** | **19.4** | **16.9** |
| | Total Organic Carbon | mg/L | - | **0.76J** | **0.61J** | <0.43U | <0.43U | **0.45J** |
| Metals | Arsenic | µg/L | - | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | - | **1,100** | **350** | **220** | **190** | **320** |
| | Manganese | µg/L | - | **1,500J** | **1,900** | **2,000** | **2,000** | **2,000** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <0.4U | <0.42U | <0.43U | <0.44U | <0.44U | <0.44U |
| | 1,2-Dichlorobenzene | µg/L | <0.37U | <0.38U | <0.39U | <0.4U | <0.4U | <0.4U |
| | 1,3-Dichlorobenzene | µg/L | <0.44U | <0.45U | <0.47U | <0.48U | <0.48U | <0.48U |
| | 1,4-Dichlorobenzene | µg/L | <0.42U | <0.44U | <0.45U | <0.46U | <0.46U | <0.46U |
| | 1,4-Dioxane | µg/L | <1U | <1U | <1.1U | <1.1U | <1.1U | <1.1U |
| | 2,4,5-Trichlorophenol | µg/L | <0.44U | <0.45U | <0.47U | <0.48U | <0.48U | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | <0.56U | <0.58U | <0.6U | <0.61U | <0.61U | <0.61U |
| | 2,4-Dichlorophenol | µg/L | <0.47U | <0.48U | <0.5U | <0.51U | <0.51U | <0.51U |
| | 2,4-Dimethylphenol | µg/L | <0.46U | <0.47U | <0.49U | <0.5U | <0.5U | <0.5U |
| | 2,4-Dinitrophenol | µg/L | <2U | <2.1U | <2.2U | <2.2U | <2.2U | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | <0.41U | <0.42U | <0.44U | <0.45U | <0.45U | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | <0.37U | <0.38U | <0.39U | <0.4U | <0.4U | <0.4U |
| | 2-Chloronaphthalene | µg/L | <0.42U | <0.44U | <0.45U | <0.46U | <0.46U | <0.46U |
| | 2-Chlorophenol | µg/L | <0.49U | <0.5U | <0.52U | <0.53U | <0.53U | <0.53U |
| | 2-Methylnaphthalene | µg/L | <0.55U | <0.57U | <0.59U | <0.6U | <0.6U | <0.6U |
| | 2-Methylphenol | µg/L | <0.37U | <0.38U | <0.39U | <0.4U | <0.4U | <0.4U |
| | 2-Nitroaniline | µg/L | <0.38U | <0.4U | <0.41U | <0.42U | <0.42U | <0.42U |
| | 2-Nitrophenol | µg/L | <0.44U | <0.45U | <0.47U | <0.48U | <0.48U | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | <0.37U | <0.38U | <0.39U | <0.4U | <0.4U | <0.4U |
| | 3-Nitroaniline | µg/L | <0.44UJ | <0.45U | <0.47U | <0.48U | <0.48U | <0.48U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2U | <2.1U | <2.2U | <2.2U | <2.2U | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <0.41U | <0.43U | <0.44U | <0.45U | <0.45U | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | <0.41U | <0.43U | <0.44U | <0.45U | <0.45U | <0.45U |
| | 4-Chloroaniline | µg/L | <0.54UJ | <0.56U | <0.58U | <0.59U | <0.59U | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.32U | <0.33U | <0.34U | <0.35U | <0.35U | <0.35U |
| | 4-Methylphenol | µg/L | <0.33U | <0.34U | <0.35U | <0.36U | <0.36U | <0.36U |
| | 4-Nitroaniline | µg/L | <0.23U | <0.24UJ | <0.24U | <0.25U | <0.25U | <0.25U |
| | 4-Nitrophenol | µg/L | <1.4U | <1.4U | <1.5U | <1.5U | <1.5U | <1.5U |
| | Acenaphthene | µg/L | <0.38U | <0.39U | <0.4U | <0.41U | <0.41U | <0.41U |
| | Acenaphthylene | µg/L | <0.35U | <0.36U | <0.37U | <0.38U | <0.38U | <0.38U |
| | Anthracene | µg/L | <0.26U | <0.27U | <0.27U | <0.28U | <0.28U | <0.28U |
| | Benz(a)anthracene | µg/L | <0.33U | <0.34U | <0.35U | <0.36U | <0.36U | <0.36U |
| | Benzo(a)pyrene | µg/L | <0.43U | <0.45U | <0.46U | <0.47U | <0.47U | <0.47U |
| | Benzo(b)fluoranthene | µg/L | <0.31U | <0.32U | <0.33U | <0.34U | <0.34U | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | <0.32UJ | <0.33U | <0.34U | <0.35U | <0.35U | <0.35U |
| | Benzo(k)fluoranthene | µg/L | <0.67U | <0.69U | <0.71U | <0.73U | <0.73U | <0.73U |
| | Benzoic acid | µg/L | <92U | <95U | - | <100U | <100U | <100U |
| | Benzyl alcohol | µg/L | <3U | <6.6U | <6.8U | <0.44U | <0.44U | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | <0.32U | <0.33U | <0.34U | <0.35U | <0.35U | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | <0.37U | <0.38U | <0.39U | <0.4U | <0.4U | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.48U | <0.49U | <0.51U | <0.52U | <0.52U | <0.52U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.6U | <1.7U | <1.8U | <1.8U | <1.8U | <1.8U |
| | Butyl benzyl phthalate | µg/L | <0.38U | <9.5U | <0.41U | <0.42U | <0.42U | <0.42U |
| | Carbazole | µg/L | <0.27U | <0.28U | <0.29U | <0.3U | <0.3U | <0.3U |
| | Chrysene | µg/L | <0.3U | <0.31U | <0.32U | <0.33U | <0.33U | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | <0.38U | <0.4U | <0.41U | <0.42U | <0.42U | <0.42U |
| | Dibenzofuran | µg/L | <0.47U | <0.48U | <0.5U | <0.51U | <0.51U | <0.51U |
| | Diethyl phthalate | µg/L | <0.2U | <0.21U | <0.22U | <0.22U | <0.22U | <0.22U |
| | Dimethyl phthalate | µg/L | <0.33U | <0.34U | <0.35U | <0.36U | <0.36U | <0.36U |
| | Di-n-butyl phthalate | µg/L | <0.28U | <0.29U | <0.3U | <0.31U | <0.31U | <0.31U |
| | Di-n-octyl phthalate | µg/L | <0.43U | <0.45U | <0.46U | <0.47U | <0.47U | <0.47U |
| | Fluoranthene | µg/L | <0.37U | <0.38U | <0.39U | <0.4U | <0.4U | <0.4U |

**MW-18A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18A | MW-18A | MW-18A | MW-18A | MW-18A | MW-18A |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/22/2014 | 4/21/2015 | 5/16/2016 | 4/24/2017 | 5/8/2018 | 4/22/2019 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <0.33U | <0.34U | <0.35U | <0.36U | <0.36U | <0.36U |
| | Hexachlorobenzene | µg/L | <0.47U | <0.48U | <0.5U | <0.51U | <0.51U | <0.51U |
| | Hexachlorobutadiene | µg/L | <0.62U | <0.64U | <0.67U | <0.68U | <0.68U | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | <0.54U | <0.56U | <0.58U | <0.59U | <0.59U | <0.59U |
| | Hexachloroethane | µg/L | <0.54U | <0.56U | <0.58U | <0.59U | <0.59U | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.43U | <0.45U | <0.46U | <0.47U | <0.47U | <0.47U |
| | Isophorone | µg/L | <0.39U | <0.41U | <0.42U | <0.43U | <0.43U | <0.43U |
| | Naphthalene | µg/L | <0.7U | <0.72U | <0.74U | <0.76U | <0.76U | <0.76U |
| | Nitrobenzene | µg/L | <0.27U | <0.27U | <0.28U | <0.29U | <0.29U | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | <0.49U | <0.51U | <0.53U | <0.54U | <0.54U | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | <0.47U | <0.48U | <0.5U | <0.51U | <0.51U | <0.51U |
| | Pentachlorophenol | µg/L | <2U | <2.1U | <2.2U | <2.2U | <2.2U | <2.2U |
| | Phenanthrene | µg/L | <0.4U | <0.42U | <0.43U | <0.44U | <0.44U | <0.44U |
| | Phenol | µg/L | <0.36U | <0.37U | <0.38U | <0.39U | <0.39U | <0.39U |
| | Pyrene | µg/L | <0.31U | <0.32U | <0.33U | <0.34U | <0.34U | <0.34U |
| | Total SVOCS | µg/L | ND | ND | ND | ND | ND | ND |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.37U | <0.38U | <0.39U | <0.4U | <0.4U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21UJ | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.44U | <0.45U | <0.47U | <0.48U | <0.48U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <0.42U | <0.44U | <0.45U | <0.46U | <0.46U | <0.84U |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2UJ | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1UJ | <2.1U |
| | Acetone | µg/L | <3U | <3U | **4.9J** | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32UJ | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.48U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | ND | ND | **4.9** | ND | ND | ND |

**MW-18A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18A | MW-18A | MW-18A | MW-18A | MW-18A | MW-18A |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2020 | 4/27/2021 | 4/19/2022 | 4/25/2023 | 5/1/2024 | 4/21/2025 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **151** | **132** | **121** | **136** | **120J-** | **93.8** |
| | Ammonia | mg/L | <0.009U | <0.009U | <0.009U | <0.009U | **0.015J** | <0.009U |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.02U | <0.02U | <0.02U | <0.02U | <0.02U |
| | Sulfate | mg/L | **20.6** | **19.9** | **19.3J-** | **18.2J-** | **12.5** | **16.9** |
| | Total Organic Carbon | mg/L | <0.43U | <0.43U | <0.43U | <0.43U | <0.43U | **0.69J** |
| Metals | Arsenic | µg/L | **8.5J** | **7.5J** | <5.6U | <5.6U | **7.7J** | **8.3J** |
| | Iron | µg/L | **200** | **200** | **260** | **210** | **170** | **190J+** |
| | Manganese | µg/L | **2,000** | **1,900** | **1,900** | **1,900** | **1,800** | **1,700** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <0.44U | <0.44U | <0.44U | **0.48J** | <0.44U | <0.44U |
| | 1,2-Dichlorobenzene | µg/L | <0.40U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 1,3-Dichlorobenzene | µg/L | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| | 1,4-Dichlorobenzene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | 1,4-Dioxane | µg/L | <1.1U | <1.1U | <1.1U | <1.1U | <1.1U | <1.1U |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | <0.61U | <0.61U | <0.61U | <0.61U | <0.61U |
| | 2,4-Dichlorophenol | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | 2,4-Dimethylphenol | µg/L | <0.5U | <0.5U | <0.5U | <0.5U | <0.5U | <0.5U |
| | 2,4-Dinitrophenol | µg/L | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 2-Chloronaphthalene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | 2-Chlorophenol | µg/L | <0.53U | <0.53U | <0.53U | <0.53U | <0.53U | <0.53U |
| | 2-Methylnaphthalene | µg/L | <0.6U | <0.6U | <0.6U | <0.6U | <0.6U | <0.6U |
| | 2-Methylphenol | µg/L | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 2-Nitroaniline | µg/L | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U |
| | 2-Nitrophenol | µg/L | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | 3-Nitroaniline | µg/L | <0.48U | <0.48UJ | <0.48U | <0.48U | <0.48U | <0.48UJ |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U | <0.45U |
| | 4-Chloroaniline | µg/L | <0.59U | <0.59UJ | <0.59U | <0.59U | <0.59U | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | 4-Methylphenol | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | 4-Nitroaniline | µg/L | <0.25U | <0.25U | <0.25U | <0.25U | <0.25U | <0.25U |
| | 4-Nitrophenol | µg/L | <1.5U | <1.5U | <1.5U | <1.5U | <1.5U | <1.5U |
| | Acenaphthene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Acenaphthylene | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | Anthracene | µg/L | <0.28U | <0.28U | <0.28U | <0.28U | <0.28U | <0.28U |
| | Benz(a)anthracene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Benzo(a)pyrene | µg/L | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U |
| | Benzo(b)fluoranthene | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | Benzo(k)fluoranthene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Benzoic acid | µg/L | <100U | <100U | <100U | <100U | <100U | <100U |
| | Benzyl alcohol | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | <0.52U | <0.52U | <0.52U | <0.52U | <0.52UJ |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | <1.8U | <1.8U | <1.8U | <1.8U | <1.8U |
| | Butyl benzyl phthalate | µg/L | <0.42U | <10U | <0.42U | <0.42U | <0.42U | <0.42U |
| | Carbazole | µg/L | <0.30U | <0.3U | <0.3U | <0.3U | <0.3U | <0.3UJ |
| | Chrysene | µg/L | <0.33U | <0.33U | <0.33U | <0.33U | <0.33U | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U | <0.42U |
| | Dibenzofuran | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | Diethyl phthalate | µg/L | <0.22U | <0.22U | <0.22U | <0.22U | <0.22U | <0.22U |
| | Dimethyl phthalate | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Di-n-butyl phthalate | µg/L | <0.31U | <0.31U | <10U | <0.31U | <0.31U | <0.31U |
| | Di-n-octyl phthalate | µg/L | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U |
| | Fluoranthene | µg/L | <0.40U | <0.4U | <0.4U | <0.4U | <0.4U | <0.4U |

**MW-18A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18A | MW-18A | MW-18A | MW-18A | MW-18A | MW-18A |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2020 | 4/27/2021 | 4/19/2022 | 4/25/2023 | 5/1/2024 | 4/21/2025 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Hexachlorobenzene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | Hexachlorobutadiene | µg/L | <0.68U | <0.68U | <0.68U | <0.68U | <0.68U | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U |
| | Hexachloroethane | µg/L | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U | <0.47U |
| | Isophorone | µg/L | <0.43U | <0.43U | <0.43U | <0.43U | <0.43U | <0.43U |
| | Naphthalene | µg/L | <0.76U | <0.76U | <0.76U | <0.76U | <0.76U | <0.76U |
| | Nitrobenzene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | <0.54U | <0.54U | <0.54U | <0.54U | <0.54UJ |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | Pentachlorophenol | µg/L | <2.2U | <2.2UJ | <2.2UJ | <2.2U | <2.2U | <2.2U |
| | Phenanthrene | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Phenol | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Pyrene | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Total SVOCS | µg/L | ND | ND | ND | **0.48** | ND | ND |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | <0.79U | <0.79U | <0.4U | <0.79U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.78U | <0.78U | <0.78U | <0.48U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <0.84U | <0.84U | <0.84U | <0.46U | <0.84U | <0.84U |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3.0U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32UJ | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.90U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.90U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | ND | ND | ND | ND | ND | ND |

# MW-18B
# HISTORICAL GROUNDWATER MONITORING DATA

## Cortese Landfill Site
## Narrowsburg, New York

| | Sample Location | | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 12/27/2011 | 4/30/2012 | 11/20/2012 | 4/17/2013 | 10/22/2013 | 4/22/2014 | 10/21/2014 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **132J** | **121J** | **116J** | **192** | **148J** | - | **99.9** |
| | Ammonia | mg/L | **2.4** | **3.6** | **4.2** | **4.9** | **4.1J** | - | **3.2** |
| | Nitrate+Nitrite | mg/L | <0.05UJ | <0.05U | <0.05U | <0.02U | **0.022J** | - | <0.02UJ |
| | Sulfate | mg/L | **6.9J** | **6.1J** | **5.8** | **14** | <5U | - | <1.5U |
| | Total Organic Carbon | mg/L | **1.8** | **2.1** | **8.1** | **5.4** | **4.1** | - | **2.2** |
| Metals | Arsenic | µg/L | **18** | **71** | **120** | **130** | **130** | - | **100** |
| | Iron | µg/L | **19,300** | **59,900J** | **78,600** | **84,000** | **64,900** | - | **44,400** |
| | Manganese | µg/L | **12,400** | **16,200** | **17,400** | **19,000** | **13,500** | - | **10,100** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **3.3** | **6.4** | **9.3** | **8.4J** | - | <2U | - |
| | 1,2-Dichlorobenzene | µg/L | **5.5** | **11** | **22** | **28** | - | **9.3** | - |
| | 1,3-Dichlorobenzene | µg/L | **3.3** | **6.8** | **15** | **21** | - | **7.3J** | - |
| | 1,4-Dichlorobenzene | µg/L | **21** | **43** | **97** | **130** | - | **46** | - |
| | 1,4-Dioxane | µg/L | **6.1J** | **6.8J** | **26** | <5.2U | - | **34J** | - |
| | 2,4,5-Trichlorophenol | µg/L | <9.4U | <9.6U | <9.4U | <2.3U | - | <2.2U | - |
| | 2,4,6-Trichlorophenol | µg/L | <2.9U | <3U | <2.9U | <2.9U | - | <2.8U | - |
| | 2,4-Dichlorophenol | µg/L | <2.6U | <2.7U | <2.6U | <2.4U | - | <2.4U | - |
| | 2,4-Dimethylphenol | µg/L | **1.7J** | **3.4** | **8.8** | **8.8J** | - | <2.3U | - |
| | 2,4-Dinitrophenol | µg/L | <41U | <41U | <41U | <11U | - | <10U | - |
| | 2,4-Dinitrotoluene | µg/L | <5.5U | <5.6U | <5.5U | <2.1U | - | <2.1U | - |
| | 2,6-Dinitrotoluene | µg/L | <1.8U | <1.8U | <1.8U | <1.9U | - | <1.8U | - |
| | 2-Chloronaphthalene | µg/L | <1.8U | <1.8U | <1.8U | <2.2U | - | <2.1U | - |
| | 2-Chlorophenol | µg/L | <3.1U | <3.2U | <3.1U | <2.5U | - | <2.4U | - |
| | 2-Methylnaphthalene | µg/L | **2.1J** | **2.1J** | **5.6J** | **8.1J** | - | **5.4J** | - |
| | 2-Methylphenol | µg/L | **1.9J** | **4.5J** | **7.3J** | **9.4J** | - | <1.8U | - |
| | 2-Nitroaniline | µg/L | <9.4U | <9.6U | <9.4U | <2U | - | <1.9U | - |
| | 2-Nitrophenol | µg/L | <3.4U | <3.5U | <3.4U | <2.3U | - | <2.2U | - |
| | 3,3-Dichlorobenzidine | µg/L | <16U | <16U | <16U | <1.9U | - | <1.8U | - |
| | 3-Nitroaniline | µg/L | <9.4U | <9.6U | <9.4U | <2.3U | - | <2.2UJ | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <23U | <23U | <23U | <10U | - | <10U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <1.7U | <1.7U | <1.7U | <2.1U | - | <2.1U | - |
| | 4-Chloro-3-Methylphenol | µg/L | **1.3J** | <2.9U | <2.8U | **4.1J** | - | <2.1U | - |
| | 4-Chloroaniline | µg/L | <1.9U | <1.9U | <1.9U | <2.8U | - | <2.7UJ | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <4.1U | <4.1U | <4.1U | <1.7U | - | <1.6U | - |
| | 4-Methylphenol | µg/L | **0.42J** | **3.6J** | **3.4J** | **3.4J** | - | <1.7U | - |
| | 4-Nitroaniline | µg/L | <9.4U | <9.6U | <9.4U | <1.2U | - | <1.2U | - |
| | 4-Nitrophenol | µg/L | <2.8U | <2.9U | <2.8U | <7.2U | - | <7U | - |
| | Acenaphthene | µg/L | <1.7U | <1.7U | **0.58J** | <1.9U | - | <1.9U | - |
| | Acenaphthylene | µg/L | <3.3U | <3.4U | <3.3U | <1.8U | - | <1.8U | - |
| | Anthracene | µg/L | <1.7U | <1.7U | <1.7U | <1.3U | - | <1.3U | - |
| | Benz(a)anthracene | µg/L | <7.4U | <7.5U | <7.4U | <1.7U | - | <1.7U | - |
| | Benzo(a)pyrene | µg/L | <2.5U | <2.5U | <2.5U | <2.2U | - | <2.2U | - |
| | Benzo(b)fluoranthene | µg/L | <9.4U | <9.6U | <9.4U | <1.6U | - | <1.6U | - |
| | Benzo(g,h,i)perylene | µg/L | <3.9U | <3.9U | <3.9U | <1.7U | - | <1.6UJ | - |
| | Benzo(k)fluoranthene | µg/L | <2.4U | <2.4U | <2.4U | <3.5U | - | <3.4U | - |
| | Benzoic acid | µg/L | <94U | <96U | <94U | <470U | - | <460U | - |
| | Benzyl alcohol | µg/L | <6.6U | <6.7U | **1.6J** | <2.1U | - | <2U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <5U | <5.1U | <5U | <1.7U | - | <1.6U | - |
| | Bis(2-chloroethyl)ether | µg/L | <5.4U | <5.5U | <5.4U | <1.9U | - | <1.8U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <5.4U | <5.5U | <5.4U | <2.5U | - | <2.4U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | **5.9J** | <9.6U | <9.4U | <8.5U | - | <8.3U | - |
| | Butyl benzyl phthalate | µg/L | **0.87J** | <9.6U | <9.4U | <2U | - | <1.9U | - |
| | Carbazole | µg/L | <9.4U | <9.6U | <9.4UJ | <1.4U | - | <1.4U | - |
| | Chrysene | µg/L | <2.4U | <2.4U | <2.4U | <1.6U | - | <1.5U | - |
| | Dibenz(a,h)anthracene | µg/L | <9.4U | <9.6U | <9.4U | <2U | - | <1.9U | - |
| | Dibenzofuran | µg/L | <9.4U | <9.6U | <9.4U | <2.4U | - | <2.4U | - |
| | Diethyl phthalate | µg/L | **0.89J** | **1.3J** | **3.1J** | **3.1J** | - | <1U | - |
| | Dimethyl phthalate | µg/L | <9.4U | <9.6U | <9.4U | <1.7U | - | <1.7U | - |
| | Di-n-butyl phthalate | µg/L | <3.5U | **0.43J** | <9.4U | <1.5U | - | <1.4U | - |
| | Di-n-octyl phthalate | µg/L | <9.4U | <9.6U | <9.4U | <2.2U | - | <2.2U | - |
| | Fluoranthene | µg/L | <2.1U | <2.1U | <2.1U | <1.9U | - | <1.8U | - |

**MW-18B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 12/27/2011 | 4/30/2012 | 11/20/2012 | 4/17/2013 | 10/22/2013 | 4/22/2014 | 10/21/2014 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <1.8U | <1.8U | <1.8U | <1.7U | - | <1.7U | - |
| | Hexachlorobenzene | µg/L | <2.1U | <2.1U | <2.1U | <2.4U | - | <2.4U | - |
| | Hexachlorobutadiene | µg/L | <2.4U | <2.5U | <2.4U | <3.2U | - | <3.1U | - |
| | Hexachlorocyclopentadiene | µg/L | <9.4U | <9.6U | <9.4U | <2.8U | - | <2.7U | - |
| | Hexachloroethane | µg/L | <2.7U | <2.7U | <2.7U | <2.8U | - | <2.7U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4.5U | <4.6U | <4.5U | <2.2U | - | <2.2U | - |
| | Isophorone | µg/L | <2.1U | <2.1U | **0.79J** | <2U | - | <2U | - |
| | Naphthalene | µg/L | **7.1** | **11** | **39** | **47** | - | **16** | - |
| | Nitrobenzene | µg/L | <1.9U | <1.9U | <1.9U | <1.4U | - | <1.3U | - |
| | N-nitrosodi-n-propylamine | µg/L | <4.7U | <4.8U | <4.7U | <2.6U | - | <2.5U | - |
| | N-Nitrosodiphenylamine | µg/L | <1.8U | <1.8U | <1.8U | <2.4U | - | <2.4U | - |
| | Pentachlorophenol | µg/L | <4.8U | <4.9U | <4.8U | <10U | - | <10U | - |
| | Phenanthrene | µg/L | <4.7U | <4.8U | <4.7U | <2.1U | - | <2U | - |
| | Phenol | µg/L | <2.4UJ | <2.4U | <2.4U | <1.8U | - | <1.8U | - |
| | Pyrene | µg/L | <1.8U | <1.8U | <1.8U | <1.6U | - | <1.6U | - |
| | Total SVOCS | µg/L | **62** | **110** | **240** | **280** | - | **120** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | <5U | <40U | <33U | <4.1U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <40U | <8.4U | <1.1U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <40U | <9.2U | <1.2U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **36J** | **100J** | **41** | **38J** | **27** | **28** | **22** |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <40U | <12U | <1.5U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **7.1** | **17J** | **29J** | **49J** | **26** | **13** | **8.4** |
| | 1,2-Dichloroethane | µg/L | <5U | **1.4J** | <40U | <8.4U | <1.1U | **0.42J** | **0.44J** |
| | 1,2-Dichloropropane | µg/L | <5U | **1.1J** | <40U | <29U | <3.6U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **4.4J** | **10** | **21J** | **35J** | **18J** | **9.6** | **6.1** |
| | 1,4-Dichlorobenzene | µg/L | **28** | **63** | **130** | **230** | **120** | **61** | **45** |
| | 2-Butanone | µg/L | **2.5J** | **5.1** | <40U | <53U | <6.6U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <5U | <40U | <50U | <6.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <5U | **2.4J** | <40U | <84U | <11U | <2.1U | <2.1U |
| | Acetone | µg/L | **4.4J** | <10U | <80U | <120U | <15U | **3J** | <3U |
| | Benzene | µg/L | **4.3J** | **15J** | **26J** | **39J** | **14J** | **6.5** | **4J** |
| | Dichlorobromomethane | µg/L | <5U | <5U | <40U | <16U | <2U | <0.39U | <0.39U |
| | Bromoform | µg/L | <5U | <5U | <40U | <10U | <1.3U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <5U | <5U | <40U | <28U | <3.5U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <5U | <5U | <40U | <7.6U | <0.95U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <40U | <11U | <1.4U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **15** | **43J** | **88** | **140J** | **70** | **35** | **29** |
| | Chlorodibromomethane | µg/L | <5U | <5U | <40U | <13U | <1.6U | <0.32U | <0.32U |
| | Chloroethane | µg/L | **2.9J** | **76** | **340** | **280** | **41** | **2.8J** | **0.98J** |
| | Chloroform | µg/L | **0.66J** | **0.59J** | <40U | <14U | <1.7U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <5U | <5U | <40U | <14U | <1.8U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **2.4** | **3.2J** | <8U | <32U | <4.1U | **0.88J** | **1.3** |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <40U | <14U | <1.8U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <5U | <5U | <40U | <18U | <2.2U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | **19J** | **83J** | **170** | **240** | **92** | **40** | **16** |
| | Styrene | µg/L | <5U | <5U | <40U | <29U | <3.7U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **0.63J** | **0.76J** | <40U | <18U | <2.3U | **0.9J** | **0.68J** |
| | Tetrachloroethene | µg/L | <5U | **0.47J** | <40U | <14U | <1.8U | <0.36U | <0.36U |
| | Toluene | µg/L | **55J** | **640J** | **2700** | **3500** | **370** | **40** | **1.3J** |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <8U | <36U | <4.5U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <40U | <15U | <1.9U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | **4.5J** | **4.4J** | <40U | <36U | <4.5U | <0.9U | <0.9UJ |
| | Total Xylenes | µg/L | **46** | **180** | **600** | **900** | **300** | **63** | **17** |
| | Total VOCS | µg/L | **240** | **1,300** | **4,200** | **5,500** | **1,100** | **310** | **160** |

**MW-18B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/21/2015 | 10/20/2015 | 5/16/2016 | 10/28/2016 | 4/24/2017 | 10/18/2017 | 5/8/2018 | 10/16/2018 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **88.1** | **142** | **72.8** | **65.2** | **48.5** | **72.5** | **33.1** | - |
| | Ammonia | mg/L | **2.2** | **3.5** | **2.6** | **2.4** | **2.5** | **2.5** | **2.5** | **2.9** |
| | Nitrate+Nitrite | mg/L | <0.02U | **0.044J** | <0.02U | **0.034J** | **0.083** | **0.041J** | **0.11** | <0.02U |
| | Sulfate | mg/L | <1.5U | <1.5U | <5U | <1.5U | **10.1** | **16.6** | **17** | **37.9J** |
| | Total Organic Carbon | mg/L | **2** | **3.4** | **2.2** | **2.3** | **2** | **2.5** | **2.2** | **3.2** |
| Metals | Arsenic | µg/L | **100** | **100** | **83** | **92** | **90** | **57** | **84** | **79** |
| | Iron | µg/L | **36,000** | **47,300** | **31,400** | **31,000** | **25,500** | **19,000** | **26,100** | **30,100** |
| | Manganese | µg/L | **8,300J** | **10,500** | **7,300** | **6,900** | **6,600** | **4,700** | **6,300** | **7,400** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <2.1U | - | **1.8** | - | **1.3J** | - | **1.4J** | - |
| | 1,2-Dichlorobenzene | µg/L | **5.7J** | - | **6** | - | **2.8** | - | **2.4** | - |
| | 1,3-Dichlorobenzene | µg/L | **4.2J** | - | **4.3** | - | **2.3** | - | **2.3** | - |
| | 1,4-Dichlorobenzene | µg/L | **25** | - | **24** | - | **13** | - | **10** | - |
| | 1,4-Dioxane | µg/L | **10J** | - | **4.4J** | - | **5J** | - | <1.1U | - |
| | 2,4,5-Trichlorophenol | µg/L | <2.3U | - | <0.44U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <2.9U | - | <0.57U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <2.4U | - | <0.47U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <2.4U | - | **0.73J** | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | <11U | - | <2.1U | - | <2.2U | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <2.1U | - | <0.41U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <1.9U | - | <0.37U | - | <0.4U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | <2.2U | - | <0.43U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <2.5U | - | <0.49U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <2.8U | - | **1J** | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | <1.9U | - | <0.37U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | <2U | - | <0.39U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <2.3U | - | <0.44U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <1.9U | - | <0.37U | - | <0.4U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | <2.3U | - | <0.44U | - | <0.48U | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <10U | - | <2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <2.1U | - | <0.42U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <2.1U | - | **1.1J** | - | <0.45U | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | <2.8U | - | <0.55U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <1.7U | - | <0.32U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | <1.7U | - | <0.33U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <1.2UJ | - | <0.23U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <7.2U | - | <1.4U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | <1.9U | - | <0.38U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | <1.8U | - | <0.35U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | <1.3U | - | <0.26U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <1.7U | - | <0.33U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <2.2U | - | <0.44U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <1.6U | - | <0.32U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <1.7U | - | <0.32U | - | <0.35U | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <3.5U | - | <0.68U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | <470U | - | - | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | <2.1U | - | <0.41U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <1.7U | - | <0.32U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <1.9U | - | <0.37U | - | <0.4U | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <2.5U | - | <0.48U | - | <0.52U | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <8.5U | - | <1.7U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <2U | - | <0.39U | - | <0.42U | - | <0.42U | - |
| | Carbazole | µg/L | <1.4U | - | <0.28U | - | <0.3U | - | <0.3U | - |
| | Chrysene | µg/L | <1.6U | - | <0.31U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <2U | - | <0.39U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | <2.4U | - | <0.47U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | <1U | - | **0.4J** | - | <0.22U | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | <1.7U | - | <0.33U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | <1.5U | - | <0.29U | - | <0.31U | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | <2.2U | - | <0.44U | - | <0.47U | - | <0.47U | - |
| | Fluoranthene | µg/L | <1.9U | - | <0.37U | - | <0.4U | - | <0.4U | - |

**MW-18B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/21/2015 | 10/20/2015 | 5/16/2016 | 10/28/2016 | 4/24/2017 | 10/18/2017 | 5/8/2018 | 10/16/2018 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <1.7U | - | <0.33U | - | <0.36U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | <2.4U | - | <0.47U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <3.2U | - | <0.63U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <2.8U | - | <0.55U | - | <0.59U | - | <0.59U | - |
| | Hexachloroethane | µg/L | <2.8U | - | <0.55U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <2.2U | - | <0.44U | - | <0.47U | - | <0.47U | - |
| | Isophorone | µg/L | <2U | - | <0.4U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | <3.6U | - | **4.1** | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | <1.4U | - | <0.27U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <2.6U | - | <0.5U | - | <0.54U | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | <2.4U | - | <0.47U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <10U | - | <2U | - | <2.2U | - | <2.2U | - |
| | Phenanthrene | µg/L | <2.1U | - | <0.41U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | <1.8U | - | <0.36U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | <1.6U | - | <0.32U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | **45** | - | **48** | - | **25** | - | **17** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <4.1UJ | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <1.1U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <1.2U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **28** | **81** | **20** | **13** | **5.2** | **4.9J** | **5.2** | **4.9J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <1.5U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **7.8** | **13J** | **7.5** | **5.5** | **3J** | **2.6J** | **2.9J** | **2.2J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <1.1U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <3.6U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **6.1** | **9.7J** | **5.8** | **4.2J** | **2.5J** | **3.1J** | **2.9J** | **2.4J** |
| | 1,4-Dichlorobenzene | µg/L | **36** | **54** | **33** | **25** | **14** | **14** | **13** | **11** |
| | 2-Butanone | µg/L | **1.5J** | <6.6U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <6.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2UJ | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <11U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1UJ | <2.1U |
| | Acetone | µg/L | <3U | <15U | <3UJ | <3U | **3.8J** | **4.3J** | <3U | <3U |
| | Benzene | µg/L | **3.1J** | **6.2J** | **2.2J** | **1.3J** | **0.53J** | **0.52J** | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <2U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <1.3U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <3.5U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.95U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <1.4U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **21** | **34** | **15** | **10** | **5** | **4.8J** | **4.2J** | **3.1J** |
| | Chlorodibromomethane | µg/L | <0.32U | <1.6U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | **1.4J** | <1.6U | <0.32U | **1.6J** | <0.32UJ | **0.43J** | **0.48J** | <0.32U |
| | Chloroform | µg/L | <0.34U | <1.7U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <1.8U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **3.4** | <4.1U | **1.1** | **1.2** | <0.81U | <0.81U | **0.91J** | **0.98J** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <1.8U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <2.2U | <0.44U | <0.44U | <0.44U | <0.44U | <0.52U | <0.44U |
| | Ethylbenzene | µg/L | **5.7** | **45** | **6.5** | **2.6J** | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <3.7U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **0.7J** | <2.3U | **0.79J** | **1.8J** | **1.1J** | **1.2J** | **2.2J** | **3.6J** |
| | Tetrachloroethene | µg/L | <0.36U | <1.8U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | **4J** | **220** | **25** | **1.2J** | **1.3J** | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <4.5U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <1.9U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | **5.5** | **6.9J** | **0.98J** | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | **15** | **120** | **21** | **5.8** | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **140** | **590** | **140** | **74** | **37** | **36** | **32** | **29** |

**MW-18B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/23/2019 | 10/7/2019 | 4/30/2020 | 10/19/2020 | 4/27/2021 | 10/27/2021 | 4/19/2022 | 10/26/2022 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **36** | **71.9** | **81.9** | **71.7** | **58.4** | **31** | **50.5** | **76.3** |
| | Ammonia | mg/L | **3.1** | **3.4** | **3.6** | **3.4** | **2.8** | **2.9** | **5.6** | **2.6** |
| | Nitrate+Nitrite | mg/L | **0.046J** | **0.069** | **0.10** | **0.095** | **0.023J** | **0.072** | <0.02U | <0.02U |
| | Sulfate | mg/L | **39** | **44.1** | **42.8** | **42.7** | **30.2** | **29.5** | **23.1** | **22.1** |
| | Total Organic Carbon | mg/L | **3.5J** | **4.5** | **5.9** | **4.6** | **4.5** | **3.8** | **3.3** | **2.8** |
| Metals | Arsenic | µg/L | **73** | **69** | **79** | **71** | **71** | **64** | **55** | **56** |
| | Iron | µg/L | **35,000** | **43,600** | **47,900** | **47,000** | **49,700** | **45,400** | **39,500** | **36,900** |
| | Manganese | µg/L | **8,700** | **10,700** | **12,200** | **11,700** | **11,800** | **11,400** | **10,000** | **11,000** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **1.5J** | - | **2.8** | - | **1.9J-** | - | **4.7** | - |
| | 1,2-Dichlorobenzene | µg/L | **1.9** | - | **3.1J** | - | **1.7J** | - | **3.2** | - |
| | 1,3-Dichlorobenzene | µg/L | **2.1** | - | **3.7J** | - | **2.3J-** | - | **4.8** | - |
| | 1,4-Dichlorobenzene | µg/L | **8.2** | - | **12** | - | **7.9J-** | - | **15** | - |
| | 1,4-Dioxane | µg/L | **14** | - | **22** | - | **24J-** | - | **22** | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | <0.61U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | <0.5U | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | <0.45U | - | <0.45UJ | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | <0.4U | - | <0.4UJ | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | <0.46U | - | <0.46UJ | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | <0.53U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | <0.6U | - | <0.6UJ | - | <0.6U | - |
| | 2-Methylphenol | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | <0.42U | - | <0.42UJ | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | - | <0.4U | - | <0.4UJ | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | <0.48U | - | <0.48UJ | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | <0.45U | - | <0.45UJ | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | <0.45U | - | <0.45U | - | **0.91J** | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | <0.59U | - | <0.59UJ | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | <0.35U | - | <0.35UJ | - | <0.35U | - |
| | 4-Methylphenol | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | <0.25U | - | <0.25UJ | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | <0.41U | - | <0.41U | - | <0.41UJ | - | <0.41U | - |
| | Acenaphthylene | µg/L | <0.38U | - | <0.38U | - | <0.38UJ | - | <0.38U | - |
| | Anthracene | µg/L | <0.28U | - | <0.28U | - | <0.28UJ | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | <0.36U | - | <0.36UJ | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47UJ | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | <0.34U | - | <0.34UJ | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | <0.35U | - | <0.35UJ | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | <0.73U | - | <0.73UJ | - | <0.73U | - |
| | Benzoic acid | µg/L | <100U | - | <100U | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | <0.44U | - | <0.44U | - | <0.44UJ | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | <0.35U | - | <0.35UJ | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | <0.4U | - | <0.4UJ | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | <0.52U | - | <0.52UJ | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | <1.8U | - | <1.8UJ | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <0.42U | - | <0.42U | - | <10UJ | - | <0.42U | - |
| | Carbazole | µg/L | <0.3U | - | <0.30U | - | <0.3UJ | - | <0.3U | - |
| | Chrysene | µg/L | <0.33U | - | <0.33U | - | <0.33UJ | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | <0.42U | - | <0.42UJ | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.51U | - | <0.51U | - | <0.51UJ | - | <0.51U | - |
| | Diethyl phthalate | µg/L | <0.22U | - | **0.22J** | - | <0.22UJ | - | **0.44J** | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | <0.36U | - | <0.36UJ | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | <0.31U | - | <0.31U | - | <0.31UJ | - | <10U | - |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | <0.47U | - | <0.47UJ | - | <0.47U | - |
| | Fluoranthene | µg/L | <0.4U | - | <0.4U | - | <0.4UJ | - | <0.4U | - |

**MW-18B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/23/2019 | 10/7/2019 | 4/30/2020 | 10/19/2020 | 4/27/2021 | 10/27/2021 | 4/19/2022 | 10/26/2022 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <0.36U | - | <0.36U | - | <0.36UJ | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | <0.51U | - | <0.51U | - | <0.51UJ | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | <0.68U | - | <0.68UJ | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | <0.59U | - | <0.59UJ | - | <0.59U | - |
| | Hexachloroethane | µg/L | <0.59U | - | <0.59U | - | <0.59UJ | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47UJ | - | <0.47U | - |
| | Isophorone | µg/L | <0.43U | - | <0.43U | - | <0.43UJ | - | <0.43U | - |
| | Naphthalene | µg/L | <0.76U | - | <0.76U | - | <0.76UJ | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.29U | - | <0.29U | - | <0.29UJ | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | <0.54U | - | <0.54UJ | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | <0.51U | - | <0.51UJ | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <2.2U | - | <2.2U | - | <2.2UJ | - | <2.2UJ | - |
| | Phenanthrene | µg/L | <0.44U | - | <0.44U | - | <0.44UJ | - | <0.44U | - |
| | Phenol | µg/L | <0.39U | - | <0.39U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | <0.34U | - | <0.34U | - | <0.34UJ | - | <0.34U | - |
| | Total SVOCS | µg/L | **28** | - | **44** | - | **38** | - | **52** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <1.6U | <3.3U | <3.3U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.42U | <0.84U | <0.84U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.46U | <0.92U | <0.92U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **10** | **11** | **13** | **11J** | **11J** | **11** | **6.9** | **7.8** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | **3.2** | <1.2U | <1.2U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **2.4J** | **2.1J** | **3.2J** | <3.2U | **4.6J** | **6.7** | **4.6J** | **4.2J** |
| | 1,2-Dichloroethane | µg/L | **0.29J** | <0.21U | <0.42U | <0.84U | <0.84U | **0.4J** | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <1.4U | <2.9U | <2.9U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **2.7J** | **2.7J** | **4J** | **3.6J** | **5.7J** | **8.6** | **7.3** | **7** |
| | 1,4-Dichlorobenzene | µg/L | **11** | **9.2** | **14** | **14J** | **21** | **33** | **21** | **19** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <2.6U | <5.3U | <5.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <2.5U | <5.0U | <5U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <4.2U | <8.4U | <8.4U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | **4J** | <3U | <3.0U | <3.0U | <12U | <3U | <3U | <3U |
| | Benzene | µg/L | **0.59J** | **0.83J** | **1.2J** | <1.6U | **1.9J** | **1.8J** | **1.2J** | **1.6J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.78U | <1.6U | <1.6U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.52U | <1.0U | <1U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <1.4U | <2.8U | <2.8U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.38U | <0.76U | <0.76U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.54U | <1.1U | <1.1U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **3.9J** | **4.3J** | **8.3J** | **7.7J** | **14J** | **22** | **14** | **20** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.64U | <1.3U | <1.3U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.64U | <1.3U | <1.3U | **0.89J** | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.68U | <1.4U | <1.4U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35UJ | <0.7U | <1.4U | <1.4U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **3.3** | **1.8** | <1.6U | <3.2U | <3.2U | **1.7** | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.72U | <1.4U | <1.4U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.88U | **2.1J** | <1.8U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <1.5U | <3.0U | <3U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <1.5U | <2.9U | <2.9U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **3.6J** | **2.6J** | **1.9J** | <1.8U | <1.8U | **2.4J** | **0.78J** | **0.71J** |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.72U | <1.4U | <1.4U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <1.0U | <2.0U | <2U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9UJ | <1.8U | <3.6U | <3.6U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.74U | <1.5U | <1.5U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | **3.8J** | <0.9U | <1.8U | <3.6U | <3.6U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <1.3U | <2.6U | <2.6U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **46** | **35** | **46** | **39** | **59** | **89** | **56** | **61** |

**MW-18B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/25/2023 | 10/31/2023 | 5/1/2024 | 10/29/2024 | 4/21/2025 | 10/23/2025 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **98** | **59.2** | **69.5J-** | **144** | **97.5** | **85.6** |
| | Ammonia | mg/L | **2.4** | **2.4** | **2.4** | **0.8** | **1.1** | **1.1** |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.05UJ | **2.5** | <0.02UR | **0.046J** | **0.022J** |
| | Sulfate | mg/L | **18.6** | **11.4** | **0.056** | **12.7** | **13.1** | **7.4** |
| | Total Organic Carbon | mg/L | **2.4** | **2.4** | **9.7** | **2.1** | **4** | **2.1** |
| Metals | Arsenic | µg/L | **58** | **71** | **51** | **45** | **61** | **59** |
| | Iron | µg/L | **41,300** | **41,600** | **41,800** | **37,400** | **43,300** | **43,000** |
| | Manganese | µg/L | **11,100** | **11,300** | **11,400** | **10,200** | **11,000** | **11,100** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **7** | - | **5.4** | - | **5.9J+** | - |
| | 1,2-Dichlorobenzene | µg/L | **5** | - | **4.5** | - | **4.7** | - |
| | 1,3-Dichlorobenzene | µg/L | **7.7** | - | **6.1** | - | **6** | - |
| | 1,4-Dichlorobenzene | µg/L | **20** | - | **15** | - | **14** | - |
| | 1,4-Dioxane | µg/L | **32** | - | **3.8J** | - | **10** | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | **0.73J** | - | **0.56J** | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | <0.48U | - | <0.48UJ | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | **0.43J** | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | <0.41U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | <0.38U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | <0.28U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | <0.35U | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | <100U | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | <0.44U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | <0.52U | - | <0.52UJ | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | Carbazole | µg/L | <0.3U | - | <0.3U | - | <0.3UJ | - |
| | Chrysene | µg/L | <0.33U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | <0.22U | - | <0.22U | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | **0.35J** | - | <0.31U | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | <0.47U | - | <0.47U | - |
| | Fluoranthene | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |

**MW-18B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B | MW-18B |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/25/2023 | 10/31/2023 | 5/1/2024 | 10/29/2024 | 4/21/2025 | 10/23/2025 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | <0.59U | - | <0.59U | - |
| | Hexachloroethane | µg/L | <0.59U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47U | - |
| | Isophorone | µg/L | <0.43U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | <0.76U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.29U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | <0.54U | - | <0.54UJ | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - |
| | Phenanthrene | µg/L | <0.44U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | <0.39U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | **73** | - | **36** | - | **42** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **8.9** | **9.1** | **8.5** | **5.9** | **10** | **12** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **6.2** | **7.7** | **6.9** | **6.5** | **7.2** | **8.3** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | **0.25J** |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **9.6** | **11** | **10** | **8.3** | **10** | **10** |
| | 1,4-Dichlorobenzene | µg/L | **26** | **29** | **26** | **22** | **24** | **26** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | **2.1J** | **2J** | **2.2J** | **1.5J** | <0.41U | **3J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27UJ | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **34** | **39** | **41** | **34** | **45** | **72** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32UJ | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | **1.2** | **2** | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **0.89J** | **1J** | **4.1J** | **0.49J** | <0.46U | **0.47J** |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | **0.69J** | **0.64J** | <0.51U | <0.51U | **0.62J** | **0.83J** |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **89** | **110** | **110** | **79** | **97** | **140** |

**MW-18C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 12/27/2011 | 4/30/2012 | 11/20/2012 | 4/17/2013 | 10/22/2013 | 4/22/2014 | 10/21/2014 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **89.6J** | **95J** | **51J** | **72.9** | **51.8J** | - | **62.7** |
| | Ammonia | mg/L | **0.24** | **2.2** | **1.7** | **1.3** | **1.4J** | - | **1.6** |
| | Nitrate+Nitrite | mg/L | <0.05UJ | <0.05U | **0.061** | **0.071** | <0.02UJ | - | <0.02UJ |
| | Sulfate | mg/L | **39.4J** | **8.9J** | **13.1** | **12.6** | <13.8U | - | **7.8** |
| | Total Organic Carbon | mg/L | **0.9J** | **1.4** | <1U | <0.43U | **0.95J** | - | **1.5** |
| Metals | Arsenic | µg/L | <10U | **6J** | **7.4J** | **9.8J** | **13** | - | **9.3J** |
| | Iron | µg/L | **5100** | **27,600J** | **12,900** | **17,300** | **14,400** | - | **12,300** |
| | Manganese | µg/L | **7600** | **12,700** | **6900** | **8900** | **5800** | - | **5800** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **2.8** | **4.1** | **1.7J** | **2.2** | - | **0.74J** | - |
| | 1,2-Dichlorobenzene | µg/L | **4.2** | **7.9** | **2.3** | **2.9** | - | **0.47J** | - |
| | 1,3-Dichlorobenzene | µg/L | **2.3** | **5.4** | **2** | **2.2** | - | **0.51J** | - |
| | 1,4-Dichlorobenzene | µg/L | **18** | **33** | **10** | **11** | - | **2.2J** | - |
| | 1,4-Dioxane | µg/L | **10** | **30** | **7.9J** | <1U | - | **1.5J** | - |
| | 2,4,5-Trichlorophenol | µg/L | <9.5U | <9.4U | <9.5U | <0.46U | - | <0.45U | - |
| | 2,4,6-Trichlorophenol | µg/L | <2.9U | <2.9U | <3U | <0.58U | - | <0.57U | - |
| | 2,4-Dichlorophenol | µg/L | <2.7U | <2.6U | <2.7U | <0.48U | - | <0.47U | - |
| | 2,4-Dimethylphenol | µg/L | **0.87J** | <2.6U | <2.7U | <0.47U | - | <0.46U | - |
| | 2,4-Dinitrophenol | µg/L | <41U | <41U | <41U | <2.1U | - | <2.1U | - |
| | 2,4-Dinitrotoluene | µg/L | <5.5U | <5.5U | <5.5U | <0.42U | - | <0.41U | - |
| | 2,6-Dinitrotoluene | µg/L | <1.8U | <1.8U | <1.8U | <0.38U | - | <0.37U | - |
| | 2-Chloronaphthalene | µg/L | <1.8U | <1.8U | <1.8U | <0.44U | - | <0.43U | - |
| | 2-Chlorophenol | µg/L | <3.1U | <3.1U | <3.1U | <0.5U | - | <0.49U | - |
| | 2-Methylnaphthalene | µg/L | **1.6J** | **0.57J** | <9.5U | <0.57U | - | <0.56U | - |
| | 2-Methylphenol | µg/L | **0.87J** | <9.4U | <9.5U | <0.38U | - | <0.37U | - |
| | 2-Nitroaniline | µg/L | <9.5U | <9.4U | <9.5U | <0.4U | - | <0.39U | - |
| | 2-Nitrophenol | µg/L | <3.4U | <3.4U | <3.4U | <0.46U | - | <0.45U | - |
| | 3,3-Dichlorobenzidine | µg/L | <16U | <16U | <16U | <0.38U | - | <0.37U | - |
| | 3-Nitroaniline | µg/L | <9.5U | <9.4U | <9.5U | <0.46U | - | <0.45UJ | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <23U | <23U | <23U | <2.1U | - | <2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <1.7U | <1.7U | <1.7U | <0.43U | - | <0.42U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <2.8U | <2.8U | <2.9U | <0.43U | - | <0.42U | - |
| | 4-Chloroaniline | µg/L | <1.9U | <1.9U | <1.9U | <0.56U | - | <0.55UJ | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <4.1U | <4.1U | <4.1U | <0.33U | - | <0.32U | - |
| | 4-Methylphenol | µg/L | <9.5U | <9.4U | <9.5UJ | <0.34U | - | <0.33U | - |
| | 4-Nitroaniline | µg/L | <9.5U | <9.4U | <9.5U | <0.24U | - | <0.23U | - |
| | 4-Nitrophenol | µg/L | <2.8U | <2.8U | <2.9U | <1.4U | - | <1.4U | - |
| | Acenaphthene | µg/L | <1.7U | <1.7U | <1.7U | <0.39U | - | <0.38U | - |
| | Acenaphthylene | µg/L | <3.3U | <3.3U | <3.3U | <0.36U | - | <0.35U | - |
| | Anthracene | µg/L | <1.7U | <1.7U | <1.7U | <0.27U | - | <0.26U | - |
| | Benz(a)anthracene | µg/L | <7.4U | <7.4U | <7.4U | <0.34U | - | <0.33U | - |
| | Benzo(a)pyrene | µg/L | <2.5U | <2.5U | <2.5U | <0.45U | - | <0.44U | - |
| | Benzo(b)fluoranthene | µg/L | <9.5U | <9.4U | <9.5U | <0.32U | - | <0.32U | - |
| | Benzo(g,h,i)perylene | µg/L | <3.9U | <3.9U | <3.9U | <0.33U | - | <0.32UJ | - |
| | Benzo(k)fluoranthene | µg/L | <2.4U | <2.4U | <2.4U | <0.69U | - | <0.68U | - |
| | Benzoic acid | µg/L | <95U | <94U | <95U | <95U | - | <93U | - |
| | Benzyl alcohol | µg/L | <6.6U | <6.6U | <6.7U | <0.42U | - | <1.4U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <5U | <5U | <5U | <0.33U | - | <0.32U | - |
| | Bis(2-chloroethyl)ether | µg/L | <5.4U | <5.4U | <5.4U | <0.38U | - | <0.37U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <5.4U | <5.4U | <5.4U | <0.49U | - | <0.48U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <9.5U | <9.4U | <9.5U | <1.7U | - | <1.7U | - |
| | Butyl benzyl phthalate | µg/L | <9.5U | <9.4U | <9.5U | <0.4U | - | <0.39U | - |
| | Carbazole | µg/L | <9.5U | <9.4U | <9.5UJ | <0.28U | - | <0.28U | - |
| | Chrysene | µg/L | <2.4U | <2.4U | <2.4U | <0.31U | - | <0.31U | - |
| | Dibenz(a,h)anthracene | µg/L | <9.5U | <9.4U | <9.5U | <0.4U | - | <0.39U | - |
| | Dibenzofuran | µg/L | <9.5U | <9.4U | <9.5U | <0.48U | - | <0.47U | - |
| | Diethyl phthalate | µg/L | **0.63J** | **0.79J** | <9.5U | <0.21U | - | <0.2U | - |
| | Dimethyl phthalate | µg/L | <9.5U | <9.4U | <9.5U | <0.34U | - | <0.33U | - |
| | Di-n-butyl phthalate | µg/L | <2.1U | <9.4U | <9.5U | <0.29U | - | <0.29U | - |
| | Di-n-octyl phthalate | µg/L | <9.5U | <9.4U | <9.5U | <0.45U | - | <0.44U | - |
| | Fluoranthene | µg/L | <2.1U | <2.1U | <2.1U | <0.38U | - | <0.37U | - |

**MW-18C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 12/27/2011 | 4/30/2012 | 11/20/2012 | 4/17/2013 | 10/22/2013 | 4/22/2014 | 10/21/2014 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <1.8U | <1.8U | <1.8U | <0.34U | - | <0.33U | - |
| | Hexachlorobenzene | µg/L | <2.1U | <2.1U | <2.1U | <0.48U | - | <0.47U | - |
| | Hexachlorobutadiene | µg/L | <2.5U | <2.4U | <2.5U | <0.64U | - | <0.63U | - |
| | Hexachlorocyclopentadiene | µg/L | <9.5U | <9.4U | <9.5U | <0.56U | - | <0.55U | - |
| | Hexachloroethane | µg/L | <2.7U | <2.7U | <2.7U | <0.56U | - | <0.55U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4.5U | <4.5U | <4.6U | <0.45U | - | <0.44U | - |
| | Isophorone | µg/L | <2.1U | <2.1U | <2.1U | <0.41U | - | <0.4U | - |
| | Naphthalene | µg/L | **5.9** | **5.1** | <1.5U | <0.72U | - | <0.71U | - |
| | Nitrobenzene | µg/L | <1.9U | <1.9U | <1.9U | <0.27U | - | <0.27U | - |
| | N-nitrosodi-n-propylamine | µg/L | <4.7U | <4.7U | <4.8U | <0.51U | - | <0.5U | - |
| | N-Nitrosodiphenylamine | µg/L | <1.8U | <1.8U | <1.8U | <0.48U | - | <0.47U | - |
| | Pentachlorophenol | µg/L | <4.9U | <4.8U | <4.9U | <2.1U | - | <2U | - |
| | Phenanthrene | µg/L | <4.7U | <4.7U | <4.8U | <0.42U | - | <0.41U | - |
| | Phenol | µg/L | <2.4UJ | <2.4U | <2.4U | <0.37U | - | <0.36U | - |
| | Pyrene | µg/L | <1.8U | <1.8U | <1.8U | <0.32U | - | <0.32U | - |
| | Total SVOCS | µg/L | **48** | **87** | **24** | **19** | - | **5.5** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | **1.5J** | <5U | <5U | <0.82U | <0.82U | <0.82U | **1.4J** |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <5U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **31J** | **14J** | **7.5** | **11** | **5.4** | **1.3J** | **21** |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <5U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **1.2J** | **9.4J** | **3.1J** | **3.4J** | **2.2J** | <0.79U | **3.4J** |
| | 1,2-Dichloroethane | µg/L | <5U | **0.46J** | <5U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <5U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <5U | **6.4** | **2.9J** | **2.7J** | **1.9J** | <0.78U | **2.3J** |
| | 1,4-Dichlorobenzene | µg/L | **5.6** | **39** | **14** | **14** | **9.5** | **2.6J** | **15** |
| | 2-Butanone | µg/L | <5U | <5U | <5U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <5U | <5U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <5U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <10U | <10U | <10U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | **0.68J** | **6.5J** | **1.3J** | **1.8J** | **0.78J** | <0.41U | **1.9J** |
| | Dichlorobromomethane | µg/L | <5U | <5U | <5U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <5U | <5U | <5U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <5U | <5U | <5U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <5U | <5U | <5U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <5U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **2.7J** | **30J** | **7.5** | **11** | **6.3** | **0.94J** | **11** |
| | Chlorodibromomethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <5U | **15** | <5U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <5U | <5U | <5U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <5U | <5U | <5U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **3.3** | **1.1J** | <1U | <0.81U | <0.81U | <0.81U | **1.8** |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <5U | <5U | <5U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | **0.97J** | **21J** | **0.97J** | <0.74U | <0.74U | <0.74U | **4J** |
| | Styrene | µg/L | <5U | <5U | <5U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <5U | <5U | <5U | **0.53J** | <0.46U | <0.46U | **0.5J** |
| | Tetrachloroethene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | **2.5J** | **33J** | **1J** | **0.63J** | <0.51U | <0.51U | **21** |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | **5.3** | **1.7J** | <5U | <0.9U | <0.9U | <0.9U | **2.3J** |
| | Total Xylenes | µg/L | **3J** | **14** | <5U | <0.66U | <0.66U | <0.66U | **8.3** |
| | Total VOCS | µg/L | **58** | **200** | **39** | **46** | **27** | **4.9** | **94** |

**MW-18C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/21/2015 | 10/20/2015 | 5/16/2016 | 10/28/2016 | 4/24/2017 | 10/18/2017 | 5/8/2018 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **32.3** | **27.6** | **39.8** | **29.7J+** | **29.6J+** | **36** | **33.2J+** |
| | Ammonia | mg/L | **0.68** | **1.2** | **0.95** | **0.97** | **0.37** | **0.95** | **0.51** |
| | Nitrate+Nitrite | mg/L | **0.16** | <0.02U | **0.02J** | <0.02U | **0.12** | <0.02U | **0.09** |
| | Sulfate | mg/L | **16.9** | **15.5** | **20** | **13.5** | **10.7** | **30.8** | **28.5** |
| | Total Organic Carbon | mg/L | **0.79J** | **0.66J** | **1.3** | <1U | **1U** | **0.98UJ** | **1.3** |
| Metals | Arsenic | µg/L | <5.6U | **7.5J** | <5.6U | **7J** | <5.6U | **7J** | <5.6U |
| | Iron | µg/L | **4000** | **9100** | **11,600** | **10,300** | **2500** | **8800** | **5300** |
| | Manganese | µg/L | **3300J** | **4700** | **7000** | **4900** | **3100** | **6600** | **6200** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **0.61J** | - | **1.8** | - | **0.46J** | - | **0.9J** |
| | 1,2-Dichlorobenzene | µg/L | **0.39J** | - | **0.84J** | - | <0.4U | - | <0.4U |
| | 1,3-Dichlorobenzene | µg/L | <0.44U | - | **1.1J** | - | <0.48U | - | **0.51J** |
| | 1,4-Dichlorobenzene | µg/L | **1.8J** | - | **4J** | - | **0.91J** | - | **1.3J** |
| | 1,4-Dioxane | µg/L | <1U | - | **4.5J** | - | <1.1U | - | <1.1U |
| | 2,4,5-Trichlorophenol | µg/L | <0.44U | - | <0.44U | - | <0.48U | - | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | <0.56U | - | <0.56U | - | <0.61U | - | <0.61U |
| | 2,4-Dichlorophenol | µg/L | <0.47U | - | <0.47U | - | <0.51U | - | <0.51U |
| | 2,4-Dimethylphenol | µg/L | <0.46U | - | <0.46U | - | <0.5U | - | <0.5U |
| | 2,4-Dinitrophenol | µg/L | <2U | - | <2.1U | - | <2.2U | - | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | <0.41U | - | <0.41U | - | <0.45U | - | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | <0.37U | - | <0.37U | - | <0.4U | - | <0.4U |
| | 2-Chloronaphthalene | µg/L | <0.42U | - | <0.43U | - | <0.46U | - | <0.46U |
| | 2-Chlorophenol | µg/L | <0.49U | - | <0.49U | - | <0.53U | - | <0.53U |
| | 2-Methylnaphthalene | µg/L | <0.55U | - | <0.56U | - | <0.6U | - | <0.6U |
| | 2-Methylphenol | µg/L | <0.37U | - | <0.37U | - | <0.4U | - | <0.4U |
| | 2-Nitroaniline | µg/L | <0.38U | - | <0.39U | - | <0.42U | - | <0.42U |
| | 2-Nitrophenol | µg/L | <0.44U | - | <0.44U | - | <0.48U | - | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | <0.37U | - | <0.37U | - | <0.4U | - | <0.4U |
| | 3-Nitroaniline | µg/L | <0.44U | - | <0.44U | - | <0.48U | - | <0.48U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2U | - | <2U | - | <2.2U | - | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <0.41U | - | <0.42U | - | <0.45U | - | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | <0.41U | - | <0.42U | - | <0.45U | - | <0.45U |
| | 4-Chloroaniline | µg/L | <0.54U | - | <0.55U | - | <0.59U | - | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.32U | - | <0.32U | - | <0.35U | - | <0.35U |
| | 4-Methylphenol | µg/L | <0.33U | - | <0.33U | - | <0.36U | - | <0.36U |
| | 4-Nitroaniline | µg/L | <0.23UJ | - | <0.23U | - | <0.25U | - | <0.25U |
| | 4-Nitrophenol | µg/L | <1.4U | - | <1.4U | - | <1.5U | - | <1.5U |
| | Acenaphthene | µg/L | <0.38U | - | <0.38U | - | <0.41U | - | <0.41U |
| | Acenaphthylene | µg/L | <0.35U | - | <0.35U | - | <0.38U | - | <0.38U |
| | Anthracene | µg/L | <0.26U | - | <0.26U | - | <0.28U | - | <0.28U |
| | Benz(a)anthracene | µg/L | <0.33U | - | <0.33U | - | <0.36U | - | <0.36U |
| | Benzo(a)pyrene | µg/L | <0.43U | - | <0.43U | - | <0.47U | - | <0.47U |
| | Benzo(b)fluoranthene | µg/L | <0.31U | - | <0.31U | - | <0.34U | - | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | <0.32U | - | <0.32U | - | <0.35U | - | <0.35U |
| | Benzo(k)fluoranthene | µg/L | <0.67U | - | <0.68U | - | <0.73U | - | <0.73U |
| | Benzoic acid | µg/L | <92U | - | - | - | <100U | - | <100U |
| | Benzyl alcohol | µg/L | <6.4U | - | <0.41U | - | <0.44U | - | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | <0.32U | - | <0.32U | - | <0.35U | - | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | <0.37U | - | <0.37U | - | <0.4U | - | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.48U | - | <0.48U | - | <0.52U | - | <0.52U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.6U | - | <1.7U | - | <1.8U | - | <1.8U |
| | Butyl benzyl phthalate | µg/L | <9.2U | - | <0.39U | - | <0.42U | - | <0.42U |
| | Carbazole | µg/L | <0.27U | - | <0.28U | - | <0.3U | - | <0.3U |
| | Chrysene | µg/L | <0.3U | - | <0.31U | - | <0.33U | - | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | <0.38U | - | <0.39U | - | <0.42U | - | <0.42U |
| | Dibenzofuran | µg/L | <0.47U | - | <0.47U | - | <0.51U | - | <0.51U |
| | Diethyl phthalate | µg/L | <0.2U | - | <0.2U | - | <0.22U | - | <0.22U |
| | Dimethyl phthalate | µg/L | <0.33U | - | <0.33U | - | <0.36U | - | <0.36U |
| | Di-n-butyl phthalate | µg/L | <0.28U | - | <0.29U | - | <0.31U | - | <0.31U |
| | Di-n-octyl phthalate | µg/L | <0.43U | - | <0.43U | - | <0.47U | - | <0.47U |
| | Fluoranthene | µg/L | <0.37U | - | <0.37U | - | <0.4U | - | <0.4U |

**MW-18C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/21/2015 | 10/20/2015 | 5/16/2016 | 10/28/2016 | 4/24/2017 | 10/18/2017 | 5/8/2018 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <0.33U | - | <0.33U | - | <0.36U | - | <0.36U |
| | Hexachlorobenzene | µg/L | <0.47U | - | <0.47U | - | <0.51U | - | <0.51U |
| | Hexachlorobutadiene | µg/L | <0.62U | - | <0.63U | - | <0.68U | - | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | <0.54U | - | <0.55U | - | <0.59U | - | <0.59U |
| | Hexachloroethane | µg/L | <0.54U | - | <0.55U | - | <0.59U | - | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.43U | - | <0.43U | - | <0.47U | - | <0.47U |
| | Isophorone | µg/L | <0.39U | - | <0.4U | - | <0.43U | - | <0.43U |
| | Naphthalene | µg/L | <0.7U | - | <0.7U | - | <0.76U | - | <0.76U |
| | Nitrobenzene | µg/L | <0.27U | - | <0.27U | - | <0.29U | - | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | <0.49U | - | <0.5U | - | <0.54U | - | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | <0.47U | - | <0.47U | - | <0.51U | - | <0.51U |
| | Pentachlorophenol | µg/L | <2U | - | <2U | - | <2.2U | - | <2.2U |
| | Phenanthrene | µg/L | <0.4U | - | <0.41U | - | <0.44U | - | <0.44U |
| | Phenol | µg/L | <0.36U | - | <0.36U | - | <0.39U | - | <0.39U |
| | Pyrene | µg/L | <0.31U | - | <0.31U | - | <0.34U | - | <0.34U |
| | Total SVOCS | µg/L | **2.8** | - | **13** | - | **1.4** | - | **2.8** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82UJ | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **2J** | **2.2J** | **2.5J** | **0.89J** | **0.44J** | **1.4J** | **3.9J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | **0.94J** | **1.1J** | <0.79U | <0.79U | <0.79U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21UJ | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.78U | **0.97J** | **1.3J** | **0.92J** | <0.78U | <0.78UJ | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | **2.2J** | **4.2J** | **5.3** | **3.5J** | <0.84U | **2.4J** | **1.7J** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2UJ |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1UJ |
| | Acetone | µg/L | **5.1J** | <3U | **11** | <3U | <3U | **3J** | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | **1.2J** | **2.3J** | **1.1J** | <0.75U | **0.79J** | **0.76J** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32UJ | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | **1.5** | <0.81U | <0.81U | <0.81U | **6.4** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.46U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | **0.63J** | **0.69J** | <0.46U | **0.57J** | **0.74J** | **1.1J** |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | **1.9J** | <0.9U | <0.9U | <0.9U | **7** |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | **0.85J** |
| | Total VOCS | µg/L | **9.3** | **11** | **28** | **6.5** | **1.1** | **8.4** | **22** |

**MW-18C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/16/2018 | 4/22/2019 | 10/7/2019 | 4/30/2020 | 10/19/2020 | 4/27/2021 | 10/27/2021 | 4/19/2022 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **35.7J+** | **47.4** | **55.5** | 59.6 | **59.1** | **31.7** | **44.8** | **42.8** |
| | Ammonia | mg/L | **0.6** | **0.52** | **0.84** | 0.59 | **1.2** | **0.43** | **0.73** | **0.5** |
| | Nitrate+Nitrite | mg/L | **0.064** | **0.025J** | **0.027U** | **0.058** | **0.08** | **0.059** | **2.2** | **0.021J** |
| | Sulfate | mg/L | **25.5** | **35** | **32.2** | **26.8** | **24.8** | **13.5** | **16.9** | **13.5** |
| | Total Organic Carbon | mg/L | **1.3** | **2.7J** | **2.2** | **2** | **1.3** | **0.76J** | **1.6** | **0.83J** |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | **7.4J** | <5.6U | **6.5J** | **6.2J** | <5.6U | <5.6U |
| | Iron | µg/L | **6500** | **8,600** | **14,400** | **1,400** | **15,300** | **6,100** | **9,800** | **5,100** |
| | Manganese | µg/L | **7100** | **8,700** | **13,200** | **8,600** | **11,900** | **6,300** | **7,100** | **5,200** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | **2.9** | - | **4.9** | | **0.59J** | - | **1.2J** |
| | 1,2-Dichlorobenzene | µg/L | - | **1J** | - | **2.7J** | | <0.42UJ | - | **0.69J** |
| | 1,3-Dichlorobenzene | µg/L | - | **1.1J** | - | **3.5J** | | <0.5UJ | - | **1J** |
| | 1,4-Dichlorobenzene | µg/L | - | **4.7** | - | **13** | | **1.2J** | - | **2.5J** |
| | 1,4-Dioxane | µg/L | - | **6.7J** | - | **22** | | **2.5J** | - | **15** |
| | 2,4,5-Trichlorophenol | µg/L | - | <0.48U | - | <0.48U | | <0.5U | - | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | - | <0.61U | - | <0.61U | | <0.64U | - | <0.61U |
| | 2,4-Dichlorophenol | µg/L | - | <0.51U | - | <0.51U | | <0.53U | - | <0.51U |
| | 2,4-Dimethylphenol | µg/L | - | <0.5U | - | <0.5U | | <0.52U | - | <0.5U |
| | 2,4-Dinitrophenol | µg/L | - | <2.2U | - | <2.2U | | <2.3U | - | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | - | <0.45U | - | <0.45U | | <0.47UJ | - | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | - | <0.4U | - | <0.4U | | <0.42UJ | - | <0.4U |
| | 2-Chloronaphthalene | µg/L | - | <0.46U | - | <0.46U | | <0.48UJ | - | <0.46U |
| | 2-Chlorophenol | µg/L | - | <0.53U | - | <0.53U | | <0.55U | - | <0.53U |
| | 2-Methylnaphthalene | µg/L | - | <0.6U | - | <0.6U | | <0.63UJ | - | <0.6U |
| | 2-Methylphenol | µg/L | - | <0.4U | - | <0.4U | | <0.42U | - | <0.4U |
| | 2-Nitroaniline | µg/L | - | <0.42U | - | <0.42U | | <0.44UJ | - | <0.42U |
| | 2-Nitrophenol | µg/L | - | <0.48U | - | <0.48U | | <0.5U | - | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | - | <0.4U | - | <0.4U | | <0.42UJ | - | <0.4U |
| | 3-Nitroaniline | µg/L | - | <0.48U | - | <0.48U | | <0.5UJ | - | <0.48U |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | <2.2U | - | <2.2U | | <2.3U | - | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | - | <0.45U | - | <0.45U | | <0.47UJ | - | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | - | <0.45U | - | <0.45U | | <0.47U | - | <0.45U |
| | 4-Chloroaniline | µg/L | - | <0.59U | - | <0.59U | | <0.61UJ | - | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | - | <0.35U | - | <0.35U | | <0.36UJ | - | <0.35U |
| | 4-Methylphenol | µg/L | - | <0.36U | - | <0.36U | | <0.38U | - | <0.36U |
| | 4-Nitroaniline | µg/L | - | <0.25U | - | <0.25U | | <0.26UJ | - | <0.25U |
| | 4-Nitrophenol | µg/L | - | <1.5U | - | <1.5U | | <1.6U | - | <1.5U |
| | Acenaphthene | µg/L | - | <0.41U | - | <0.41U | | <0.43UJ | - | <0.41U |
| | Acenaphthylene | µg/L | - | <0.38U | - | <0.38U | | <0.4UJ | - | <0.38U |
| | Anthracene | µg/L | - | <0.28U | - | <0.28U | | <0.29UJ | - | <0.28U |
| | Benz(a)anthracene | µg/L | - | <0.36U | - | <0.36U | | <0.38UJ | - | <0.36U |
| | Benzo(a)pyrene | µg/L | - | <0.47U | - | <0.47U | | <0.49UJ | - | <0.47U |
| | Benzo(b)fluoranthene | µg/L | - | <0.34U | - | <0.34U | | <0.35UJ | - | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | - | <0.35U | - | <0.35U | | <0.36UJ | - | <0.35U |
| | Benzo(k)fluoranthene | µg/L | - | <0.73U | - | <0.73U | | <0.76UJ | - | <0.73U |
| | Benzoic acid | µg/L | - | <100U | - | <100U | | <100U | - | <100U |
| | Benzyl alcohol | µg/L | - | <0.44U | - | <0.44U | | <0.46UJ | - | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | - | <0.35U | - | <0.35U | | <0.36UJ | - | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | - | <0.4U | - | <0.4U | | <0.42UJ | - | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | - | <0.52U | - | <0.52U | | <0.54UJ | - | <0.52U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | <1.8U | - | <1.8U | | <1.9UJ | - | <1.8U |
| | Butyl benzyl phthalate | µg/L | - | <0.42U | - | <0.42U | | <10UJ | - | **0.74J** |
| | Carbazole | µg/L | - | <0.3U | - | <0.30U | | <0.31UJ | - | <0.3U |
| | Chrysene | µg/L | - | <0.33U | - | <0.33U | | <0.34UJ | - | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | - | <0.42U | - | <0.42U | | <0.44UJ | - | <0.42U |
| | Dibenzofuran | µg/L | - | <0.51U | - | <0.51U | | <0.53UJ | - | <0.51U |
| | Diethyl phthalate | µg/L | - | <0.22U | - | <0.22U | | <0.23UJ | - | <0.22U |
| | Dimethyl phthalate | µg/L | - | <0.36U | - | <0.36U | | <0.38UJ | - | <0.36U |
| | Di-n-butyl phthalate | µg/L | - | <0.31U | - | <0.31U | | <0.32UJ | - | <10U |
| | Di-n-octyl phthalate | µg/L | - | <0.47U | - | <0.47U | | <0.49UJ | - | <0.47U |
| | Fluoranthene | µg/L | - | <0.4U | - | <0.40U | | <0.42UJ | - | <0.4U |

**MW-18C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/16/2018 | 4/22/2019 | 10/7/2019 | 4/30/2020 | 10/19/2020 | 4/27/2021 | 10/27/2021 | 4/19/2022 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | - | <0.36U | - | <0.36U | | <0.38UJ | - | <0.36U |
| | Hexachlorobenzene | µg/L | - | <0.51U | - | <0.51U | | <0.53UJ | - | <0.51U |
| | Hexachlorobutadiene | µg/L | - | <0.68U | - | <0.68U | | <0.71UJ | - | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | - | <0.59U | - | <0.59U | | <0.61UJ | - | <0.59U |
| | Hexachloroethane | µg/L | - | <0.59U | - | <0.59U | | <0.61UJ | - | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | <0.47U | - | <0.47U | | <0.49UJ | - | <0.47U |
| | Isophorone | µg/L | - | <0.43U | - | <0.43U | | <0.45UJ | - | <0.43U |
| | Naphthalene | µg/L | - | <0.76U | - | <0.76U | | <0.79UJ | - | <0.76U |
| | Nitrobenzene | µg/L | - | <0.29U | - | <0.29U | | <0.3UJ | - | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | - | <0.54U | - | <0.54U | | <0.56UJ | - | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | - | <0.51U | - | <0.51U | | <0.53UJ | - | <0.51U |
| | Pentachlorophenol | µg/L | - | <2.2U | - | <2.2U | | <2.3UJ | - | <2.2UJ |
| | Phenanthrene | µg/L | - | <0.44U | - | <0.44U | | <0.46UJ | - | <0.44U |
| | Phenol | µg/L | - | <0.39U | - | <0.39U | | <0.41U | - | <0.39U |
| | Pyrene | µg/L | - | <0.34U | - | <0.34U | | <0.35UJ | - | <0.34U |
| | Total SVOCS | µg/L | - | **17** | - | **47** | | **4.3** | - | **22** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **2.1J** | **8.3** | **6.2** | **6.6** | **3.4J** | **0.97J** | **3.7J** | **2.2J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | **1.1J** | **2.4J** | **2.7J** | **2.3J** | <0.79U | **2.3J** | **0.87J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.78U | **1.3J** | **2.5J** | **3.6J** | **3.2J** | **0.94J** | **3.8J** | **1.5J** |
| | 1,4-Dichlorobenzene | µg/L | **1.6J** | **5.6** | **11** | **14** | **11** | **2.8J** | **9.9** | **3.2J** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3.0U | <3.0U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | **0.57J** | **0.72J** | **0.82J** | **0.53J** | <0.41U | **0.64J** | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | **2.7J** | **5.2** | **8.6** | **5.5** | **1.5J** | **11** | **3.4J** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **0.49J** | **0.75J** | **2J** | **0.84J** | **0.59J** | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.90U | <0.90U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | **1.1J** | <0.9U | <0.90U | <0.90U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **4.2** | **22** | **31** | **38** | **27** | **6.3** | **32** | **12** |

**MW-18C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/26/2022 | 4/25/2023 | 10/31/2023 | 5/1/2024 | 10/29/2024 | 4/21/2025 | 10/23/2025 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **44.7** | **42.8** | **44.7** | **28.6J-** | **62.8** | **30** | **31.8** |
| | Ammonia | mg/L | **0.94** | **0.5** | **0.94** | **0.21** | **0.59** | **0.58** | **0.78** |
| | Nitrate+Nitrite | mg/L | <0.02UJ | **0.021J** | <0.02UJ | **0.076** | <0.02U | **0.042J** | <0.02U |
| | Sulfate | mg/L | **17** | **13.5** | **17** | **9.9** | **12.9** | **12.4** | **9.7** |
| | Total Organic Carbon | mg/L | **1.5** | **0.83J** | **1.5** | **0.46J** | **0.95J** | **1.1** | <0.43U |
| Metals | Arsenic | µg/L | **11** | <5.6U | **11** | **6.4J** | **6.2J** | **9.2J** | <5.6U |
| | Iron | µg/L | **13,200** | **5,100** | **13,200** | **5,200** | **12,500** | **7,800** | **9,900** |
| | Manganese | µg/L | **10,100** | **5,200** | **10,100** | **4,000** | **10,700** | **7,500** | **9,000** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | **2.9** | - | <0.44U | - | <1.4U | - |
| | 1,2-Dichlorobenzene | µg/L | - | **2.9** | - | <0.4U | - | **0.85J** | - |
| | 1,3-Dichlorobenzene | µg/L | - | **3.7** | - | <0.48U | - | **1.2J** | - |
| | 1,4-Dichlorobenzene | µg/L | - | **9.6** | - | **0.54J** | - | **2.8J** | - |
| | 1,4-Dioxane | µg/L | - | **27** | - | <1.1U | - | **5.5J** | - |
| | 2,4,5-Trichlorophenol | µg/L | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | - | <0.61U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | - | <0.5U | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | - | <0.46U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | - | <0.53U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | - | <0.6U | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | - | <0.48U | - | <0.48U | - | <0.48UJ | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | - | <0.25U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | - | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | - | <0.41U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | - | <0.38U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | - | <0.28U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | - | <0.34U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | - | <0.73U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | - | <100U | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | - | <0.44U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | <0.52U | - | <0.52U | - | <0.52UJ | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | <1.8U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | Carbazole | µg/L | - | <0.3U | - | <0.3U | - | <0.3UJ | - |
| | Chrysene | µg/L | - | <0.33U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | - | <0.22U | - | <0.22U | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | - | **0.59J** | - | <0.31U | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Fluoranthene | µg/L | - | <0.4U | - | <0.4U | - | <0.4U | - |

**MW-18C**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C | MW-18C |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/26/2022 | 4/25/2023 | 10/31/2023 | 5/1/2024 | 10/29/2024 | 4/21/2025 | 10/23/2025 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | - | <0.68U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | Hexachloroethane | µg/L | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Isophorone | µg/L | - | <0.43U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | - | <0.76U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | - | <0.29U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | - | <0.54U | - | <0.54U | - | <0.54UJ | - |
| | N-Nitrosodiphenylamine | µg/L | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | Phenanthrene | µg/L | - | <0.44U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | - | <0.39U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | - | <0.34U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | - | **47** | - | **0.54** | - | **11** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **2.6J** | **8.9** | **9.1** | **1.2J** | **4.1J** | **1.7J** | **2.1J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **2.1J** | **6.2** | **7.7** | <0.79U | **3.3J** | **1.1J** | **2.2J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **2.9J** | **9.6** | **11** | <0.78U | **3.8J** | **1.5J** | **2.9J** |
| | 1,4-Dichlorobenzene | µg/L | **7.7** | **26** | **29** | <0.84U | **9.9** | **3.8J** | **6.8** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | **0.5J** | **2.1J** | **2J** | <0.41U | **0.64J** | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27UJ | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **9** | **34** | **39** | <0.75U | **20** | **4.9J** | **9.8** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32UJ | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | **1.2** | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | **0.89J** | **1J** | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | **0.69J** | **0.64J** | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **25** | **89** | **110** | **1.2** | **42** | **13** | **24** |

# MW-19
## HISTORICAL GROUNDWATER MONITORING DATA

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/17/2013 | 10/22/2013 | 4/22/2014 | 10/21/2014 | 4/21/2015 | 10/19/2015 | 5/17/2016 | 10/28/2016 | 4/25/2017 |
| | Parameters | Units | | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **136** | **89.5J** | **99.8** | **90.3** | **76.3** | **66.2J** | **55.6** | **51.6J+** | **47.8J+** |
| | Ammonia | mg/L | **0.1** | **0.14J** | **0.27** | **0.18** | **0.22** | **0.2** | **0.17** | **0.16** | **0.21** |
| | Nitrate+Nitrite | mg/L | **0.079** | **0.046J** | <0.02UJ | <0.02UJ | **0.041J** | **0.11** | **0.06** | **0.19** | **0.12** |
| | Sulfate | mg/L | **9.9** | **17.8J** | **18.9J** | **15.5** | **16.1** | **15.4J** | **14.7** | **14.6** | **16.2** |
| | Total Organic Carbon | mg/L | <0.43U | **0.71J** | **0.99J** | **1.1** | **1** | <1U | **0.82J** | <1U | **1U** |
| Metals | Arsenic | µg/L | **14** | **11** | **12** | **11** | **8.3J** | **6.2J** | <5.6U | **7.1J** | <5.6U |
| | Iron | µg/L | **6,000** | **4,300** | **5,300** | **3,600** | **3,900** | **2,400** | **2,400** | **2,200** | **2,100** |
| | Manganese | µg/L | **16,200** | **10,200** | **13,900** | **8,000** | **10,600J** | **6,900** | **7,800** | **6,500** | **7,700** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **4.7** | **2.1** | **2.9** | - | **1.8** | - | **1.3J** | - | **1.1J** |
| | 1,2-Dichlorobenzene | µg/L | **5.2** | **2.1** | **3.2** | - | **2.2** | - | **1.8** | - | **1.1J** |
| | 1,3-Dichlorobenzene | µg/L | **1.8** | **0.75J** | **1.2J** | - | **0.78J** | - | **0.52J** | - | <0.48U |
| | 1,4-Dichlorobenzene | µg/L | **16** | **6.2J** | **11** | - | **7.1** | - | **5** | - | **3.3J** |
| | 1,4-Dioxane | µg/L | **22** | **12** | **25** | - | **14** | - | **6.9J** | - | **3.9J** |
| | 2,4,5-Trichlorophenol | µg/L | <0.46U | <0.48U | <0.44U | - | <0.43U | - | <0.44U | - | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | <0.59U | <0.61U | <0.56U | - | <0.55U | - | <0.56U | - | <0.61U |
| | 2,4-Dichlorophenol | µg/L | <0.49U | <0.51U | <0.47U | - | <0.46U | - | <0.47U | - | <0.51U |
| | 2,4-Dimethylphenol | µg/L | <0.48U | <0.5U | <0.46U | - | <0.45U | - | <0.46U | - | <0.5U |
| | 2,4-Dinitrophenol | µg/L | <2.1U | <2.2U | <2U | - | <2U | - | <2.1U | - | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | <0.43U | <0.45U | <0.41U | - | <0.4U | - | <0.41U | - | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | <0.38U | <0.4U | <0.37U | - | <0.36U | - | <0.37U | - | <0.4U |
| | 2-Chloronaphthalene | µg/L | <0.44U | <0.46U | <0.42U | - | <0.41U | - | <0.43U | - | <0.46U |
| | 2-Chlorophenol | µg/L | <0.51U | <0.53U | <0.49U | - | <0.48U | - | <0.49U | - | <0.53U |
| | 2-Methylnaphthalene | µg/L | <0.58U | <0.6U | <0.55U | - | <0.54U | - | <0.56U | - | <0.6U |
| | 2-Methylphenol | µg/L | <0.38U | <0.4U | <0.37U | - | <0.36U | - | <0.37U | - | <0.4U |
| | 2-Nitroaniline | µg/L | <0.4U | <0.42U | <0.38U | - | <0.38U | - | <0.39U | - | <0.42U |
| | 2-Nitrophenol | µg/L | <0.46U | <0.48U | <0.44U | - | <0.43U | - | <0.44U | - | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | <0.38U | <0.4U | <0.37U | - | <0.36U | - | <0.37U | - | <0.4U |
| | 3-Nitroaniline | µg/L | <0.46U | <0.48U | <0.44UJ | - | <0.43U | - | <0.44U | - | <0.48U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.1U | <2.2U | <2U | - | <2U | - | <2U | - | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <0.43U | <0.45U | <0.41U | - | <0.41U | - | <0.42U | - | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | <0.43U | <0.45U | <0.41U | - | <0.41U | - | <0.42U | - | <0.45U |
| | 4-Chloroaniline | µg/L | <0.57U | <0.59U | <0.54UJ | - | <0.53U | - | <0.55U | - | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.34U | <0.35U | <0.32U | - | <0.32U | - | <0.32U | - | <0.35U |
| | 4-Methylphenol | µg/L | <0.35U | <0.36U | <0.33U | - | <0.32U | - | <0.33U | - | <0.36U |
| | 4-Nitroaniline | µg/L | <0.24U | <0.25U | <0.23U | - | <0.23UJ | - | <0.23U | - | <0.25U |
| | 4-Nitrophenol | µg/L | <1.5U | <1.5U | <1.4U | - | <1.4U | - | <1.4U | - | <1.5U |
| | Acenaphthene | µg/L | <0.39U | <0.41U | <0.38U | - | <0.37U | - | <0.38U | - | <0.41U |
| | Acenaphthylene | µg/L | <0.36U | <0.38U | <0.35U | - | <0.34U | - | <0.35U | - | <0.38U |
| | Anthracene | µg/L | <0.27U | <0.28U | <0.26U | - | <0.25U | - | <0.26U | - | <0.28U |
| | Benz(a)anthracene | µg/L | <0.35U | <0.36U | <0.33U | - | <0.32U | - | <0.33U | - | <0.36U |
| | Benzo(a)pyrene | µg/L | <0.45U | <0.47U | <0.43U | - | <0.42U | - | <0.44U | - | <0.47U |
| | Benzo(b)fluoranthene | µg/L | <0.33U | <0.34U | <0.31U | - | <0.31U | - | <0.31U | - | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | <0.34U | <0.35U | <0.32UJ | - | <0.32U | - | <0.32U | - | <0.35U |
| | Benzo(k)fluoranthene | µg/L | <0.7U | <0.73U | <0.67U | - | <0.66U | - | <0.68U | - | <0.73U |
| | Benzoic acid | µg/L | <96U | <100U | <92U | - | <90U | - | - | - | <100U |
| | Benzyl alcohol | µg/L | <0.42U | <7U | <1.7U | - | <0.4U | - | <0.41U | - | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | <0.34U | <0.35U | <0.32U | - | <0.32U | - | <0.32U | - | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | <0.38U | <0.4U | <0.37U | - | <0.36U | - | <0.37U | - | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.5U | <0.52U | <0.48U | - | <0.47U | - | <0.48U | - | <0.52U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.7U | <1.8U | <1.6U | - | <1.6U | - | <1.7U | - | <1.8U |
| | Butyl benzyl phthalate | µg/L | <0.4U | <0.42U | <0.38U | - | <9U | - | <0.39U | - | <0.42U |
| | Carbazole | µg/L | <0.29U | <0.3U | <0.27U | - | <0.27U | - | <0.28U | - | <0.3U |
| | Chrysene | µg/L | <0.32U | <0.33U | <0.3U | - | <0.3U | - | <0.31U | - | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | <0.4U | <0.42U | <0.38UJ | - | <0.38U | - | <0.39U | - | <0.42U |
| | Dibenzofuran | µg/L | <0.49U | <0.51U | <0.47U | - | <0.46U | - | <0.47U | - | <0.51U |
| | Diethyl phthalate | µg/L | <0.21U | <0.22U | <0.2U | - | <0.2U | - | <0.2U | - | <0.22U |
| | Dimethyl phthalate | µg/L | <0.35U | <0.36U | <0.33U | - | <0.32U | - | <0.33U | - | <0.36U |
| | Di-n-butyl phthalate | µg/L | <0.3U | <0.31U | <0.28U | - | <0.28U | - | <0.29U | - | <0.31U |
| | Di-n-octyl phthalate | µg/L | <0.45U | <0.47U | <0.43U | - | <0.42U | - | <0.44U | - | <0.47U |
| | Fluoranthene | µg/L | <0.38U | <0.4U | <0.37U | - | <0.36U | - | <0.37U | - | <0.4U |

**MW-19**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/17/2013 | 10/22/2013 | 4/22/2014 | 10/21/2014 | 4/21/2015 | 10/19/2015 | 5/17/2016 | 10/28/2016 | 4/25/2017 |
| | Parameters | Units | | | | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <0.35U | <0.36U | <0.33U | - | <0.32U | - | <0.33U | - | <0.36U |
| | Hexachlorobenzene | µg/L | <0.49U | <0.51U | <0.47U | - | <0.46U | - | <0.47U | - | <0.51U |
| | Hexachlorobutadiene | µg/L | <0.65U | <0.68U | <0.62U | - | <0.61U | - | <0.63U | - | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | <0.57U | <0.59U | <0.54U | - | <0.53U | - | <0.55U | - | <0.59U |
| | Hexachloroethane | µg/L | <0.57U | <0.59U | <0.54U | - | <0.53U | - | <0.55U | - | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.45U | <0.47U | <0.43UJ | - | <0.42U | - | <0.44U | - | <0.47U |
| | Isophorone | µg/L | <0.41U | <0.43U | <0.39U | - | <0.39U | - | <0.4U | - | <0.43U |
| | Naphthalene | µg/L | <0.73U | <0.76U | <0.7U | - | <0.68U | - | <0.7U | - | <0.76U |
| | Nitrobenzene | µg/L | <0.28U | <0.29U | <0.27U | - | <0.26U | - | <0.27U | - | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | <0.52U | <0.54U | <0.49U | - | <0.49U | - | <0.5U | - | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | <0.49U | <0.51U | <0.47U | - | <0.46U | - | <0.47U | - | <0.51U |
| | Pentachlorophenol | µg/L | <2.1U | <2.2U | <2U | - | <2U | - | <2U | - | <2.2U |
| | Phenanthrene | µg/L | <0.42U | <0.44U | <0.4U | - | <0.4U | - | <0.41U | - | <0.44U |
| | Phenol | µg/L | <0.37U | <0.39U | <0.36U | - | <0.35U | - | <0.36U | - | <0.39U |
| | Pyrene | µg/L | <0.33U | <0.34U | <0.31U | - | <0.31U | - | <0.31U | - | <0.34U |
| | Total SVOCS | µg/L | **50** | **24** | **44** | **-** | **26** | **-** | **16** | **-** | **9.4** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | **5.3** | **1.3J** | **5.1** | **9.8** | **2.5J** | **1.7J** | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **33** | **7.3** | **24** | **24** | **8.8** | **6** | **1.3J** | **1.2J** | **2J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | **0.35J** | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **6.5** | **3.2J** | **4.1J** | **2.5J** | **2.6J** | **2.1J** | **2J** | **1.4J** | **1.3J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | **0.34J** | <0.21U | <0.21U | <0.21UJ | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **2.4J** | **1.1J** | **1.5J** | **0.81J** | **1J** | <0.78U | <0.78U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | **20** | **9.7** | **13** | **7.3** | **8.9** | **6.9** | **5.9** | **4.1J** | **4.4J** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | **42** | <3U | <3U | <3U | <3U | <3U | **5.3J** | <3U | <3U |
| | Benzene | µg/L | **1.8J** | **0.58J** | **1.5J** | **1.8J** | **0.7J** | **0.55J** | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **20** | **9.3** | **18** | **19** | **9.5** | **8.2** | **4.2J** | **2.4J** | **2.1J** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | **8.2** | **0.88J** | **3.6J** | **2.7J** | **1.8J** | <0.32U | <0.32U | <0.32U | <0.32UJ |
| | Chloroform | µg/L | <0.34U | <0.34U | **0.44J** | **0.86J** | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **56** | **19** | **59** | **90** | **26** | **23** | **7.6** | **6.6** | **8.3** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | **0.83J** | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **2.2J** | **1.6J** | **2.2J** | **2.7J** | **1.9J** | **1.7J** | **1.2J** | **1.4J** | **1.1J** |
| | Tetrachloroethene | µg/L | **0.54J** | <0.36U | **0.49J** | **0.69J** | <0.36U | **0.38J** | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | **19** | **5.4** | **20** | **31J** | **6.8** | **5.5** | **1.7J** | **1.3J** | **2.1J** |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | **0.72J** | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **220** | **60** | **160** | **200** | **71** | **57** | **30** | **19** | **22** |

**MW-19**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/17/2017 | 5/7/2018 | 10/15/2018 | 4/22/2019 | 10/8/2019 | 4/29/2020 | 10/19/2020 | 4/26/2021 | 10/25/2021 |
| | Parameters | Units | | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **48.3** | **36.6** | **38.2J+** | **52.3** | **68.9** | **81.5** | **59.8** | **54.3** | **47.1** |
| | Ammonia | mg/L | **0.17** | **0.25J+** | **0.19** | **0.25** | **0.25** | **0.25** | **0.2** | **0.17** | **0.22** |
| | Nitrate+Nitrite | mg/L | **0.18** | <0.02U | **0.18** | **0.02J** | **0.055** | **0.048J** | **0.11** | **0.12** | **0.05** |
| | Sulfate | mg/L | **21** | **13.9** | **17.1** | **30.5** | **33.8** | **36.1** | **32.5** | **26.8** | **21.6** |
| | Total Organic Carbon | mg/L | **0.81U** | <0.47U | <0.97U | **1.5J** | **3** | **2.2** | **1.2** | **0.98J** | **1.1** |
| Metals | Arsenic | µg/L | **6.7J** | **7.1J** | **7.4J** | **5.7J** | **9.5J** | **7.6J** | **7.6J** | <5.6U | **7.5J** |
| | Iron | µg/L | **2,000** | **2,400** | **2,900** | **5,300** | **5,800** | **4,900** | **4,000** | **3,400** | **4,100** |
| | Manganese | µg/L | **4,900** | **7,700** | **7,400** | **13,300** | **17,800** | **17,600** | **13,500** | **14,600** | **13,300** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | **1.2J** | - | **1.4J** | - | **3.8** | - | **2.5** | - |
| | 1,2-Dichlorobenzene | µg/L | - | **0.68J** | - | **0.81J** | - | **1.9J** | - | **1.3J** | - |
| | 1,3-Dichlorobenzene | µg/L | - | <0.48U | - | **0.66J** | - | **1.5J** | - | **1.1J** | - |
| | 1,4-Dichlorobenzene | µg/L | - | **2.3J** | - | **2.6J** | - | **7.2** | - | **5.1** | - |
| | 1,4-Dioxane | µg/L | - | **1.3J** | - | **10** | - | **41** | - | **18** | - |
| | 2,4,5-Trichlorophenol | µg/L | - | <0.48U | - | <0.48U | - | <0.52U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | - | <0.61U | - | <0.61U | - | <0.66U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | - | <0.51U | - | <0.51U | - | <0.55U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | - | <0.5U | - | <0.5U | - | <0.54U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | - | <2.2U | - | <2.2U | - | <2.4U | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | - | <0.45U | - | <0.45U | - | <0.49U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | - | <0.4U | - | <0.4U | - | <0.43U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | - | <0.46U | - | <0.46U | - | <0.5U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | - | <0.53U | - | <0.53U | - | <0.58U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | - | <0.6U | - | <0.6U | - | <0.65U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | - | <0.4U | - | <0.4U | - | <0.43U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | - | <0.42U | - | <0.42U | - | <0.46U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | - | <0.48U | - | <0.48U | - | <0.52U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | - | <0.4U | - | <0.4U | - | <0.43U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | - | <0.48U | - | <0.48U | - | <0.52U | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | <2.2U | - | <2.2U | - | <2.4U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | <0.45U | - | <0.45U | - | <0.49U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | <0.45U | - | <0.45U | - | <0.49U | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | - | <0.59U | - | <0.59U | - | <0.64U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | <0.35U | - | <0.35U | - | <0.38U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | - | <0.36U | - | <0.36U | - | <0.39U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | - | <0.25U | - | <0.25U | - | <0.27U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | - | <1.5U | - | <1.5U | - | <1.7U | - | <1.5U | - |
| | Acenaphthene | µg/L | - | <0.41U | - | <0.41U | - | <0.45U | - | <0.41U | - |
| | Acenaphthylene | µg/L | - | <0.38U | - | <0.38U | - | <0.41U | - | <0.38U | - |
| | Anthracene | µg/L | - | <0.28U | - | <0.28U | - | <0.3U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | - | <0.36U | - | <0.36U | - | <0.39U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | - | <0.47U | - | <0.47U | - | <0.51U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | - | <0.34U | - | <0.34U | - | <0.37U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | - | <0.35U | - | <0.35U | - | <0.38U | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | - | <0.73U | - | <0.73U | - | <0.79U | - | <0.73U | - |
| | Benzoic acid | µg/L | - | <100U | - | <100U | - | <110U | - | <100U | - |
| | Benzyl alcohol | µg/L | - | <0.44U | - | <0.44U | - | <0.48U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | <0.35U | - | <0.35U | - | <0.38U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | - | <0.4U | - | <0.4U | - | <0.43U | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | <0.52U | - | <0.52U | - | <0.57U | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | <1.8U | - | <1.8U | - | <2.0U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | - | <0.49U | - | <0.42U | - | <0.46U | - | <0.42U | - |
| | Carbazole | µg/L | - | <0.3U | - | <0.3U | - | <0.33U | - | <0.3U | - |
| | Chrysene | µg/L | - | <0.33U | - | <0.33U | - | <0.36U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | - | <0.42U | - | <0.42U | - | <0.46U | - | <0.42U | - |
| | Dibenzofuran | µg/L | - | <0.51U | - | <0.51U | - | <0.55U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | - | <0.22U | - | <0.22U | - | <0.24U | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | - | <0.36U | - | <0.36U | - | <0.39U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | - | <0.31U | - | <0.31U | - | <0.34U | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | - | <0.47U | - | <0.47U | - | <0.51U | - | <0.47U | - |
| | Fluoranthene | µg/L | - | <0.4U | - | <0.4U | - | <0.43U | - | <0.4U | - |

**MW-19**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/17/2017 | 5/7/2018 | 10/15/2018 | 4/22/2019 | 10/8/2019 | 4/29/2020 | 10/19/2020 | 4/26/2021 | 10/25/2021 |
| | Parameters | Units | | | | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | - | <0.36U | - | <0.36U | - | <0.39U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | - | <0.51U | - | <0.51U | - | <0.55U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | - | <0.68U | - | <0.68U | - | <0.74U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | - | <0.59U | - | <0.59U | - | <0.64U | - | <0.59U | - |
| | Hexachloroethane | µg/L | - | <0.59U | - | <0.59U | - | <0.64U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | <0.47U | - | <0.47U | - | <0.51U | - | <0.47U | - |
| | Isophorone | µg/L | - | <0.43U | - | <0.43U | - | <0.47U | - | <0.43U | - |
| | Naphthalene | µg/L | - | <0.76U | - | <0.76U | - | <0.83U | - | <0.76U | - |
| | Nitrobenzene | µg/L | - | <0.29U | - | <0.29U | - | <0.32U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | - | <0.54U | - | <0.54U | - | <0.59U | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | - | <0.51U | - | <0.51U | - | <0.55U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | - | <2.2U | - | <2.2U | - | <2.4U | - | <2.2U | - |
| | Phenanthrene | µg/L | - | <0.44U | - | <0.44U | - | <0.48U | - | <0.44U | - |
| | Phenol | µg/L | - | <0.39U | - | <0.39U | - | <0.42U | - | <0.39U | - |
| | Pyrene | µg/L | - | <0.34U | - | <0.34U | - | <0.37U | - | <0.34U | - |
| | Total SVOCS | µg/L | - | **5.5** | - | **16** | - | **56** | - | **28** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **1.6J** | **0.43J** | **1.6J** | **2.9J** | **7.1** | **5.2** | **3.3J** | **2J** | **3.1J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **0.94J** | <0.79U | <0.79U | **0.87J** | **2J** | **1.8J** | **1.7J** | **1.6J** | **1.5J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.78U | <0.78U | <0.78U | <0.78U | **1.7J** | **1.4J** | **1.4J** | **1.3J** | **1.6J** |
| | 1,4-Dichlorobenzene | µg/L | **3.1J** | **2.7J** | **1.9J** | **3.3J** | **8** | **7.3** | **6.6** | **6.3** | **6.1** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | **3.6J** | <3U | <3U | <3U | <3U | <3.0U | <3.0U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | **0.49J** | <0.41U | **0.41J** | <0.41U | **0.47J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **1.4J** | **0.81J** | **0.84J** | **1.6J** | **4.4J** | **3.8J** | **4.0J** | **3J** | **6.2** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | **0.57J** | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | **1.8** | **4.3** | **2.1** | **4.2** | **8.0** | **4.7** | **6.1** | **3.5** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **1.4J** | **0.67J** | **1.1J** | **0.77J** | **1.7J** | **2.1J** | **1.3J** | **1.6J** | **0.94J** |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | **0.5J** | **0.59J** | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.90U | <0.90U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | **2.4J** | **1.6J** | **2.8J** | **3.7J** | **1.6J** | **1.3J** | **1.3J** |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **13** | **6.5** | **13** | **14** | **33** | **35** | **26** | **24** | **25** |

**MW-19**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/19/2022 | 10/25/2022 | 4/24/2023 | 10/30/2023 | 4/30/2024 | 10/28/2024 | 4/22/2025 | 10/23/2025 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **60.7** | **74.8** | **63.9** | **53.3** | **66.6J-** | **81.4** | **68.9** | **57.1** |
| | Ammonia | mg/L | **0.2** | **0.19** | **0.19** | **0.21** | **0.24** | **0.18** | **0.25** | **0.29** |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.02U | **0.045J** | **0.066J+** | **0.022J** | <0.02U | **0.023J** | **0.023J** |
| | Sulfate | mg/L | **22** | **25.7** | **24.2** | **17.4** | **14.4** | **18.6** | **20.6** | **18.7** |
| | Total Organic Carbon | mg/L | **1.1** | **1.8** | **1.4** | <0.43U | **0.97J** | **0.8J** | **1.6** | <0.43U |
| Metals | Arsenic | µg/L | <5.6U | **7.3J** | <5.6U | **9.1J** | **7.7J** | <5.6U | **9.2J** | <5.6U |
| | Iron | µg/L | **4,700** | **4,700** | **3,600** | **3,900** | **4,700** | **4,100** | **4,500** | **3,100** |
| | Manganese | µg/L | **15,100** | **15,400** | **14,200** | **15,300** | **16,500** | **13,500** | **17,600** | **11,400** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **2.6** | - | **2.1** | - | **2.4** | - | **2.6J+** | - |
| | 1,2-Dichlorobenzene | µg/L | **1.5J** | - | **1.1J** | - | **1.9** | - | **2.1** | - |
| | 1,3-Dichlorobenzene | µg/L | **1.7J** | - | **1.1J** | - | **2.2** | - | **2.1** | - |
| | 1,4-Dichlorobenzene | µg/L | **5.5** | - | **4.1J** | - | **6.1** | - | **6.3** | - |
| | 1,4-Dioxane | µg/L | **24** | - | **26** | - | **23** | - | **19** | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | <0.61U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | <0.5U | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | <2.2U | - | <2.2UJ | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | <0.46U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | <0.53U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | <0.6U | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | <0.48U | - | <0.48U | - | <0.48UJ | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | <0.25U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | <0.41U | - | <0.41U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | <0.38U | - | <0.38U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | <0.28U | - | <0.28U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | <0.35U | - | <0.35UJ | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | <0.73U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | <100U | - | <100U | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | <0.44U | - | <0.44U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | <0.4U | - | <0.4UJ | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | <0.52U | - | <0.52U | - | <0.52UJ | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | <1.8U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <0.42U | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | Carbazole | µg/L | <0.3U | - | <0.3U | - | <0.3U | - | <0.3UJ | - |
| | Chrysene | µg/L | <0.33U | - | <0.33U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | **0.42J** | - | <0.22U | - | <0.22U | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | <10U | - | **0.31J** | - | <0.31U | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Fluoranthene | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U | - |

**MW-19**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/19/2022 | 10/25/2022 | 4/24/2023 | 10/30/2023 | 4/30/2024 | 10/28/2024 | 4/22/2025 | 10/23/2025 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | <0.68U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | <0.59U | - | <0.59UJ | - | <0.59U | - |
| | Hexachloroethane | µg/L | <0.59U | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47UJ | - | <0.47U | - |
| | Isophorone | µg/L | <0.43U | - | <0.43U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | <0.76U | - | <0.76U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.29U | - | <0.29U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | <0.54U | - | <0.54U | - | <0.54UJ | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <2.2UJ | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | Phenanthrene | µg/L | <0.44U | - | <0.44U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | <0.39U | - | <0.39U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | **36** | - | **35** | - | **36** | - | **33** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **3.1J** | **4.3J** | **1.5J** | **1.9J** | **3.1J** | **4.1J** | **3.2J** | **1.5J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29UJ | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **1.6J** | **2.2J** | **1.6J** | **1.7J** | **2.4J** | **3J** | **2.5J** | **1.3J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **2J** | **2.4J** | **1.4J** | **1.8J** | **3J** | **3J** | **2.6J** | **1.4J** |
| | 1,4-Dichlorobenzene | µg/L | **6.7** | **7.7** | **5.3** | **5.9** | **8.7** | **8.8** | **8** | **4.3J** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | **0.49J** | **0.82J** | <0.41U | <0.41U | **0.65J** | **0.65J** | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27UJ | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **7.1** | **12** | **5.5** | **8.8** | **14** | **21** | **15** | **6.8** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **3.8** | **6.2** | **3.7** | **2** | **2.3** | **2.2** | **2.7** | **3** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **1J** | **1.4J** | **1.2J** | **0.73J** | **0.58J** | **1.3J** | **0.67J** | **0.52J** |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | **0.36J** | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | **2.6J** | <0.9U | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **26** | **40** | **21** | **23** | **35** | **45** | **35** | **19** |

**MW-20A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 12/27/2011 | 4/30/2012 | 11/20/2012 | 4/17/2013 | 10/21/2013 | 4/21/2014 | 10/22/2014 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **222J** | **102J** | **88.5J** | **151** | **136J** | - | **131** |
| | Ammonia | mg/L | **0.13** | **0.071** | **0.35** | **0.088** | **0.1J** | - | **0.15** |
| | Nitrate+Nitrite | mg/L | <0.05UJ | <0.05U | <0.05U | <0.02U | <0.05U | - | <0.02UJ |
| | Sulfate | mg/L | **33.1J** | **24.3J** | **12.1** | **4.8J** | <5U | - | **2.2J** |
| | Total Organic Carbon | mg/L | **30** | **3.9** | **3.3** | **2.2** | <1.7U | - | **2.3J** |
| Metals | Arsenic | µg/L | <10U | <10U | **6.6J** | **8.3J** | **7.3J** | - | **8.5J** |
| | Iron | µg/L | **690** | **450J** | **310** | **840** | **280** | - | **270** |
| | Manganese | µg/L | **2,400** | **1,400** | **730** | **670** | **360** | - | **470** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **1.2J** | <1.8U | **1.4J** | **1.5J** | - | **0.89J** | - |
| | 1,2-Dichlorobenzene | µg/L | **2.1** | **2.6** | **2.9** | **3.3** | - | **2.1** | - |
| | 1,3-Dichlorobenzene | µg/L | **7.6J** | **0.9J** | **9.8** | **1.2J** | - | **0.88J** | - |
| | 1,4-Dichlorobenzene | µg/L | **7.5J** | **8.8** | **9.6** | **11** | - | **7.3** | - |
| | 1,4-Dioxane | µg/L | **20J** | **17** | **17** | **15** | - | **18** | - |
| | 2,4,5-Trichlorophenol | µg/L | <9.4U | <9.4U | <9.4U | <0.45U | - | <0.45U | - |
| | 2,4,6-Trichlorophenol | µg/L | <2.9U | <2.9U | <2.9U | <0.58U | - | <0.57U | - |
| | 2,4-Dichlorophenol | µg/L | <2.6U | <2.6U | <2.6U | <0.48U | - | <0.48U | - |
| | 2,4-Dimethylphenol | µg/L | <2.6U | <2.6U | <2.6U | <0.47U | - | <0.47U | - |
| | 2,4-Dinitrophenol | µg/L | <41U | <41U | <41U | <2.1U | - | <2.1U | - |
| | 2,4-Dinitrotoluene | µg/L | <5.5U | <5.5U | <5.5U | <0.42U | - | <0.42U | - |
| | 2,6-Dinitrotoluene | µg/L | <1.8U | <1.8U | <1.8U | <0.38U | - | <0.38U | - |
| | 2-Chloronaphthalene | µg/L | <1.8U | <1.8U | <1.8U | <0.44U | - | <0.43U | - |
| | 2-Chlorophenol | µg/L | <3.1U | <3.1U | <3.1U | <0.5U | - | <0.5U | - |
| | 2-Methylnaphthalene | µg/L | <9.4U | <9.4U | <9.4U | <0.57U | - | <0.56U | - |
| | 2-Methylphenol | µg/L | <9.4U | <9.4U | <9.4U | <0.38U | - | <0.38U | - |
| | 2-Nitroaniline | µg/L | <9.4U | <9.4U | <9.4U | <0.4U | - | <0.39U | - |
| | 2-Nitrophenol | µg/L | <3.4U | <3.4U | <3.4U | <0.45U | - | <0.45U | - |
| | 3,3-Dichlorobenzidine | µg/L | <16U | <16U | <16U | <0.38U | - | <0.38U | - |
| | 3-Nitroaniline | µg/L | <9.4U | <9.4U | <9.4U | <0.45U | - | <0.45UJ | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <23U | <23U | <23U | <2.1U | - | <2.1U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <1.7U | <1.7U | <1.7U | <0.43U | - | <0.42U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <2.8U | <2.8U | <2.8U | <0.43U | - | <0.42U | - |
| | 4-Chloroaniline | µg/L | <1.9U | <1.9U | <1.9U | <0.56U | - | <0.55UJ | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <4.1U | <4.1U | <4.1U | <0.33U | - | <0.33U | - |
| | 4-Methylphenol | µg/L | <9.4U | <9.4U | **2.7J** | <0.34U | - | <0.34U | - |
| | 4-Nitroaniline | µg/L | <9.4U | <9.4U | <9.4U | <0.24U | - | <0.23U | - |
| | 4-Nitrophenol | µg/L | <2.8U | <2.8U | <2.8U | <1.4U | - | <1.4U | - |
| | Acenaphthene | µg/L | <1.7U | <1.7U | <1.7U | <0.39U | - | <0.38U | - |
| | Acenaphthylene | µg/L | <3.3U | <3.3U | <3.3U | <0.36U | - | <0.36U | - |
| | Anthracene | µg/L | <1.7U | <1.7U | <1.7U | <0.27U | - | <0.26U | - |
| | Benz(a)anthracene | µg/L | <7.4U | <7.4U | <7.4U | <0.34U | - | <0.34U | - |
| | Benzo(a)pyrene | µg/L | <2.5U | <2.5U | <2.5U | <0.45U | - | <0.44U | - |
| | Benzo(b)fluoranthene | µg/L | <9.4U | <9.4U | <9.4U | <0.32U | - | <0.32U | - |
| | Benzo(g,h,i)perylene | µg/L | <3.9U | <3.9U | <3.9U | <0.33U | - | <0.33UJ | - |
| | Benzo(k)fluoranthene | µg/L | <2.4U | <2.4U | <2.4U | <0.69U | - | <0.69U | - |
| | Benzoic acid | µg/L | <94U | <94U | <94U | <95U | - | <94U | - |
| | Benzyl alcohol | µg/L | <6.6U | <6.6U | <6.6U | <0.42U | - | <2.3U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <5U | <5U | <5U | <0.33U | - | <0.33U | - |
| | Bis(2-chloroethyl)ether | µg/L | <5.4U | <5.4U | <5.4U | <0.38U | - | <0.38U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <5.4U | <5.4U | <5.4U | <0.49U | - | <0.49U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <9.4U | <9.4U | <9.4U | <1.7U | - | <1.7U | - |
| | Butyl benzyl phthalate | µg/L | <9.4U | <9.4U | <9.4U | <0.4U | - | **0.53J** | - |
| | Carbazole | µg/L | <9.4U | <9.4U | <9.4UJ | <0.28U | - | <0.28U | - |
| | Chrysene | µg/L | <2.4U | <2.4U | <2.4U | <0.31U | - | <0.31U | - |
| | Dibenz(a,h)anthracene | µg/L | <9.4U | <9.4U | <9.4U | <0.4U | - | <0.39U | - |
| | Dibenzofuran | µg/L | <9.4U | <9.4U | <9.4U | <0.48U | - | <0.48U | - |
| | Diethyl phthalate | µg/L | <9.4U | <9.4U | **0.32J** | <0.21U | - | <0.21U | - |
| | Dimethyl phthalate | µg/L | <9.4U | <9.4U | <9.4U | <0.34U | - | <0.34U | - |
| | Di-n-butyl phthalate | µg/L | <2.2U | <9.4U | <9.4U | <0.29U | - | <0.29U | - |
| | Di-n-octyl phthalate | µg/L | <9.4U | <9.4U | <9.4U | <0.45U | - | <0.44U | - |
| | Fluoranthene | µg/L | <2.1U | <2.1U | <2.1U | <0.38U | - | <0.38U | - |
| | Fluorene | µg/L | <1.8U | <1.8U | <1.8U | <0.34U | - | <0.34U | - |

**MW-20A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 12/27/2011 | 4/30/2012 | 11/20/2012 | 4/17/2013 | 10/21/2013 | 4/21/2014 | 10/22/2014 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Hexachlorobenzene | µg/L | <2.1U | <2.1U | <2.1U | <0.48U | - | <0.48U | - |
| | Hexachlorobutadiene | µg/L | <2.4U | <2.4U | <2.4U | <0.64U | - | <0.64U | - |
| | Hexachlorocyclopentadiene | µg/L | <9.4U | <9.4U | <9.4U | <0.56U | - | <0.55U | - |
| | Hexachloroethane | µg/L | <2.7U | <2.7U | <2.7U | <0.56U | - | <0.55U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4.5U | <4.5U | <4.5U | <0.45U | - | <0.44U | - |
| | Isophorone | µg/L | <2.1U | <2.1U | <2.1U | <0.41U | - | <0.4U | - |
| | Naphthalene | µg/L | <1.5U | <1.5U | **1.5** | <0.72U | - | <0.71U | - |
| | Nitrobenzene | µg/L | <1.9U | <1.9U | <1.9U | <0.27U | - | <0.27U | - |
| | N-nitrosodi-n-propylamine | µg/L | <4.7U | <4.7U | <4.7U | <0.51U | - | <0.51U | - |
| | N-Nitrosodiphenylamine | µg/L | <1.8U | <1.8U | <1.8U | <0.48U | - | <0.48U | - |
| | Pentachlorophenol | µg/L | <4.8U | <4.8U | <4.8U | <2.1U | - | <2.1U | - |
| | Phenanthrene | µg/L | <4.7U | <4.7U | <4.7U | <0.42U | - | <0.41U | - |
| | Phenol | µg/L | <2.4UJ | <2.4U | **1.3J** | <0.37U | - | <0.37U | - |
| | Pyrene | µg/L | <1.8U | <1.8U | <1.8U | <0.32U | - | <0.32U | - |
| | Total SVOCS | µg/L | **39** | **30** | **47** | **32** | - | **30** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | <5U | <5U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <5U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **24J** | **25J** | **24** | **27** | **26** | **22** | **26** |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <5U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **3.3J** | **3.8J** | **4.1J** | **4.3J** | **4J** | **3.9J** | **4.6J** |
| | 1,2-Dichloroethane | µg/L | <5U | **0.55J** | **0.51J** | **0.5J** | <0.21U | **0.35J** | **0.41J** |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <5U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **1.2J** | **1.4J** | **1.6J** | **1.8J** | **1.6J** | **1.7J** | **2.2J** |
| | 1,4-Dichlorobenzene | µg/L | **10** | **12** | **13** | **15** | **14** | **14** | **17** |
| | 2-Butanone | µg/L | <5U | <5U | <5U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <5U | <5U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <5U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | **3.8J** | <10U | <10U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | **0.65J** | **0.71J** | **0.73J** | **0.68J** | **0.64J** | **0.62J** | **0.75J** |
| | Dichlorobromomethane | µg/L | <5U | <5U | <5U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <5U | <5U | <5U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <5U | <5U | <5U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <5U | <5U | <5U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <5U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **6.2** | **7J** | **7.1** | **7.5** | **7.3** | **6** | **7.1** |
| | Chlorodibromomethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | **9.3** | **17** | **21** | **15** | **6.4** | **3.3J** | **3J** |
| | Chloroform | µg/L | <5U | <5U | <5U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <5U | <5U | <5U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **3.3** | **3.6J** | **3.7** | **3.9** | **3.8** | **3.3** | **3.9** |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | **0.65J** | **0.7J** | **0.53J** | **0.51J** | <0.44U | <0.44U | **0.49J** |
| | Ethylbenzene | µg/L | <5U | <5U | <5U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <5U | <5U | <5U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **2.4J** | **2.6J** | **2.4J** | **2.1J** | **1.8J** | **1.7J** | **1.8J** |
| | Tetrachloroethene | µg/L | **1.8J** | **1.9J** | **1.4J** | **0.65J** | **0.46J** | **0.47J** | **0.41J** |
| | Toluene | µg/L | <5U | <5U | <5UJ | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <5U | <5U | <5U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <5U | <5U | <5U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **67** | **77** | **81** | **79** | **66** | **58** | **68** |

**MW-20A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/22/2015 | 10/19/2015 | 5/16/2016 | 10/26/2016 | 4/24/2017 | 10/17/2017 | 5/7/2018 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **108** | **111J** | **114** | **115** | **109** | **97.7** | **101** |
| | Ammonia | mg/L | **0.037J** | **0.11** | **0.052** | **0.076** | **0.087** | **0.21** | **0.11** |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.02U | <0.02U | **0.021J** | <0.02U | <0.02U | <0.02U |
| | Sulfate | mg/L | <1.5U | **6.3** | **9.5** | **3.7J** | **2J** | **8** | **14.7** |
| | Total Organic Carbon | mg/L | **1.4** | **1.2** | **1.3** | **1.3** | **1U** | **1.1** | <0.77U |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **280** | **1,100** | **600** | **500** | **2,100** | **3,000** | **2,700** |
| | Manganese | µg/L | **430** | **410** | **550** | **420** | **740** | **560** | **860** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **1.3J** | - | **1.5J** | - | **0.95J** | - | **1.1J** |
| | 1,2-Dichlorobenzene | µg/L | **3** | - | **3.1** | - | **2.3** | - | **2** |
| | 1,3-Dichlorobenzene | µg/L | **1.4J** | - | **1.5J** | - | **1J** | - | **1J** |
| | 1,4-Dichlorobenzene | µg/L | **10** | - | **11** | - | **7.6** | - | **7** |
| | 1,4-Dioxane | µg/L | **19** | - | **15** | - | **18** | - | **11** |
| | 2,4,5-Trichlorophenol | µg/L | <0.45U | - | <0.46U | - | <0.48U | - | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | <0.57U | - | <0.59U | - | <0.61U | - | <0.61U |
| | 2,4-Dichlorophenol | µg/L | <0.48U | - | <0.49U | - | <0.51U | - | <0.51U |
| | 2,4-Dimethylphenol | µg/L | <0.47U | - | <0.48U | - | <0.5U | - | <0.5U |
| | 2,4-Dinitrophenol | µg/L | <2.1U | - | <2.1U | - | <2.2U | - | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | <0.42U | - | <0.43U | - | <0.45U | - | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | <0.38U | - | <0.38U | - | <0.4U | - | <0.4U |
| | 2-Chloronaphthalene | µg/L | <0.43U | - | <0.44U | - | <0.46U | - | <0.46U |
| | 2-Chlorophenol | µg/L | <0.5U | - | <0.51U | - | <0.53U | - | <0.53U |
| | 2-Methylnaphthalene | µg/L | <0.56U | - | <0.58U | - | <0.6U | - | <0.6U |
| | 2-Methylphenol | µg/L | <0.38U | - | <0.38U | - | <0.4U | - | <0.4U |
| | 2-Nitroaniline | µg/L | <0.39U | - | <0.4U | - | <0.42U | - | <0.42U |
| | 2-Nitrophenol | µg/L | <0.45U | - | <0.46U | - | <0.48U | - | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | <0.38UJ | - | <0.38U | - | <0.4U | - | <0.4U |
| | 3-Nitroaniline | µg/L | <0.45U | - | <0.46U | - | <0.48U | - | <0.48U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.1U | - | <2.1U | - | <2.2U | - | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <0.42U | - | <0.43U | - | <0.45U | - | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | <0.42U | - | <0.43U | - | <0.45U | - | <0.45U |
| | 4-Chloroaniline | µg/L | <0.55U | - | <0.57U | - | <0.59U | - | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.33U | - | <0.34U | - | <0.35U | - | <0.35U |
| | 4-Methylphenol | µg/L | <0.34U | - | <0.35U | - | <0.36U | - | <0.36U |
| | 4-Nitroaniline | µg/L | <0.23U | - | <0.24U | - | <0.25U | - | <0.25U |
| | 4-Nitrophenol | µg/L | <1.4U | - | <1.5U | - | <1.5U | - | <1.5U |
| | Acenaphthene | µg/L | <0.38U | - | <0.39U | - | <0.41U | - | <0.41U |
| | Acenaphthylene | µg/L | <0.36U | - | <0.36U | - | <0.38U | - | <0.38U |
| | Anthracene | µg/L | <0.26U | - | <0.27U | - | <0.28U | - | <0.28U |
| | Benz(a)anthracene | µg/L | <0.34U | - | <0.35U | - | <0.36U | - | <0.36U |
| | Benzo(a)pyrene | µg/L | <0.44U | - | <0.45U | - | <0.47U | - | <0.47U |
| | Benzo(b)fluoranthene | µg/L | <0.32U | - | <0.33U | - | <0.34U | - | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | <0.33U | - | <0.34U | - | <0.35U | - | <0.35U |
| | Benzo(k)fluoranthene | µg/L | <0.69U | - | <0.7U | - | <0.73U | - | <0.73U |
| | Benzoic acid | µg/L | <94U | - | - | - | <100U | - | <100U |
| | Benzyl alcohol | µg/L | <6.6U | - | <0.42U | - | <0.44U | - | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | <0.33U | - | <0.34U | - | <0.35U | - | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | <0.38U | - | <0.38U | - | <0.4U | - | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.49U | - | <0.5U | - | <0.52U | - | <0.52U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.7U | - | <1.7U | - | <1.8U | - | <1.8U |
| | Butyl benzyl phthalate | µg/L | <0.39U | - | <0.4U | - | <0.42U | - | <0.42U |
| | Carbazole | µg/L | <0.28U | - | <0.29U | - | <0.3U | - | <0.3U |
| | Chrysene | µg/L | <0.31U | - | <0.32U | - | <0.33U | - | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | <0.39U | - | <0.4U | - | <0.42U | - | <0.42U |
| | Dibenzofuran | µg/L | <0.48U | - | <0.49U | - | <0.51U | - | <0.51U |
| | Diethyl phthalate | µg/L | <0.21U | - | <0.21U | - | <0.22U | - | <0.22U |
| | Dimethyl phthalate | µg/L | <0.34U | - | <0.35U | - | <0.36U | - | <0.36U |
| | Di-n-butyl phthalate | µg/L | **0.37J** | - | <0.3U | - | <0.31U | - | <0.31U |
| | Di-n-octyl phthalate | µg/L | <0.44U | - | <0.45U | - | <0.47U | - | <0.47U |
| | Fluoranthene | µg/L | <0.38U | - | <0.38U | - | <0.4U | - | <0.4U |
| | Fluorene | µg/L | <0.34U | - | <0.35U | - | <0.36U | - | <0.36U |

**MW-20A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/22/2015 | 10/19/2015 | 5/16/2016 | 10/26/2016 | 4/24/2017 | 10/17/2017 | 5/7/2018 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Hexachlorobenzene | µg/L | <0.48U | - | <0.49U | - | <0.51U | - | <0.51U |
| | Hexachlorobutadiene | µg/L | <0.64U | - | <0.65U | - | <0.68U | - | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | <0.55U | - | <0.57U | - | <0.59U | - | <0.59U |
| | Hexachloroethane | µg/L | <0.55U | - | <0.57U | - | <0.59U | - | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.44U | - | <0.45U | - | <0.47U | - | <0.47U |
| | Isophorone | µg/L | <0.4U | - | <0.41U | - | <0.43U | - | <0.43U |
| | Naphthalene | µg/L | <0.71U | - | <0.73U | - | <0.76U | - | <0.76U |
| | Nitrobenzene | µg/L | <0.27U | - | <0.28U | - | <0.29U | - | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | <0.51U | - | <0.52U | - | <0.54U | - | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | <0.48U | - | <0.49U | - | <0.51U | - | <0.51U |
| | Pentachlorophenol | µg/L | <2.1U | - | <2.1U | - | <2.2U | - | <2.2U |
| | Phenanthrene | µg/L | <0.41U | - | <0.42U | - | <0.44U | - | <0.44U |
| | Phenol | µg/L | <0.37U | - | <0.37U | - | <0.39U | - | <0.39U |
| | Pyrene | µg/L | <0.32U | - | <0.33U | - | <0.34U | - | <0.34U |
| | Total SVOCS | µg/L | **36** | - | **33** | - | **30** | - | **23** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **21** | **21** | **21** | **23** | **23** | **21** | **18** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **4J** | **3.7J** | **3.7J** | **4J** | **3.2J** | **3J** | **2.6J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | **0.35J** | **0.26J** | <0.21U | <0.21U | <0.21U | **0.21J** |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **1.9J** | **1.7J** | **1.8J** | **1.9J** | **1.6J** | **1.5J** | **1.3J** |
| | 1,4-Dichlorobenzene | µg/L | **14** | **14** | **14** | **14** | **12** | **11** | **9.6** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | **3.4J** | <3U |
| | Benzene | µg/L | **0.61J** | **0.55J** | **0.66J** | **0.63J** | **0.65J** | **0.62J** | **0.56J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26UJ | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69UJ | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **5.9** | **6.1** | **5.6** | **5.9** | **5.6** | **5.7** | **5** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | **2.6J** | **1.3J** | **1.7J** | **1.8J** | <0.32UJ | **1.4J** | **1.1J** |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **3.1** | **3.3** | **3.1** | **3.7** | **3.3** | **3.1** | **2.6** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <5U | **1.9J** | **2J** | **2J** | **2.3J** | **1.9J** | **1.5J** |
| | Tetrachloroethene | µg/L | **0.38J** | **1J** | **0.66J** | **0.98J** | **0.86J** | **1.4J** | **0.91J** |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **54** | **55** | **55** | **58** | **53** | **55** | **44** |

**MW-20A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/15/2018 | 4/23/2019 | 10/7/2019 | 4/29/2020 | 10/19/2020 | 4/26/2021 | 10/25/2021 | 4/20/2022 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **135** | **105** | **86.4** | **104** | **99.7** | **92.8** | **93.8** | **96.7** |
| | Ammonia | mg/L | **0.21** | **0.14** | **1.6** | **0.14** | **0.19** | **0.14** | **0.16** | **0.15** |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.02UJ | **0.029U** | <0.02U | **0.061** | **0.042J** | **0.032J-** | **0.038J** |
| | Sulfate | mg/L | **9** | **9.9** | **34.9** | **9.3** | **30.9** | **11.8J+** | **11.8** | **14.9** |
| | Total Organic Carbon | mg/L | **1.2** | **1.1J** | **3.5** | **0.45J** | **2.4** | **0.82J** | **0.72J** | **0.75J** |
| Metals | Arsenic | µg/L | **10** | <5.6U | **17** | **13** | **27** | <5.6U | <5.6U | **5.8J** |
| | Iron | µg/L | **4,100** | **2,500** | **23,800** | **6,800** | **27,400** | **2,400** | **1,900** | **7,300** |
| | Manganese | µg/L | **1,100** | **1,100** | **12,000** | **3,500** | **11,300** | **860** | **1,000** | **1,500** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | **1.1J** | - | **1.0J** | - | **0.89J** | - | **0.82J** |
| | 1,2-Dichlorobenzene | µg/L | - | **2.3** | - | **2.0J** | - | **1.7J** | - | **1.3J** |
| | 1,3-Dichlorobenzene | µg/L | - | **1.2J** | - | **1.1J** | - | **0.98J** | - | **0.78J** |
| | 1,4-Dichlorobenzene | µg/L | - | **7.9** | - | **7.2** | - | **6.1** | - | **4.6** |
| | 1,4-Dioxane | µg/L | - | **11** | - | **11** | - | **7.6J** | - | **7J** |
| | 2,4,5-Trichlorophenol | µg/L | - | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | - | <0.61U | - | <0.61U | - | <0.61U | - | <0.61U |
| | 2,4-Dichlorophenol | µg/L | - | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U |
| | 2,4-Dimethylphenol | µg/L | - | <0.5U | - | <0.5U | - | <0.5U | - | <0.5U |
| | 2,4-Dinitrophenol | µg/L | - | <2.2U | - | <2.2U | - | <2.2U | - | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | - | <0.45U | - | <0.45U | - | <0.45U | - | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | - | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U |
| | 2-Chloronaphthalene | µg/L | - | <0.46U | - | <0.46U | - | <0.46U | - | <0.46U |
| | 2-Chlorophenol | µg/L | - | <0.53U | - | <0.53U | - | <0.53U | - | <0.53U |
| | 2-Methylnaphthalene | µg/L | - | <0.6U | - | <0.6U | - | <0.6U | - | <0.6U |
| | 2-Methylphenol | µg/L | - | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U |
| | 2-Nitroaniline | µg/L | - | <0.42U | - | <0.42U | - | <0.42U | - | <0.42U |
| | 2-Nitrophenol | µg/L | - | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | - | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U |
| | 3-Nitroaniline | µg/L | - | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | <2.2U | - | <2.2U | - | <2.2U | - | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | - | <0.45U | - | <0.45U | - | <0.45U | - | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | - | <0.45U | - | <0.45U | - | <0.45U | - | <0.45U |
| | 4-Chloroaniline | µg/L | - | <0.59U | - | <0.59U | - | <0.59U | - | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | - | <0.35U | - | <0.35U | - | <0.35U | - | <0.35U |
| | 4-Methylphenol | µg/L | - | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U |
| | 4-Nitroaniline | µg/L | - | <0.25U | - | <0.25U | - | <0.25U | - | <0.25U |
| | 4-Nitrophenol | µg/L | - | <1.5U | - | <1.5U | - | <1.5U | - | <1.5U |
| | Acenaphthene | µg/L | - | <0.41U | - | <0.41U | - | <0.41U | - | <0.41U |
| | Acenaphthylene | µg/L | - | <0.38U | - | <0.38U | - | <0.38U | - | <0.38U |
| | Anthracene | µg/L | - | <0.28U | - | <0.28U | - | <0.28U | - | <0.28U |
| | Benz(a)anthracene | µg/L | - | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U |
| | Benzo(a)pyrene | µg/L | - | <0.47U | - | <0.47U | - | <0.47U | - | <0.47U |
| | Benzo(b)fluoranthene | µg/L | - | <0.34U | - | <0.34U | - | <0.34U | - | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | - | <0.35U | - | <0.35U | - | <0.35U | - | <0.35U |
| | Benzo(k)fluoranthene | µg/L | - | <0.73U | - | <0.73U | - | <0.73U | - | <0.73U |
| | Benzoic acid | µg/L | - | <100U | - | <100U | - | <100U | - | <100U |
| | Benzyl alcohol | µg/L | - | <0.44U | - | <0.44U | - | <0.44U | - | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | - | <0.35U | - | <0.35U | - | <0.35U | - | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | - | <0.4U | - | <0.40U | - | <0.4U | - | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | - | <0.52U | - | <0.52U | - | <0.52U | - | <0.52U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | <1.8U | - | <1.8U | - | <1.8U | - | <1.8U |
| | Butyl benzyl phthalate | µg/L | - | <0.46U | - | <0.42U | - | <0.42U | - | <0.42U |
| | Carbazole | µg/L | - | <0.3U | - | <0.3U | - | <0.3U | - | <0.3U |
| | Chrysene | µg/L | - | <0.33U | - | <0.33U | - | <0.33U | - | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | - | <0.42U | - | <0.42U | - | <0.42U | - | <0.42U |
| | Dibenzofuran | µg/L | - | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U |
| | Diethyl phthalate | µg/L | - | <0.22U | - | <0.22U | - | <0.22U | - | **0.39J** |
| | Dimethyl phthalate | µg/L | - | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U |
| | Di-n-butyl phthalate | µg/L | - | <0.31U | - | <0.31U | - | <0.31U | - | <10U |
| | Di-n-octyl phthalate | µg/L | - | <0.47U | - | <0.47U | - | <0.47U | - | <0.47U |
| | Fluoranthene | µg/L | - | <0.4U | - | <0.40U | - | <0.4U | - | <0.4U |
| | Fluorene | µg/L | - | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U |

**MW-20A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/15/2018 | 4/23/2019 | 10/7/2019 | 4/29/2020 | 10/19/2020 | 4/26/2021 | 10/25/2021 | 4/20/2022 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Hexachlorobenzene | µg/L | - | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U |
| | Hexachlorobutadiene | µg/L | - | <0.68U | - | <0.68U | - | <0.68U | - | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | - | <0.59U | - | <0.59U | - | <0.59U | - | <0.59U |
| | Hexachloroethane | µg/L | - | <0.59U | - | <0.59U | - | <0.59U | - | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | <0.47U | - | <0.47U | - | <0.47U | - | <0.47U |
| | Isophorone | µg/L | - | <0.43U | - | <0.43U | - | <0.43U | - | <0.43U |
| | Naphthalene | µg/L | - | <0.76U | - | <0.76U | - | <0.76U | - | <0.76U |
| | Nitrobenzene | µg/L | - | <0.29U | - | <0.29U | - | <0.29U | - | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | - | <0.54U | - | <0.54U | - | <0.54U | - | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | - | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U |
| | Pentachlorophenol | µg/L | - | <2.2U | - | <2.2U | - | <2.2U | - | <2.2UJ |
| | Phenanthrene | µg/L | - | <0.44U | - | <0.44U | - | <0.44U | - | <0.44U |
| | Phenol | µg/L | - | <0.39U | - | <0.39U | - | <0.39U | - | <0.39U |
| | Pyrene | µg/L | - | <0.34U | - | <0.34U | - | <0.34U | - | <0.34U |
| | Total SVOCS | µg/L | - | **24** | - | **23** | - | **18** | - | **15** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **21** | **18** | **11** | **12** | **12** | **12** | **9.2** | **8.1** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **3.1J** | **2.5J** | **3.8J** | **1.9J** | **2.1J** | **2.3J** | **1.9J** | **1.6J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **1.7J** | **1.4J** | **3.6J** | **1.1J** | **1.2J** | **1.4J** | **1.2J** | **0.93J** |
| | 1,4-Dichlorobenzene | µg/L | **11** | **9** | **21** | **7.1** | **7.7** | **9.1** | **7.2** | **5.7** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3.0U | <3.0U | <3U | <3U | <3U |
| | Benzene | µg/L | **0.55J** | **0.66J** | **2J** | **0.44J** | **0.41J** | **0.44J** | **0.41J** | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **6.5** | **5.2** | **12** | **4.3J** | **4.1J** | **5.1** | **3.8J** | **3.4J** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35UJ | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **2.7** | **2.6** | <0.81U | **2.4** | **2.3** | **2.6** | **2.1** | **1.8** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | **1.2J** | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **1.3J** | **1.7J** | **3.8J** | **1.4J** | **1.3J** | **1.7J** | **1.2J** | **0.85J** |
| | Tetrachloroethene | µg/L | <0.36U | **0.83J** | **1.2J** | **0.56J** | **1.2J** | <0.36U | **0.56J** | **0.37J** |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9UJ | <0.90U | <0.90U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **48** | **42** | **60** | **32** | **33** | **35** | **28** | **23** |

**MW-20A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/25/2022 | 4/24/2023 | 10/30/2023 | 4/30/2024 | 10/28/2024 | 4/20/2025 | 10/22/2025 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **88** | **83.2** | **91** | **87.9J-** | **90.2** | **87.2** | **91.9** |
| | Ammonia | mg/L | **0.25** | **0.15** | **0.15** | **0.18** | **0.14** | **0.17J+** | **0.21** |
| | Nitrate+Nitrite | mg/L | <0.02U | **10.8** | **0.05J+** | <0.02U | <0.02U | **0.028J** | <0.02U |
| | Sulfate | mg/L | **13.4** | **7** | **8.1** | **9.8** | **10.4** | **13.6** | **11.9** |
| | Total Organic Carbon | mg/L | **1** | <0.43U | <0.43U | **0.58J** | <0.43U | <0.43U | <0.43U |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **790** | **660** | **650** | **1,100** | **550** | **1,400** | **600** |
| | Manganese | µg/L | **730** | **830** | **790** | **860** | **730** | **820** | **680** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | **0.81J** | - | **0.63J** | - | **0.89J** | - |
| | 1,2-Dichlorobenzene | µg/L | - | **1J** | - | **1J** | - | **1.1J** | - |
| | 1,3-Dichlorobenzene | µg/L | - | **0.64J** | - | **0.63J** | - | **0.58J** | - |
| | 1,4-Dichlorobenzene | µg/L | - | **4J** | - | **3.7J** | - | **3.6J** | - |
| | 1,4-Dioxane | µg/L | - | **6.2J** | - | **5.6J** | - | **4.5J** | - |
| | 2,4,5-Trichlorophenol | µg/L | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | - | <0.61U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | - | <0.5U | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | - | <2.2U | - | <2.2UJ | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | - | <0.46U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | - | <0.53U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | - | <0.6U | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | - | <0.48U | - | <0.48U | - | <0.48UJ | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | - | <0.25U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | - | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | - | <0.41U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | - | <0.38U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | - | <0.28U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | - | <0.34U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | - | <0.35U | - | <0.35UJ | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | - | <0.73U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | - | <100U | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | - | <0.44U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | - | <0.4U | - | <0.4UJ | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | <0.52U | - | <0.52U | - | <0.52UJ | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | <1.8U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | Carbazole | µg/L | - | <0.3U | - | <0.3U | - | <0.3UJ | - |
| | Chrysene | µg/L | - | <0.33U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | - | <0.22U | - | <0.22U | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | - | **0.32J** | - | <0.31U | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Fluoranthene | µg/L | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | Fluorene | µg/L | - | <0.36U | - | <0.36U | - | <0.36U | - |

**MW-20A**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A | MW-20A |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/25/2022 | 4/24/2023 | 10/30/2023 | 4/30/2024 | 10/28/2024 | 4/20/2025 | 10/22/2025 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Hexachlorobenzene | µg/L | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | - | <0.68U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | - | <0.59U | - | <0.59UJ | - | <0.59U | - |
| | Hexachloroethane | µg/L | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | <0.47U | - | <0.47UJ | - | <0.47U | - |
| | Isophorone | µg/L | - | <0.43U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | - | <0.76U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | - | <0.29U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | - | <0.54U | - | <0.54U | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | Phenanthrene | µg/L | - | <0.44U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | - | <0.39U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | - | <0.34U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | - | **13** | - | **12** | - | **11** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **8.3** | **8.7** | **7.2** | **7.2** | **5.5** | **5.7** | **3.8J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29UJ | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **1.5J** | **1.6J** | **1.4J** | **1.6J** | **1.4J** | **1.4J** | **1.1J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **0.88J** | **0.98J** | **0.9J** | **1J** | **0.82J** | **0.89J** | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | **5.4** | **6.1J** | **5.4** | **6.3** | **5.1** | **5** | **4.1J** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27UJ | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **3.1J** | **3.8J** | **3.5J** | **4.5J** | **3.6J** | **3.5J** | **3J** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **1.8** | **1.8** | **1.4** | **1.4** | **1.3** | **1.4** | **1.2** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **1.2J** | **1.1J** | **0.83J** | **0.86J** | **1J** | **0.79J** | **0.78J** |
| | Tetrachloroethene | µg/L | **0.77J** | **0.54J** | <0.36U | <0.36U | **0.82J** | <0.36U | **0.72J** |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **23** | **25** | **21** | **23** | **20** | **19** | **15** |

**MW-20B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 12/27/2011 | 4/30/2012 | 11/20/2012 | 4/17/2013 | 10/21/2013 | 4/21/2014 | 10/22/2014 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **21.3J** | **66J** | **52.2J** | **34.9** | **102J** | - | **102** |
| | Ammonia | mg/L | **0.6** | **1.6** | **2.4** | **1.6** | **5.3** | - | **4.8** |
| | Nitrate+Nitrite | mg/L | <0.05UJ | <0.05U | **0.031J** | <0.02U | <0.02U | - | **0.038J** |
| | Sulfate | mg/L | **9.3J** | <5.7U | **5.3** | **4.4J** | <5U | - | <1.5U |
| | Total Organic Carbon | mg/L | **0.78J** | **1.8J** | <1U | **1.5** | <2.4U | - | **3.1J** |
| Metals | Arsenic | µg/L | **11** | **24** | **26** | **24** | **28** | - | **27** |
| | Iron | µg/L | **7,000** | **25,500J** | **17,400** | **16,400** | **30,900** | - | **28,300** |
| | Manganese | µg/L | **3,200** | **10,300** | **6,800** | **7,200** | **10,300** | - | **9,800** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <1.8U | **2.9** | **0.8J** | **0.84J** | - | **0.5J** | - |
| | 1,2-Dichlorobenzene | µg/L | <1.8U | **3.4** | **1.8** | **0.83J** | - | **0.9J** | - |
| | 1,3-Dichlorobenzene | µg/L | <1.8U | **2.3** | **1.2J** | **0.58J** | - | **0.91J** | - |
| | 1,4-Dichlorobenzene | µg/L | <4.2U | **17** | **8.2** | **3.7J** | - | **4.4** | - |
| | 1,4-Dioxane | µg/L | <9.4U | **9J** | **6.9J** | <1.1U | - | **1.6J** | - |
| | 2,4,5-Trichlorophenol | µg/L | <9.4U | <9.4U | <9.4U | <0.46U | - | <0.45U | - |
| | 2,4,6-Trichlorophenol | µg/L | <2.9U | <2.9U | <2.9U | <0.59U | - | <0.58U | - |
| | 2,4-Dichlorophenol | µg/L | <2.6U | <2.6U | <2.6U | <0.49U | - | <0.48U | - |
| | 2,4-Dimethylphenol | µg/L | <2.6U | **2J** | <2.6U | <0.48U | - | <0.47U | - |
| | 2,4-Dinitrophenol | µg/L | <41U | <41U | <41U | <2.1U | - | <2.1U | - |
| | 2,4-Dinitrotoluene | µg/L | <5.5U | <5.5U | <5.5U | <0.43U | - | <0.42U | - |
| | 2,6-Dinitrotoluene | µg/L | <1.8U | <1.8U | <1.8U | <0.39U | - | <0.38U | - |
| | 2-Chloronaphthalene | µg/L | <1.8U | <1.8U | <1.8U | <0.44U | - | <0.43U | - |
| | 2-Chlorophenol | µg/L | <3.1U | <3.1U | <3.1U | <0.51U | - | <0.5U | - |
| | 2-Methylnaphthalene | µg/L | <9.4U | **1.3J** | <9.4U | <0.58U | - | <0.57U | - |
| | 2-Methylphenol | µg/L | <9.4U | <9.4U | <9.4U | <0.39U | - | <0.38U | - |
| | 2-Nitroaniline | µg/L | <9.4U | <9.4U | <9.4U | <0.41U | - | <0.4U | - |
| | 2-Nitrophenol | µg/L | <3.4U | <3.4U | <3.4U | <0.46U | - | <0.45U | - |
| | 3,3-Dichlorobenzidine | µg/L | <16U | <16U | <16U | <0.39U | - | <0.38U | - |
| | 3-Nitroaniline | µg/L | <9.4U | <9.4U | <9.4U | <0.46U | - | <0.45UJ | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <23U | <23U | <23U | <2.1U | - | <2.1U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <1.7U | <1.7U | <1.7U | <0.43U | - | <0.42U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <2.8U | <2.8U | <2.8U | <0.43U | - | <0.42U | - |
| | 4-Chloroaniline | µg/L | <1.9U | <1.9U | <1.9U | <0.57U | - | <0.56UJ | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <4.1U | <4.1U | <4.1U | <0.34U | - | <0.33U | - |
| | 4-Methylphenol | µg/L | <9.4U | <9.4U | <9.4UJ | <0.35U | - | <0.34U | - |
| | 4-Nitroaniline | µg/L | <9.4U | <9.4U | <9.4U | <0.24U | - | <0.24U | - |
| | 4-Nitrophenol | µg/L | <2.8U | <2.8U | <2.8U | <1.5U | - | <1.4U | - |
| | Acenaphthene | µg/L | <1.7U | <1.7U | <1.7U | <0.4U | - | <0.39U | - |
| | Acenaphthylene | µg/L | <3.3U | <3.3U | <3.3U | <0.37U | - | <0.36U | - |
| | Anthracene | µg/L | <1.7U | <1.7U | <1.7U | <0.27U | - | <0.26U | - |
| | Benz(a)anthracene | µg/L | **1.2J** | <7.4U | <7.4U | <0.35U | - | <0.34U | - |
| | Benzo(a)pyrene | µg/L | **0.52J** | <2.5U | <2.5U | <0.45U | - | <0.44U | - |
| | Benzo(b)fluoranthene | µg/L | **0.68J** | <9.4U | <9.4U | <0.33U | - | <0.32U | - |
| | Benzo(g,h,i)perylene | µg/L | <3.9U | <3.9U | <3.9U | <0.34U | - | <0.33UJ | - |
| | Benzo(k)fluoranthene | µg/L | <2.4U | <2.4U | <2.4U | <0.71U | - | <0.69U | - |
| | Benzoic acid | µg/L | <94U | <94U | <94U | <97U | - | <94U | - |
| | Benzyl alcohol | µg/L | <6.6U | <6.6U | <6.6U | <0.42U | - | <2.2U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <5U | <5U | <5U | <0.34U | - | <0.33U | - |
| | Bis(2-chloroethyl)ether | µg/L | <5.4U | <5.4U | <5.4U | <0.39U | - | <0.38U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <5.4U | <5.4U | <5.4U | <0.5U | - | <0.49U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <9.4U | <9.4U | <9.4U | <1.7U | - | <1.7U | - |
| | Butyl benzyl phthalate | µg/L | <9.4U | <9.4U | <9.4U | <0.41U | - | <0.4U | - |
| | Carbazole | µg/L | <9.4U | <9.4U | <9.4UJ | <0.29U | - | <0.28U | - |
| | Chrysene | µg/L | **0.83J** | <2.4U | <2.4U | <0.32U | - | <0.31U | - |
| | Dibenz(a,h)anthracene | µg/L | <9.4U | <9.4U | <9.4U | <0.41U | - | <0.4U | - |
| | Dibenzofuran | µg/L | <9.4U | <9.4U | <9.4U | <0.49U | - | <0.48U | - |
| | Diethyl phthalate | µg/L | <9.4U | **0.86J** | <9.4U | <0.21U | - | <0.21U | - |
| | Dimethyl phthalate | µg/L | <9.4U | <9.4U | <9.4U | <0.35U | - | <0.34U | - |
| | Di-n-butyl phthalate | µg/L | <1.9U | <9.4U | <9.4U | <0.3U | - | **0.3J** | - |
| | Di-n-octyl phthalate | µg/L | <9.4U | <9.4U | <9.4U | <0.45U | - | <0.44U | - |
| | Fluoranthene | µg/L | **3.5** | <2.1U | <2.1U | <0.39U | - | <0.38U | - |
| | Fluorene | µg/L | <1.8U | <1.8U | <1.8U | <0.35U | - | <0.34U | - |

**MW-20B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 12/27/2011 | 4/30/2012 | 11/20/2012 | 4/17/2013 | 10/21/2013 | 4/21/2014 | 10/22/2014 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Hexachlorobenzene | µg/L | <2.1U | <2.1U | <2.1U | <0.49U | - | <0.48U | - |
| | Hexachlorobutadiene | µg/L | <2.4U | <2.4U | <2.4U | <0.66U | - | <0.64U | - |
| | Hexachlorocyclopentadiene | µg/L | <9.4U | <9.4U | <9.4U | <0.57U | - | <0.56U | - |
| | Hexachloroethane | µg/L | <2.7U | <2.7U | <2.7U | <0.57U | - | <0.56U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <4.5U | <4.5U | <4.5U | <0.45U | - | <0.44U | - |
| | Isophorone | µg/L | <2.1U | <2.1U | <2.1U | <0.42U | - | <0.41U | - |
| | Naphthalene | µg/L | <1.5U | **6.2** | <1.5U | <0.73U | - | <0.72U | - |
| | Nitrobenzene | µg/L | <1.9U | <1.9U | <1.9U | <0.28U | - | <0.27U | - |
| | N-nitrosodi-n-propylamine | µg/L | <4.7U | <4.7U | <4.7U | <0.52U | - | <0.51U | - |
| | N-Nitrosodiphenylamine | µg/L | <1.8U | <1.8U | <1.8U | <0.49U | - | <0.48U | - |
| | Pentachlorophenol | µg/L | <4.8U | <4.8U | <4.8U | <2.1U | - | <2.1U | - |
| | Phenanthrene | µg/L | **1.8J** | <4.7U | <4.7U | <0.42U | - | <0.41U | - |
| | Phenol | µg/L | <2.4UJ | <2.4U | <2.4U | <0.38U | - | <0.37U | - |
| | Pyrene | µg/L | **2.1** | <1.8U | <1.8U | <0.33U | - | <0.32U | - |
| | Total SVOCS | µg/L | **11** | **45** | **19** | **6** | - | **8.7** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | **1.6J** | **5.7** | **1.1J** | <0.82U | **4.8J** | <0.82U | **3.7J** |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <5U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <5U | **43J** | **11** | **2.6J** | **28** | **1.9J** | **49** |
| | 1,1-Dichloroethene | µg/L | <5U | **0.43J** | <5U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <5U | **6.3J** | **1.9J** | **1.1J** | **11** | **1J** | **9.2** |
| | 1,2-Dichloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U | **0.42J** |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <5U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <5U | **3.8J** | **1.2J** | **0.88J** | **10** | **1J** | **7.5** |
| | 1,4-Dichlorobenzene | µg/L | <5U | **25** | **7.8** | **5.1** | **50** | **5** | **40** |
| | 2-Butanone | µg/L | <5U | **1.7J** | <5U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <5U | <5U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <5U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <10U | <10U | <10U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <5U | **7.7J** | **1.8J** | **1.9J** | **5.7** | <0.41U | **5.9** |
| | Dichlorobromomethane | µg/L | <5U | <5U | <5U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <5U | <5U | <5U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <5U | <5U | <5U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <5U | <5U | <5U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <5U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <5U | **20J** | **4.6J** | **2.2J** | **35** | **2J** | **31** |
| | Chlorodibromomethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <5U | **12** | <5U | <0.32U | **1.8J** | <0.32U | <0.32U |
| | Chloroform | µg/L | <5U | <5U | <5U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <5U | <5U | <5U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <1U | **0.83J** | **1.1** | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <5U | <5U | **3J** | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <5U | **40J** | <5U | <0.74U | **22** | <0.74U | **19** |
| | Styrene | µg/L | <5U | <5U | <5U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **8.3** | **1.2J** | **5.8** | **3.5J** | **0.96J** | **1.5J** | **1.5J** |
| | Tetrachloroethene | µg/L | **8.2** | **0.61J** | **1.6J** | **0.8J** | **0.91J** | **0.86J** | **1.1J** |
| | Toluene | µg/L | <5U | **690J** | **0.6J** | <0.51U | **150J** | <0.51U | **160J** |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <5U | **3.4J** | <5U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <5U | **120** | <5U | <0.66U | **65** | <0.66U | **54** |
| | Total VOCS | µg/L | **19** | **990** | **42** | **19** | **390** | **14** | **390** |

**MW-20B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/22/2015 | 10/19/2015 | 5/16/2016 | 10/26/2016 | 4/24/2017 | 10/17/2017 | 5/7/2018 | 10/15/2018 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **27.4** | **85J** | **43.9** | **33.6** | **21.6** | **43.8** | **16.3** | **26.8J+** |
| | Ammonia | mg/L | **1.7** | **4.8** | **1.9** | **4.4** | **1.1** | **4.3** | **1.6** | **1.8** |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.02U | <0.02U | **0.03J** | **0.08J-** | <0.02U | **0.057** | <0.02U |
| | Sulfate | mg/L | **6.1** | **39.1** | **8.7** | **37.6** | **13.2** | **64.2** | **11.8** | **19.4** |
| | Total Organic Carbon | mg/L | <1U | **2.2J** | **1.1** | **2.2** | **1U** | **2.3** | <0.74U | **1.5** |
| Metals | Arsenic | µg/L | **11** | **25** | **14** | **30** | <5.6U | **26** | **7.4J** | **19** |
| | Iron | µg/L | **8,300** | **23,100** | **10,200** | **18,200** | **2,600** | **20,500** | **6,300** | **12,100** |
| | Manganese | µg/L | **2,900** | **8,000** | **3,900** | **6,700** | **2,100** | **7,500** | **2,600** | **4,800** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **0.74J** | - | **0.75J** | - | <0.44U | - | **0.59J** | - |
| | 1,2-Dichlorobenzene | µg/L | **0.67J** | - | <0.38U | - | <0.4U | - | <0.4U | - |
| | 1,3-Dichlorobenzene | µg/L | **0.72J** | - | <0.46U | - | <0.48U | - | <0.48U | - |
| | 1,4-Dichlorobenzene | µg/L | **3.2J** | - | **1.2J** | - | **0.61J** | - | **0.49J** | - |
| | 1,4-Dioxane | µg/L | **1.5J** | - | <1.1U | - | <1.1U | - | <1.1U | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | <0.46U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | <0.58U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | <0.49U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | <0.48U | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | <2.1U | - | <2.2U | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | <0.43U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | <0.38U | - | <0.4U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | <0.44U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | <0.51U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | <0.57U | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | <0.4U | - | <0.38U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | <0.4U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | <0.46U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.4UJ | - | <0.38U | - | <0.4U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | <0.46U | - | <0.48U | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | <2.1U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | <0.43U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | <0.43U | - | <0.45U | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | <0.56U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | <0.33U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | <0.36U | - | <0.34U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | <0.24U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | <0.41U | - | <0.39U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | <0.38U | - | <0.36U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | <0.28U | - | <0.27U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | <0.34U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | <0.45U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | <0.33U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | <0.33U | - | <0.35U | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | <0.7U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | <100U | - | - | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | <7U | - | <0.42U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | <0.33U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | <0.38U | - | <0.4U | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | <0.5U | - | <0.52U | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | <1.7U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <10U | - | <0.4U | - | <0.42U | - | <0.44U | - |
| | Carbazole | µg/L | <0.3U | - | <0.29U | - | <0.3U | - | <0.3U | - |
| | Chrysene | µg/L | <0.33U | - | <0.32U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | <0.4U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.51U | - | <0.49U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | <0.22U | - | <0.21U | - | <0.22U | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | <0.34U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | **0.35J** | - | <0.3U | - | <0.31U | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | <0.45U | - | <0.47U | - | <0.47U | - |
| | Fluoranthene | µg/L | <0.4U | - | <0.38U | - | <0.4U | - | <0.4U | - |
| | Fluorene | µg/L | <0.36U | - | <0.34U | - | <0.36U | - | <0.36U | - |

**MW-20B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/22/2015 | 10/19/2015 | 5/16/2016 | 10/26/2016 | 4/24/2017 | 10/17/2017 | 5/7/2018 | 10/15/2018 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Hexachlorobenzene | µg/L | <0.51U | - | <0.49U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | <0.65U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | <0.56U | - | <0.59U | - | <0.59U | - |
| | Hexachloroethane | µg/L | <0.59U | - | <0.56U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | <0.45U | - | <0.47U | - | <0.47U | - |
| | Isophorone | µg/L | <0.43U | - | <0.41U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | <0.76U | - | <0.73U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.29U | - | <0.28U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | <0.52U | - | <0.54U | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | <0.49U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <2.2U | - | <2.1U | - | <2.2U | - | <2.2U | - |
| | Phenanthrene | µg/L | <0.44U | - | <0.42U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | <0.39U | - | <0.37U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | <0.34U | - | <0.33U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | **7.2** | - | **2** | - | **0.61** | - | **1.1** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | **1.8J** | <0.82U | **1.2J** | **2.6J** | <0.82U | **0.84J** | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **2.3J** | **6.1** | <0.38U | **3J** | <0.38U | **2.1J** | <0.38U | **1.1J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **0.93J** | **3.1J** | <0.79U | **2J** | <0.79U | <0.79U | <0.79U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21UJ | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **1J** | **4.3J** | <0.78U | **4J** | <0.78U | **2.4J** | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | **4.3J** | **14** | **1.8J** | **9.4** | <0.84U | **3.8J** | <0.84U | **1.5J** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | **3J** | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | **0.8J** | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26UJ | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69UJ | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **1.7J** | **6.8** | <0.75U | **2.6J** | <0.75U | **1.5J** | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32UJ | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <5U | **1.4J** | **2.4J** | **5.6** | **12** | **2.3J** | **5.4** | **2.2J** |
| | Tetrachloroethene | µg/L | **2.4J** | **0.86J** | **0.74J** | **0.59J** | **9.8** | **0.62J** | **5.1** | **0.69J** |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **13** | **40** | **5** | **32** | **25** | **13** | **12** | **5.5** |

**MW-20B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/23/2019 | 10/7/2019 | 4/29/2020 | 10/19/2020 | 4/26/2021 | 10/25/2021 | 4/20/2022 | 10/25/2022 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **15.6** | **112** | **16.2** | **88** | **23** | **33.2** | **15.6** | **79.1** |
| | Ammonia | mg/L | **0.7** | **0.18** | **0.6** | **3.6** | **0.67** | **0.41** | **0.37** | **2.8** |
| | Nitrate+Nitrite | mg/L | <0.02U | **0.031U** | <0.02U | **0.061** | **0.073** | <0.11U | <0.02U | <0.02U |
| | Sulfate | mg/L | **5.8** | **9.1** | **9.3** | **30.9** | **9.8** | **10** | **6.4** | **18.4** |
| | Total Organic Carbon | mg/L | **0.85J** | **0.5J** | **0.45J** | **2.4** | **0.68J** | **0.71J** | **3.3** | **2.9** |
| Metals | Arsenic | µg/L | **5.8J** | <5.6U | **13** | **27** | **11** | **6.4J** | <5.6U | **29** |
| | Iron | µg/L | **6,700** | **3,400** | **6,800** | **27,400** | **5,200** | **1,000** | **3,100** | **26,400** |
| | Manganese | µg/L | **3,100** | **910** | **3,500** | **11,300** | **3,100** | **2,300** | **2,400** | **12,100** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | <0.44U | - | <0.44U | - | **0.46J** | - | <0.44U | - |
| | 1,2-Dichlorobenzene | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 1,3-Dichlorobenzene | µg/L | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 1,4-Dichlorobenzene | µg/L | <0.46U | - | **0.61 J** | - | **0.87J** | - | <0.46U | - |
| | 1,4-Dioxane | µg/L | <1.1U | - | <1.1U | - | **1.4J** | - | <1.1U | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | <0.61U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | <0.5U | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | <0.46U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | <0.53U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | <0.6U | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | <0.25U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | <0.41U | - | <0.41U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | <0.38U | - | <0.38U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | <0.28U | - | <0.28U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | <0.73U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | <100U | - | <100U | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | <0.44U | - | <0.44U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | <0.40U | - | <0.4U | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | <0.52U | - | <0.52U | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | <1.8U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <0.42U | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | Carbazole | µg/L | <0.3U | - | <0.3U | - | <0.3U | - | <0.3U | - |
| | Chrysene | µg/L | <0.33U | - | <0.33U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | <0.22U | - | <0.22U | - | <0.22U | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | <0.31U | - | <0.31U | - | <0.31U | - | <10U | - |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Fluoranthene | µg/L | <0.4U | - | <0.40U | - | <0.4U | - | <0.4U | - |
| | Fluorene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - | <0.36U | - |

**MW-20B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/23/2019 | 10/7/2019 | 4/29/2020 | 10/19/2020 | 4/26/2021 | 10/25/2021 | 4/20/2022 | 10/25/2022 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Hexachlorobenzene | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | <0.68U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | Hexachloroethane | µg/L | <0.59U | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Isophorone | µg/L | <0.43U | - | <0.43U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | <0.76U | - | <0.76U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.29U | - | <0.29U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | <0.54U | - | <0.54U | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - | <2.2UJ | - |
| | Phenanthrene | µg/L | <0.44U | - | <0.44U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | <0.39U | - | <0.39U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | ND | - | **0.61** | - | **2.8** | - | **ND** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | **3.5J** | **7.8** | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | **16** | <0.38U | **5.2** | <0.38U | <0.38U | <0.38U | **6** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | **2.5J** | <0.79U | **3.9J** | <0.79U | <0.79U | <0.79U | **5.6** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.78U | **1.5J** | <0.84U | **6** | <0.78U | <0.78U | <0.78U | **6.9** |
| | 1,4-Dichlorobenzene | µg/L | <0.84U | **9.4** | <0.78U | **18** | **1.1J** | **1.1J** | <0.84U | **19** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3.0U | <3.0U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | **0.47J** | <0.41U | **1.3J** | <0.41U | <0.41U | <0.41U | **2J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | **5.6** | <0.75U | **14** | <0.75U | <0.75U | <0.75U | **31** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35UJ | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | **2.7** | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | **1.7J** | **4J** | **0.95J** | **19** | **45** | **2.8J** | **1.3J** |
| | Tetrachloroethene | µg/L | <0.36U | **0.49J** | **2.8J** | <0.36U | **19** | **44** | **3.5J** | **0.76J** |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9UJ | <0.90U | <0.90U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | ND | **41** | **6.8** | **50** | **43** | **98** | **6.3** | **73** |

**MW-20B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/24/2023 | 10/30/2023 | 4/30/2024 | 10/28/2024 | 4/20/2025 | 10/22/2025 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **43.3** | **24.8** | **13.1J-** | **56.6** | **38.9** | **72** |
| | Ammonia | mg/L | **0.79** | **0.72** | **0.078** | **1.1** | **1.2** | **3** |
| | Nitrate+Nitrite | mg/L | **0.062** | **0.061J+** | **0.15** | <0.02U | **0.026J** | <0.02U |
| | Sulfate | mg/L | **8** | **6** | **9.2** | **11** | **7.8** | **8.5** |
| | Total Organic Carbon | mg/L | **1.4** | <0.43U | **0.62J** | **2.6** | <0.43U | **1.1** |
| Metals | Arsenic | µg/L | **7.2J** | **12** | <5.6U | **28** | **19** | **24** |
| | Iron | µg/L | **6,800** | **5,100** | **250** | **25,300** | **12,000** | **23,900** |
| | Manganese | µg/L | **5,700** | **3,800** | **1,100** | **12,500** | **5,800** | **10,900** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **0.92J** | - | <0.44U | - | **1.1J** | - |
| | 1,2-Dichlorobenzene | µg/L | **0.41J** | - | <0.4U | - | **1.3J** | - |
| | 1,3-Dichlorobenzene | µg/L | **0.66J** | - | <0.48U | - | **1.2J** | - |
| | 1,4-Dichlorobenzene | µg/L | **2J** | - | <0.46U | - | **3.3J** | - |
| | 1,4-Dioxane | µg/L | **3J** | - | <1.1U | - | **5.8J** | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | <2.2UJ | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | <0.48U | - | <0.48UJ | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | <0.41U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | <0.38U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | <0.28U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | <0.35UJ | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | <100U | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | <0.44U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | <0.4UJ | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | <0.52U | - | <0.52UJ | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | Carbazole | µg/L | <0.3U | - | <0.3U | - | <0.3UJ | - |
| | Chrysene | µg/L | <0.33U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | <0.22U | - | <0.22U | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | **0.6J** | - | <0.31U | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | <0.47U | - | <0.47U | - |
| | Fluoranthene | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | Fluorene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |

**MW-20B**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B | MW-20B |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/24/2023 | 10/30/2023 | 4/30/2024 | 10/28/2024 | 4/20/2025 | 10/22/2025 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Hexachlorobenzene | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | <0.59UJ | - | <0.59U | - |
| | Hexachloroethane | µg/L | <0.59U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | <0.47UJ | - | <0.47U | - |
| | Isophorone | µg/L | <0.43U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | <0.76U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.29U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | <0.54U | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - |
| | Phenanthrene | µg/L | <0.44U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | <0.39U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | **7.6** | - | **ND** | - | **13** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | **2.1J** | **1.5J** | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | <0.38U | <0.38U | **8.4** | **1.2J** | **5.1** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29UJ | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | <0.79U | <0.79U | **8.8** | **1.4J** | **5.4** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | **0.23J** | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.78U | <0.78U | <0.78U | **9.2** | **1.6J** | **6** |
| | 1,4-Dichlorobenzene | µg/L | **2.3J** | **1.2J** | <0.84U | **27** | **4.3J** | **17** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | **2.7J** | <0.41U | **1.6J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27UJ | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **2.1J** | **1.3J** | <0.75U | **60** | **6.1** | **36** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **5.3** | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **14** | **9.5** | **5.8** | <0.46U | **3J** | <0.46U |
| | Tetrachloroethene | µg/L | **13** | **9.8** | **10** | <0.36U | **2.4J** | <0.36U |
| | Toluene | µg/L | **1.2J** | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | **2.5J** | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | **10** | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **53** | **24** | **16** | **120** | **20** | **72** |

# MW-21
## HISTORICAL GROUNDWATER MONITORING DATA

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/17/2013 | 10/22/2013 | 4/22/2014 | 10/21/2014 | 4/21/2015 | 10/20/2015 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **212** | **211J** | **217** | **221** | **212** | **214** |
| | Ammonia | mg/L | **0.47** | **0.75J** | **1.2** | **1.3** | **1.3** | **1.4** |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.02U | <0.02UJ | <0.02UJ | <0.02U | <0.02U |
| | Sulfate | mg/L | <1.5U | <5U | <1.5U | <1.5U | <1.5U | <1.5U |
| | Total Organic Carbon | mg/L | **2.4** | **2.1** | **1.9** | **2.2** | **2.1** | **1.9** |
| Metals | Arsenic | µg/L | **7.2J** | **15** | <5.6U | **20** | <5.6U | **5.7J** |
| | Iron | µg/L | **6,300** | **22,800** | **6,200** | **32,900** | **12,600** | **11,200** |
| | Manganese | µg/L | **1,800** | **1700** | **1,000** | **1,400** | **680J** | **620** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **8.2** | **7** | **6.9** | - | **6.7** | - |
| | 1,2-Dichlorobenzene | µg/L | **9.9** | **8.6** | **7.6** | - | **10** | - |
| | 1,3-Dichlorobenzene | µg/L | **7** | **6.1** | **5.9** | - | **7.1** | - |
| | 1,4-Dichlorobenzene | µg/L | **43** | **41J** | **37** | - | **43** | - |
| | 1,4-Dioxane | µg/L | <1.1U | **19** | **19** | - | **18** | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.46U | <0.48U | <0.48U | - | <0.43U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.59U | <0.61U | <0.61U | - | <0.55U | - |
| | 2,4-Dichlorophenol | µg/L | <0.49U | <0.51U | <0.51U | - | <0.46U | - |
| | 2,4-Dimethylphenol | µg/L | <0.48U | <0.5U | <0.5U | - | <0.45U | - |
| | 2,4-Dinitrophenol | µg/L | <2.1U | <2.2U | <2.2U | - | <2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.43U | <0.45U | <0.45U | - | <0.4U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.39U | <0.4U | <0.4U | - | <0.36U | - |
| | 2-Chloronaphthalene | µg/L | <0.44U | <0.46U | <0.46U | - | <0.42U | - |
| | 2-Chlorophenol | µg/L | <0.51U | <0.53U | <0.53U | - | <0.48U | - |
| | 2-Methylnaphthalene | µg/L | <0.58U | <0.6U | <0.6U | - | <0.54U | - |
| | 2-Methylphenol | µg/L | <0.39U | <0.4U | <0.4U | - | <0.36U | - |
| | 2-Nitroaniline | µg/L | <0.41U | <0.42U | <0.42U | - | <0.38U | - |
| | 2-Nitrophenol | µg/L | <0.46U | <0.48U | <0.48U | - | <0.43U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.39U | <0.4U | <0.4U | - | <0.36U | - |
| | 3-Nitroaniline | µg/L | <0.46U | <0.48U | <0.48UJ | - | <0.43U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.1U | <2.2U | <2.2U | - | <2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.43U | <0.45U | <0.45U | - | <0.41U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.43U | **0.64J** | <0.45U | - | <0.41U | - |
| | 4-Chloroaniline | µg/L | <0.57U | <0.59U | <0.59UJ | - | <0.53U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.34U | <0.35U | <0.35U | - | <0.32U | - |
| | 4-Methylphenol | µg/L | <0.35U | <0.36U | <0.36U | - | <0.33U | - |
| | 4-Nitroaniline | µg/L | <0.24U | <0.25U | <0.25U | - | <0.23UJ | - |
| | 4-Nitrophenol | µg/L | <1.5U | <1.5U | <1.5U | - | <1.4U | - |
| | Acenaphthene | µg/L | <0.4U | <0.41U | <0.41U | - | <0.37U | - |
| | Acenaphthylene | µg/L | <0.37U | <0.38U | <0.38U | - | <0.34U | - |
| | Anthracene | µg/L | <0.27U | <0.28U | <0.28U | - | <0.25U | - |
| | Benz(a)anthracene | µg/L | <0.35U | <0.36U | <0.36U | - | <0.33U | - |
| | Benzo(a)pyrene | µg/L | <0.45U | <0.47U | <0.47U | - | <0.43U | - |
| | Benzo(b)fluoranthene | µg/L | <0.33U | <0.34U | <0.34U | - | <0.31U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.34U | <0.35U | <0.35UJ | - | <0.32U | - |
| | Benzo(k)fluoranthene | µg/L | <0.7U | <0.73U | <0.73U | - | <0.66U | - |
| | Benzoic acid | µg/L | <97U | <100U | <100U | - | <90U | - |
| | Benzyl alcohol | µg/L | <0.42U | <0.44U | <1U | - | <0.4U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.34U | <0.35U | <0.35U | - | <0.32U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.39U | <0.4U | <0.4U | - | <0.36U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.5U | <0.52U | <0.52U | - | <0.47U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.7U | <1.8U | <1.8U | - | <1.6U | - |
| | Butyl benzyl phthalate | µg/L | <0.41U | <10U | <0.42U | - | <9U | - |
| | Carbazole | µg/L | <0.29U | <0.3U | <0.3U | - | <0.27U | - |
| | Chrysene | µg/L | <0.32U | <0.33U | <0.33U | - | <0.3U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.41U | <0.42U | <0.42U | - | <0.38U | - |
| | Dibenzofuran | µg/L | <0.49U | <0.51U | <0.51U | - | <0.46U | - |
| | Diethyl phthalate | µg/L | **1.7J** | **1.9J** | **1.6J** | - | **0.41J** | - |
| | Dimethyl phthalate | µg/L | <0.35U | <0.36U | <0.36U | - | <0.33U | - |
| | Di-n-butyl phthalate | µg/L | <0.3U | <0.31U | <0.31U | - | <0.28U | - |
| | Di-n-octyl phthalate | µg/L | <0.45U | <0.47U | <0.47U | - | <0.43U | - |
| | Fluoranthene | µg/L | <0.39U | <0.4U | <0.4U | - | <0.36U | - |

**MW-21**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/17/2013 | 10/22/2013 | 4/22/2014 | 10/21/2014 | 4/21/2015 | 10/20/2015 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <0.35U | <0.36U | <0.36U | - | <0.33U | - |
| | Hexachlorobenzene | µg/L | <0.49U | <0.51U | <0.51U | - | <0.46U | - |
| | Hexachlorobutadiene | µg/L | <0.66U | <0.68U | <0.68U | - | <0.62U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.57U | <0.59U | <0.59U | - | <0.53U | - |
| | Hexachloroethane | µg/L | <0.57U | <0.59U | <0.59U | - | <0.53U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.45U | <0.47U | <0.47U | - | <0.43U | - |
| | Isophorone | µg/L | <0.42U | <0.43U | <0.43U | - | <0.39U | - |
| | Naphthalene | µg/L | <0.73U | <0.76U | <0.76U | - | <0.69U | - |
| | Nitrobenzene | µg/L | <0.28U | <0.29U | <0.29U | - | <0.26U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.52U | <0.54U | <0.54U | - | <0.49U | - |
| | N-Nitrosodiphenylamine | µg/L | <0.49U | <0.51U | <0.51U | - | <0.46U | - |
| | Pentachlorophenol | µg/L | <2.1U | <2.2U | <2.2U | - | <2U | - |
| | Phenanthrene | µg/L | <0.42U | <0.44U | <0.44U | - | <0.4U | - |
| | Phenol | µg/L | <0.38U | <0.39U | <0.39U | - | <0.35U | - |
| | Pyrene | µg/L | <0.33U | <0.34U | <0.34U | - | <0.31U | - |
| | Total SVOCS | µg/L | **70** | **85** | **78** | - | **86** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82UJ |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **67** | **53** | **49** | **49** | **43** | **38** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **12** | **12** | **12** | **11** | **11** | **11** |
| | 1,2-Dichloroethane | µg/L | **1.1J** | **0.79J** | **0.8J** | **0.81J** | **0.76J** | **0.75J** |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **9.7** | **9.2** | **8.5** | **7** | **7.9** | **8.4** |
| | 1,4-Dichlorobenzene | µg/L | **56** | **54** | **53** | **58** | **50** | **51** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | **3.3J** | <3U |
| | Benzene | µg/L | **2.8J** | **2.2J** | **2.2J** | **2.2J** | **1.9J** | **1.5J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **29** | **30** | **29** | **33** | **27** | **26** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | **39** | **28** | **18** | **17** | **21** | **19** |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **3.2** | **2.7** | **2.8** | **3.8** | **2.9** | **2.9** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | **0.64J** | <0.44U | <0.44U | **0.56J** | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **0.57J** | <0.46U | <0.46U | **0.59J** | **0.46J** | **0.56J** |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | **1.1J** | <0.9U | **1J** | **1.4J** | <0.9U | **0.94J** |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **230** | **200** | **180** | **190** | **170** | **160** |

**MW-21**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 5/17/2016 | 10/28/2016 | 4/25/2017 | 10/18/2017 | 5/7/2018 | 10/16/2018 | 4/22/2019 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **195** | **192** | **201** | **184** | **181** | **178** | **160** |
| | Ammonia | mg/L | **1.4** | **1.4** | **1.5** | **1.6** | **1.9** | **1.9** | **2.3** |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.02U | <0.02U | <0.02U | <0.02U | <0.02U | <0.02U |
| | Sulfate | mg/L | <5U | <1.5U | <1.5U | 1.9U | 2.5U | 2.3U | <1.5U |
| | Total Organic Carbon | mg/L | **2** | **1.8** | **1.5** | **1.9** | **1.5** | **1.5** | **1.8J** |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | **24** | <5.6U | <5.6U | **9.4J** | <5.6U |
| | Iron | µg/L | **6,600** | **6,900** | **52,000** | **6,000** | **8,700** | **18,700** | **1,900** |
| | Manganese | µg/L | **840** | **710** | **1,900** | **1,100** | **910** | **1,300** | **850** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **6.8** | - | **6.8** | - | **6.8** | - | **5.1** |
| | 1,2-Dichlorobenzene | µg/L | **10** | - | **10** | - | **10** | - | **9** |
| | 1,3-Dichlorobenzene | µg/L | **7.3** | - | **7.1** | - | **7.2** | - | **6.6** |
| | 1,4-Dichlorobenzene | µg/L | **42** | - | **44** | - | **46** | - | **37** |
| | 1,4-Dioxane | µg/L | **16** | - | **23** | - | **19** | - | **17** |
| | 2,4,5-Trichlorophenol | µg/L | <0.44U | - | <0.48U | - | <0.48U | - | <0.48U |
| | 2,4,6-Trichlorophenol | µg/L | <0.56U | - | <0.61U | - | <0.61U | - | <0.61U |
| | 2,4-Dichlorophenol | µg/L | <0.47U | - | <0.51U | - | <0.51U | - | <0.51U |
| | 2,4-Dimethylphenol | µg/L | <0.46U | - | <0.5U | - | <0.5U | - | <0.5U |
| | 2,4-Dinitrophenol | µg/L | <2U | - | <2.2U | - | <2.2U | - | <2.2U |
| | 2,4-Dinitrotoluene | µg/L | <0.41U | - | <0.45U | - | <0.45U | - | <0.45U |
| | 2,6-Dinitrotoluene | µg/L | <0.37U | - | <0.4U | - | <0.4U | - | <0.4U |
| | 2-Chloronaphthalene | µg/L | <0.42U | - | <0.46U | - | <0.46U | - | <0.46U |
| | 2-Chlorophenol | µg/L | <0.49U | - | <0.53U | - | <0.53U | - | <0.53U |
| | 2-Methylnaphthalene | µg/L | <0.55U | - | <0.6U | - | <0.6U | - | <0.6U |
| | 2-Methylphenol | µg/L | <0.37U | - | <0.4U | - | <0.4U | - | <0.4U |
| | 2-Nitroaniline | µg/L | <0.39U | - | <0.42U | - | <0.42U | - | <0.42U |
| | 2-Nitrophenol | µg/L | <0.44U | - | <0.48U | - | <0.48U | - | <0.48U |
| | 3,3-Dichlorobenzidine | µg/L | <0.37U | - | <0.4U | - | <0.4U | - | <0.4U |
| | 3-Nitroaniline | µg/L | <0.44U | - | <0.48U | - | <0.48U | - | <0.48U |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2U | - | <2.2U | - | <2.2U | - | <2.2U |
| | 4-Bromophenyl phenyl ether | µg/L | <0.41U | - | <0.45U | - | <0.45U | - | <0.45U |
| | 4-Chloro-3-Methylphenol | µg/L | **0.45J** | - | <0.45U | - | <0.45U | - | **0.7J** |
| | 4-Chloroaniline | µg/L | <0.54U | - | <0.59U | - | <0.59U | - | <0.59U |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.32U | - | <0.35U | - | <0.35U | - | <0.35U |
| | 4-Methylphenol | µg/L | <0.33U | - | <0.36U | - | <0.36U | - | <0.36U |
| | 4-Nitroaniline | µg/L | <0.23U | - | <0.25U | - | <0.25U | - | <0.25U |
| | 4-Nitrophenol | µg/L | <1.4U | - | <1.5U | - | <1.5U | - | <1.5U |
| | Acenaphthene | µg/L | <0.38U | - | <0.41U | - | <0.41U | - | <0.41U |
| | Acenaphthylene | µg/L | <0.35U | - | <0.38U | - | <0.38U | - | <0.38U |
| | Anthracene | µg/L | <0.26U | - | <0.28U | - | <0.28U | - | <0.28U |
| | Benz(a)anthracene | µg/L | <0.33U | - | <0.36U | - | <0.36U | - | <0.36U |
| | Benzo(a)pyrene | µg/L | <0.43U | - | <0.47U | - | <0.47U | - | <0.47U |
| | Benzo(b)fluoranthene | µg/L | <0.31U | - | <0.34U | - | <0.34U | - | <0.34U |
| | Benzo(g,h,i)perylene | µg/L | <0.32U | - | <0.35U | - | <0.35U | - | <0.35U |
| | Benzo(k)fluoranthene | µg/L | <0.67U | - | <0.73U | - | <0.73U | - | <0.73U |
| | Benzoic acid | µg/L | - | - | <100U | - | <100U | - | <100U |
| | Benzyl alcohol | µg/L | <0.41U | - | <0.44U | - | <0.44U | - | <0.44U |
| | Bis(2-chloroethoxy) methane | µg/L | <0.32U | - | <0.35U | - | <0.35U | - | <0.35U |
| | Bis(2-chloroethyl)ether | µg/L | <0.37U | - | <0.4U | - | <0.4U | - | <0.4U |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.48U | - | <0.52U | - | <0.52U | - | <0.52U |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.7U | - | <1.8U | - | <1.8U | - | <1.8U |
| | Butyl benzyl phthalate | µg/L | <0.39U | - | <0.42U | - | <0.42U | - | <0.42U |
| | Carbazole | µg/L | <0.28U | - | <0.3U | - | <0.3U | - | <0.3U |
| | Chrysene | µg/L | <0.3U | - | <0.33U | - | <0.33U | - | <0.33U |
| | Dibenz(a,h)anthracene | µg/L | <0.39U | - | <0.42U | - | <0.42U | - | <0.42U |
| | Dibenzofuran | µg/L | <0.47U | - | <0.51U | - | <0.51U | - | <0.51U |
| | Diethyl phthalate | µg/L | **1.1J** | - | **1.2J** | - | **0.94J** | - | **0.84J** |
| | Dimethyl phthalate | µg/L | <0.33U | - | <0.36U | - | <0.36U | - | <0.36U |
| | Di-n-butyl phthalate | µg/L | <0.29U | - | <0.31U | - | <0.31U | - | <0.31U |
| | Di-n-octyl phthalate | µg/L | <0.43U | - | <0.47U | - | <0.47U | - | <0.47U |
| | Fluoranthene | µg/L | <0.37U | - | <0.4U | - | <0.4U | - | <0.4U |

**MW-21**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 5/17/2016 | 10/28/2016 | 4/25/2017 | 10/18/2017 | 5/7/2018 | 10/16/2018 | 4/22/2019 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <0.33U | - | <0.36U | - | <0.36U | - | <0.36U |
| | Hexachlorobenzene | µg/L | <0.47U | - | <0.51U | - | <0.51U | - | <0.51U |
| | Hexachlorobutadiene | µg/L | <0.63U | - | <0.68U | - | <0.68U | - | <0.68U |
| | Hexachlorocyclopentadiene | µg/L | <0.54U | - | <0.59U | - | <0.59U | - | <0.59U |
| | Hexachloroethane | µg/L | <0.54U | - | <0.59U | - | <0.59U | - | <0.59U |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.43U | - | <0.47U | - | <0.47U | - | <0.47U |
| | Isophorone | µg/L | <0.4U | - | <0.43U | - | <0.43U | - | <0.43U |
| | Naphthalene | µg/L | <0.7U | - | <0.76U | - | <0.76U | - | <0.76U |
| | Nitrobenzene | µg/L | <0.27U | - | <0.29U | - | <0.29U | - | <0.29U |
| | N-nitrosodi-n-propylamine | µg/L | <0.5U | - | <0.54U | - | <0.54U | - | <0.54U |
| | N-Nitrosodiphenylamine | µg/L | <0.47U | - | <0.51U | - | <0.51U | - | <0.51U |
| | Pentachlorophenol | µg/L | <2U | - | <2.2U | - | <2.2U | - | <2.2U |
| | Phenanthrene | µg/L | <0.41U | - | <0.44U | - | <0.44U | - | <0.44U |
| | Phenol | µg/L | <0.36U | - | <0.39U | - | <0.39U | - | <0.39U |
| | Pyrene | µg/L | <0.31U | - | <0.34U | - | <0.34U | - | <0.34U |
| | Total SVOCS | µg/L | **84** | - | **93** | - | **90** | - | **77** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **33** | **33** | **32** | **32** | **26** | **27** | **25** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **12** | **11** | **11** | **11** | **9.6** | **10** | **10** |
| | 1,2-Dichloroethane | µg/L | **0.49J** | **0.55J** | <0.21U | **0.45J** | <0.21U | **0.52J** | **0.44J** |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **8.7** | **8.3** | **7.8** | **8.8** | **6.9** | **7.4** | **8.5** |
| | 1,4-Dichlorobenzene | µg/L | **54** | **51** | **49** | **53** | **44** | **47** | **50** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | **1.5J** | **1.3J** | **1.6J** | **1.4J** | **1.3J** | **1.3J** | **1.4J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **28** | **25** | **30** | **31** | **28** | **31** | **31** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | **18** | **15** | **13** | **14** | **11** | **11** | **7.9** |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **2.5** | **3** | **2.3** | **2.5** | **1.8** | **2.1** | **1.7** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.47U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **0.46J** | **0.57J** | <0.46U | **0.53J** | <0.46U | **0.5J** | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **160** | **150** | **150** | **160** | **130** | **140** | **140** |

**MW-21**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/7/2019 | 4/29/2020 | 10/19/2020 | 4/26/2021 | 10/25/2021 | 4/20/2022 | 10/25/2022 |
| | Parameters | Units | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **161** | **169** | **161** | **134** | **129** | **119** | **112** |
| | Ammonia | mg/L | **2.5** | **3.2** | **2.9** | **2.1** | **3** | **2.7** | **2.7** |
| | Nitrate+Nitrite | mg/L | 0.027U | <0.02U | <0.02U | <0.02U | <0.05U | <0.02U | <0.02U |
| | Sulfate | mg/L | <1.5U | <1.5U | **6.1** | **13.1J+** | **17.6** | **23.3** | **29.9** |
| | Total Organic Carbon | mg/L | **1.4** | **3.8** | **1.5** | **2** | **2** | **2** | **2.2** |
| Metals | Arsenic | µg/L | **5.7J** | **6.9J** | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **5,500** | **13,900** | **7,500** | **7,500** | **9,600** | **6,700** | **5,500** |
| | Manganese | µg/L | **1,300** | **1,300** | **1,200** | **1,200** | **1,300** | **1,300** | **1,300** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | - | **5.8** | - | **5** | - | **4.4** | - |
| | 1,2-Dichlorobenzene | µg/L | - | **10** | - | **9.2** | - | **7.2** | - |
| | 1,3-Dichlorobenzene | µg/L | - | **8.4** | - | **7.4** | - | **6.2** | - |
| | 1,4-Dichlorobenzene | µg/L | - | **41** | - | **38** | - | **29** | - |
| | 1,4-Dioxane | µg/L | - | **23** | - | **17** | - | **15** | - |
| | 2,4,5-Trichlorophenol | µg/L | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | - | <0.61U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | - | <0.5U | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | - | <0.4U | - | <0.4U | - | **0.58J** | - |
| | 2-Chloronaphthalene | µg/L | - | <0.46U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | - | <0.53U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | - | <0.6U | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | - | <0.45U | - | <0.45U | - | **0.54J** | - |
| | 4-Chloroaniline | µg/L | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | - | <0.25U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | - | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | - | <0.41U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | - | <0.38U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | - | <0.28U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | - | <0.34U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | - | <0.73U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | - | <100U | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | - | <0.44U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | - | <0.52U | - | <0.52U | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | - | <1.8U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | Carbazole | µg/L | - | <0.30U | - | <0.3U | - | <0.3U | - |
| | Chrysene | µg/L | - | <0.33U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | - | **0.84J** | - | **0.64J** | - | **0.81J** | - |
| | Dimethyl phthalate | µg/L | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | - | <0.31U | - | <0.31U | - | <10U | - |
| | Di-n-octyl phthalate | µg/L | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Fluoranthene | µg/L | - | <0.40U | - | <0.4U | - | <0.4U | - |

**MW-21**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/7/2019 | 4/29/2020 | 10/19/2020 | 4/26/2021 | 10/25/2021 | 4/20/2022 | 10/25/2022 |
| | Parameters | Units | | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | - | <0.68U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | Hexachloroethane | µg/L | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Isophorone | µg/L | - | <0.43U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | - | <0.76U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | - | <0.29U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | - | <0.54U | - | <0.54U | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | - | <2.2U | - | <2.2U | - | <2.2UJ | - |
| | Phenanthrene | µg/L | - | <0.44U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | - | <0.39U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | - | <0.34U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | - | **90** | - | **78** | - | **64** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **16** | **21** | **19** | **22** | **15** | **10** | **7.8** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **11** | **9.5** | **9.4** | **11** | **9.5** | **8.2** | **6.2** |
| | 1,2-Dichloroethane | µg/L | <0.21U | **0.35J** | **0.33J** | <0.21U | **0.24J** | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **8.4** | **7.9** | **7.6** | **8.9** | **8.2** | **7.6** | **5.8** |
| | 1,4-Dichlorobenzene | µg/L | **47** | **43** | **40** | **47** | **40** | **35** | **27** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3.0U | <3.0U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | **1.4J** | **1.2J** | **1.0J** | **1.3J** | **0.85J** | **0.63J** | **0.53J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **33** | **31** | **28** | **33** | **25** | **19** | **13** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | **8.6** | **4.8J** | **4.1J** | **3.6J** | <0.32U | **2J** | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35UJ | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **2** | **1.7** | **1.7** | **2.4** | **1.6** | **1.4** | **1.4** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | **0.71J** | **0.72J** | **0.67J** | **0.64J** |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9UJ | <0.90U | <0.90U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.90U | <0.90U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **130** | **130** | **120** | **130** | **110** | **85** | **63** |

**MW-21**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/24/2023 | 10/30/2023 | 4/30/2024 | 10/28/2024 | 4/21/2025 | 10/22/2025 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **109** | **119** | **95.7J-** | **102** | **99.1** | **121** |
| | Ammonia | mg/L | **2.6** | **2.9** | **3** | **3.3** | **3.1** | **3.4** |
| | Nitrate+Nitrite | mg/L | <0.02UJ | <0.05U | <0.02U | <0.02U | <0.02U | <0.02U |
| | Sulfate | mg/L | **33.3** | **29.8** | **22.3** | **28.4** | **27.4** | **23.6** |
| | Total Organic Carbon | mg/L | **2.2** | **1.0** | **1.7** | **1.4** | **2.3** | **0.85J** |
| Metals | Arsenic | µg/L | <5.6U | **6.3J** | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **4,800** | **4,900** | **6,700** | **5,800** | **3,800** | **2,300** |
| | Manganese | µg/L | **1,400** | **1,400** | **1,400** | **1,400** | **1,500** | **1,400** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **3.4** | - | **3.2** | - | **3.7J+** | - |
| | 1,2-Dichlorobenzene | µg/L | **5.3** | - | **4.7** | - | **3.8** | - |
| | 1,3-Dichlorobenzene | µg/L | **4.8** | - | **4.6** | - | **3.8** | - |
| | 1,4-Dichlorobenzene | µg/L | **22** | - | **19** | - | **15** | - |
| | 1,4-Dioxane | µg/L | **13** | - | **18** | - | **13** | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | <0.5U | - | <0.50U | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | <2.2UJ | - | <2.2UJ | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | <0.4U | - | <0.40U | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | <0.6U | - | <0.60U | - |
| | 2-Methylphenol | µg/L | <0.4U | - | <0.4U | - | <0.40U | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | - | <0.4U | - | <0.40U | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | <0.48U | - | <0.48UJ | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | **0.73J** | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | <0.41U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | <0.38U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | <0.28U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | <0.35UJ | - | <0.35UJ | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | <100U | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | <0.44U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | <0.4U | - | <0.40U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | <0.52U | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | Carbazole | µg/L | <0.3U | - | <0.3U | - | <0.30UJ | - |
| | Chrysene | µg/L | <0.33U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | **0.31J** | - | **0.28J** | - | **0.24J** | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | **0.5J** | - | **0.31J** | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | <0.47U | - | <0.47U | - |
| | Fluoranthene | µg/L | <0.4U | - | <0.4U | - | <0.40U | - |

**MW-21**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/24/2023 | 10/30/2023 | 4/30/2024 | 10/28/2024 | 4/21/2025 | 10/22/2025 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | <0.59UJ | - | <0.59UJ | - |
| | Hexachloroethane | µg/L | <0.59U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | <0.47UJ | - | <0.47UJ | - |
| | Isophorone | µg/L | <0.43U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | <0.76U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.29U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | <0.54U | - | <0.54UJ | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - |
| | Phenanthrene | µg/L | <0.44U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | <0.39U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | **50** | - | **51** | - | **40** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **6.2** | **4.4J** | **5** | **4.3J** | **5** | **4.3J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29UJ | <0.29U | <0.29UJ | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **6.5** | **5.3** | **5.4** | **4.7J** | **5.4** | **4.7J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **6.2** | **4.9J** | **5.4** | **4.4J** | **5.4** | **4.4J** |
| | 1,4-Dichlorobenzene | µg/L | **29** | **21** | **25** | **19** | **25** | **19** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | **3.6J** | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | **0.44J** | **0.63J** | **0.57J** | **0.63J** | **0.57J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27UJ | <0.27U | <0.27UJ |
| | Chlorobenzene | µg/L | **12** | **7.8** | **8.6** | **7.4** | **8.6** | **7.4** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | **0.48J** | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | **1.2** | **1** | **1.1** | **1.1** | **1.1** | **1.1** |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **0.9J** | **0.64J** | **0.9J** | **0.86J** | **0.9J** | **0.86J** |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9UJ | <0.9U | <0.9UJ | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9UJ | <0.9U | <0.9UJ | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **62** | **50** | **53** | **43** | **53** | **43** |

**MW-22**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/17/2013 | 10/22/2013 | 4/22/2014 | 10/21/2014 | 4/21/2015 | 10/20/2015 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **65.3** | **95J** | **93.1** | **88.2** | **99.5** | **55.4** |
| | Ammonia | mg/L | **3** | **3.5** | **3.6** | **3.4** | **2.8** | **3.2** |
| | Nitrate+Nitrite | mg/L | <0.02U | <0.02U | <0.02UJ | <0.02UJ | **0.057** | <0.02U |
| | Sulfate | mg/L | **7.1** | <7.9U | **6.1J** | **3.1J** | <1.5UJ | **2.2J** |
| | Total Organic Carbon | mg/L | **0.54J** | **1.2** | **1.2** | **1.4** | **1.4** | **1** |
| Metals | Arsenic | µg/L | **37** | **48** | **39** | **37** | **39** | **38** |
| | Iron | µg/L | **9,900** | **12,200** | **11,000** | **10,200** | **12,500** | **11,900** |
| | Manganese | µg/L | **9,000** | **11,300** | **13,200** | **10,700** | **14,100J** | **14,100** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **1.5J** | **1.6J** | **1.5J** | - | **1.4J** | - |
| | 1,2-Dichlorobenzene | µg/L | **2.2** | **1.9** | **2.8** | - | **3.5** | - |
| | 1,3-Dichlorobenzene | µg/L | **2** | **1.4J** | **2.1** | - | **2.6** | - |
| | 1,4-Dichlorobenzene | µg/L | **9.2** | **8.2** | **13** | - | **16** | - |
| | 1,4-Dioxane | µg/L | <1U | **8.7J** | **13** | - | **8.1J** | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.46U | <0.48U | <0.45U | - | <0.43U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.58U | <0.61U | <0.57U | - | <0.55U | - |
| | 2,4-Dichlorophenol | µg/L | <0.48U | <0.51U | <0.48U | - | <0.46U | - |
| | 2,4-Dimethylphenol | µg/L | <0.47U | <0.5U | <0.47U | - | <0.45U | - |
| | 2,4-Dinitrophenol | µg/L | <2.1U | <2.2U | <2.1U | - | <2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.42U | <0.45U | <0.42U | - | <0.4U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.38U | <0.4U | <0.37U | - | <0.36U | - |
| | 2-Chloronaphthalene | µg/L | <0.44U | <0.46U | <0.43U | - | <0.41U | - |
| | 2-Chlorophenol | µg/L | <0.5U | <0.53U | <0.49U | - | <0.48U | - |
| | 2-Methylnaphthalene | µg/L | <0.57U | <0.6U | <0.56U | - | <0.54U | - |
| | 2-Methylphenol | µg/L | <0.38U | <0.4U | <0.37U | - | <0.36U | - |
| | 2-Nitroaniline | µg/L | <0.4U | <0.42U | <0.39U | - | <0.38U | - |
| | 2-Nitrophenol | µg/L | <0.46U | <0.48U | <0.45U | - | <0.43U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.38U | <0.4U | <0.37U | - | <0.36U | - |
| | 3-Nitroaniline | µg/L | <0.46U | <0.48U | <0.45UJ | - | <0.43U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.1U | <2.2U | <2.1U | - | <2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.43U | <0.45U | <0.42U | - | <0.4U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.43U | <0.45U | <0.42U | - | <0.4U | - |
| | 4-Chloroaniline | µg/L | <0.56U | <0.59U | <0.55UJ | - | <0.53U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.33U | <0.35U | <0.33U | - | <0.31U | - |
| | 4-Methylphenol | µg/L | <0.34U | <0.36U | <0.34U | - | <0.32U | - |
| | 4-Nitroaniline | µg/L | <0.24U | <0.25U | <0.23U | - | <0.22UJ | - |
| | 4-Nitrophenol | µg/L | <1.4U | <1.5U | <1.4U | - | <1.4U | - |
| | Acenaphthene | µg/L | <0.39U | <0.41U | <0.38U | - | <0.37U | - |
| | Acenaphthylene | µg/L | <0.36U | <0.38U | <0.35U | - | <0.34U | - |
| | Anthracene | µg/L | <0.27U | <0.28U | <0.26U | - | <0.25U | - |
| | Benz(a)anthracene | µg/L | <0.34U | <0.36U | <0.34U | - | <0.32U | - |
| | Benzo(a)pyrene | µg/L | <0.45U | <0.47U | <0.44U | - | <0.42U | - |
| | Benzo(b)fluoranthene | µg/L | <0.32U | <0.34U | <0.32U | - | <0.31U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.33U | <0.35U | <0.33UJ | - | <0.31U | - |
| | Benzo(k)fluoranthene | µg/L | <0.69U | <0.73U | <0.68U | - | <0.66U | - |
| | Benzoic acid | µg/L | <95U | <100U | <93U | - | <90U | - |
| | Benzyl alcohol | µg/L | <0.42U | <7U | <2.1U | - | <6.3U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.33U | <0.35U | <0.33U | - | <0.31U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.38U | <0.4U | <0.37U | - | <0.36U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.49U | <0.52U | <0.49U | - | <0.47U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.7U | <1.8U | <1.7U | - | <1.6U | - |
| | Butyl benzyl phthalate | µg/L | <0.4U | <0.42U | <0.39U | - | <9U | - |
| | Carbazole | µg/L | <0.28U | <0.3U | <0.28U | - | <0.27U | - |
| | Chrysene | µg/L | <0.31U | <0.33U | <0.31U | - | <0.3U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.4U | <0.42U | <0.39U | - | <0.38U | - |
| | Dibenzofuran | µg/L | <0.48U | <0.51U | <0.48U | - | <0.46U | - |
| | Diethyl phthalate | µg/L | <0.21U | **0.28J** | **0.31J** | - | <0.2U | - |
| | Dimethyl phthalate | µg/L | <0.34U | <0.36U | <0.34U | - | <0.32U | - |
| | Di-n-butyl phthalate | µg/L | <0.29U | <0.31U | <0.29U | - | <0.28U | - |
| | Di-n-octyl phthalate | µg/L | <0.45U | <0.47U | <0.44U | - | <0.42U | - |
| | Fluoranthene | µg/L | <0.38U | <0.4U | <0.37U | - | <0.36U | - |

**MW-22**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/17/2013 | 10/22/2013 | 4/22/2014 | 10/21/2014 | 4/21/2015 | 10/20/2015 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <0.34U | <0.36U | <0.34U | - | <0.32U | - |
| | Hexachlorobenzene | µg/L | <0.48U | <0.51U | <0.48U | - | <0.46U | - |
| | Hexachlorobutadiene | µg/L | <0.65U | <0.68U | <0.64U | - | <0.61U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.56U | <0.59U | <0.55U | - | <0.53U | - |
| | Hexachloroethane | µg/L | <0.56U | <0.59U | <0.55U | - | <0.53U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.45U | <0.47U | <0.44U | - | <0.42U | - |
| | Isophorone | µg/L | <0.41U | <0.43U | <0.4U | - | <0.39U | - |
| | Naphthalene | µg/L | <0.72U | <0.76U | <0.71U | - | <0.68U | - |
| | Nitrobenzene | µg/L | <0.28U | <0.29U | <0.27U | - | <0.26U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.51U | <0.54U | <0.5U | - | <0.49U | - |
| | N-Nitrosodiphenylamine | µg/L | <0.48U | <0.51U | <0.48U | - | <0.46U | - |
| | Pentachlorophenol | µg/L | <2.1U | <2.2U | <2.1U | - | <2U | - |
| | Phenanthrene | µg/L | <0.42U | <0.44U | <0.41U | - | <0.4U | - |
| | Phenol | µg/L | <0.37U | <0.39U | <0.36U | - | <0.35U | - |
| | Pyrene | µg/L | <0.32U | <0.34U | <0.32U | - | <0.31U | - |
| | Total SVOCS | µg/L | **15** | **23** | **33** | - | **32** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82UJ |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **7.5** | **16** | **13** | **14** | **22** | **19** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **2.6J** | **3.3J** | **3.3J** | **3.7J** | **4.6J** | **5** |
| | 1,2-Dichloroethane | µg/L | <0.21U | **0.26J** | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **2.2J** | **2.7J** | **2.4J** | **2.5J** | **3.4J** | **3.8J** |
| | 1,4-Dichlorobenzene | µg/L | **12** | **14** | **15** | **19** | **22** | **24** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | **8.4J** | <3U |
| | Benzene | µg/L | **1.3J** | **2.1J** | **1.1J** | **1.9J** | **1.6J** | **1.5J** |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **4.3J** | **9.8** | **12** | **13** | **18** | **15** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | **2.1J** | **5.1** | **2.6J** | **0.78J** | **0.89J** | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **0.57J** | **0.86J** | **0.64J** | **0.7J** | **0.53J** | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9UJ | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **33** | **55** | **51** | **56** | **82** | **69** |

**MW-22**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 5/16/2016 | 10/28/2016 | 4/25/2017 | 10/18/2017 | 5/7/2018 | 10/16/2018 | 4/22/2019 | 10/7/2019 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | **85.8** | **90.2** | **75.2J+** | **79.5** | **46.9** | **37.7** | **43.7** | **43** |
| | Ammonia | mg/L | **3** | **3.3** | **3.1** | **2.6** | **2.8** | **2.6** | **2.6** | **2.2** |
| | Nitrate+Nitrite | mg/L | <0.02U | **0.031J** | <0.02U | <0.02U | **0.025J** | <0.02U | <0.02U | **0.081** |
| | Sulfate | mg/L | <5U | **6.3** | **36.8** | **32.6** | **31.3** | **31** | **36.8** | **31.2** |
| | Total Organic Carbon | mg/L | **1.7** | **1.7** | **1.3** | **1.7** | **1.4** | **1.7** | **1.6J** | **1** |
| Metals | Arsenic | µg/L | **38** | **38** | **41** | **36** | **32** | **35** | **30** | **30** |
| | Iron | µg/L | **13,000** | **12,800** | **11,600** | **10,300** | **9,600** | **9,900** | **9,000** | **7,800** |
| | Manganese | µg/L | **16,600** | **15,600** | **16,100** | **13,700** | **13,600** | **12,600** | **13,400** | **10,900** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **1.9** | - | **1.7J** | - | **1.5J** | - | **1.3J** | - |
| | 1,2-Dichlorobenzene | µg/L | **4.3** | - | **3.5** | - | **2.3** | - | **1.1J** | - |
| | 1,3-Dichlorobenzene | µg/L | **3.6** | - | **3.2** | - | **2.6** | - | **1.6J** | - |
| | 1,4-Dichlorobenzene | µg/L | **20** | - | **16** | - | **9.8** | - | **4.8** | - |
| | 1,4-Dioxane | µg/L | **8.4J** | - | **7.6J** | - | **6.3J** | - | **7.9J** | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.45U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.57U | - | <0.61U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.48U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <0.47U | - | <0.5U | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | <2.1U | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.42U | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.38U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | <0.43U | - | <0.46U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.5U | - | <0.53U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.56U | - | <0.6U | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | <0.38U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | <0.4U | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.45U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.38U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | <0.45U | - | <0.48U | - | <0.48U | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.1U | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.42U | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.42U | - | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | <0.56U | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.33U | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | <0.34U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.24U | - | <0.25U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.4U | - | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | <0.39U | - | <0.41U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | <0.36U | - | <0.38U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | <0.26U | - | <0.28U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.34U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.44U | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.32U | - | <0.34U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.33U | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <0.69U | - | <0.73U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | - | - | <100U | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | <6.6U | - | <0.44U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.33U | - | <0.35U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.38U | - | <0.4U | - | <0.4U | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.49U | - | <0.52U | - | <0.52U | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.7U | - | <1.8U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <0.4U | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | Carbazole | µg/L | <0.28U | - | <0.3U | - | <0.3U | - | <0.3U | - |
| | Chrysene | µg/L | <0.31U | - | <0.33U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.4U | - | <0.42U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.48U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | **0.25J** | - | **0.22J** | - | <0.22U | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | <0.34U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | <0.29U | - | <0.31U | - | <0.31U | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | <0.44U | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Fluoranthene | µg/L | <0.38U | - | <0.4U | - | <0.4U | - | <0.4U | - |

**MW-22**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 5/16/2016 | 10/28/2016 | 4/25/2017 | 10/18/2017 | 5/7/2018 | 10/16/2018 | 4/22/2019 | 10/7/2019 |
| | Parameters | Units | | | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <0.34U | - | <0.36U | - | <0.36U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | <0.48U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.64U | - | <0.68U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.56U | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | Hexachloroethane | µg/L | <0.56U | - | <0.59U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.44U | - | <0.47U | - | <0.47U | - | <0.47U | - |
| | Isophorone | µg/L | <0.4U | - | <0.43U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | <0.72U | - | <0.76U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.27U | - | <0.29U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.51U | - | <0.54U | - | <0.54U | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | <0.48U | - | <0.51U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <2.1U | - | <2.2U | - | <2.2U | - | <2.2U | - |
| | Phenanthrene | µg/L | <0.41U | - | <0.44U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | <0.37U | - | <0.39U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | <0.32U | - | <0.34U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | **39** | - | **33** | - | **23** | - | **17** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **23** | **12** | **5** | **3.4J** | **2.3J** | **1.8J** | **1.5J** | **0.9J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **5.3** | **4.5J** | **3.9J** | **2.9J** | **2.4J** | **2.1J** | **1.4J** | **1.2J** |
| | 1,2-Dichloroethane | µg/L | <0.21UJ | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **4.5J** | **3.6J** | **4J** | **3.2J** | **2.6J** | **2.4J** | **2.2J** | **1.8J** |
| | 1,4-Dichlorobenzene | µg/L | **26** | **20** | **19** | **13** | **11** | **9.6** | **6.7** | **5.1** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | **5J** | <3U | <3U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | **1.2J** | **0.57J** | **0.54J** | **0.43J** | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **17** | **11** | **7** | **4.2J** | **2.7J** | **2.3J** | **1.3J** | **1.1J** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35UJ |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **0.75J** | **0.68J** | **1.1J** | **1.6J** | **1.9J** | **1.9J** | **1J** | **0.77J** |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9UJ |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **83** | **53** | **41** | **29** | **23** | **21** | **15** | **11** |

**MW-22**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/29/2020 | 10/19/2020 | 4/26/2021 | 10/25/2021 | 4/20/2022 | 10/25/2022 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **41.6** | **44.2** | **48.7** | **47.9** | **54.1** | **56.1** |
| | Ammonia | mg/L | **2** | **2.1** | **1.7** | **2.4** | **2.2J** | **2** |
| | Nitrate+Nitrite | mg/L | **0.032J** | **0.033J** | **0.028J** | <0.059U | <0.02U | <0.02U |
| | Sulfate | mg/L | **21.4** | **17.6** | **17.5** | **15.6** | **17.6** | **17** |
| | Total Organic Carbon | mg/L | **1.6** | **1.2** | **1.4** | **1.5** | **1.2** | **1.2** |
| Metals | Arsenic | µg/L | **32** | **29** | **29** | **31** | **31** | **31** |
| | Iron | µg/L | **7,400** | **7,900** | **9,300** | **12,400** | **9,400** | **8,600** |
| | Manganese | µg/L | **8,500** | **8,600** | **10,800** | **12,200** | **12,800** | **11,100** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **1.6J** | - | **1.5J** | - | **1.4J** | - |
| | 1,2-Dichlorobenzene | µg/L | **0.75J** | - | **0.75J** | - | **0.84J** | - |
| | 1,3-Dichlorobenzene | µg/L | **1.2J** | - | **1.1J** | - | **1J** | - |
| | 1,4-Dichlorobenzene | µg/L | **3.3J** | - | **3.4J** | - | **3.9J** | - |
| | 1,4-Dioxane | µg/L | **2.3J** | - | **8.8J** | - | **8.4J** | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | <0.5U | - | <0.5U | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | <0.6U | - | <0.6U | - |
| | 2-Methylphenol | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | <0.48U | - | <0.48U | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | <0.41U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | <0.38U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | <0.28U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | <0.35U | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | <100U | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | <0.44U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | <0.4U | - | <0.4U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | <0.52U | - | <0.52U | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | Carbazole | µg/L | <0.30U | - | <0.3U | - | <0.3U | - |
| | Chrysene | µg/L | <0.33U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | <0.22U | - | <0.22U | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | <0.31U | - | <0.31U | - | <10U | - |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | <0.47U | - | <0.47U | - |
| | Fluoranthene | µg/L | <0.40U | - | <0.4U | - | <0.4U | - |

**MW-22**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/29/2020 | 10/19/2020 | 4/26/2021 | 10/25/2021 | 4/20/2022 | 10/25/2022 |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | <0.59U | - | <0.59U | - |
| | Hexachloroethane | µg/L | <0.59U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47U | - |
| | Isophorone | µg/L | <0.43U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | <0.76U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.29U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | <0.54U | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <2.2U | - | <2.2U | - | <2.2UJ | - |
| | Phenanthrene | µg/L | <0.44U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | <0.39U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | **9.2** | - | **16** | - | **16** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **0.5J** | **1.7J** | **2.8J** | **3.1J** | **1.9J** | **1.5J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **0.87J** | <0.79U | **1J** | **1J** | **1.1J** | **1.1J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **1.4J** | **1.1J** | **1.4J** | **1.4J** | **1.6J** | **1.4J** |
| | 1,4-Dichlorobenzene | µg/L | **4.3J** | **3.4J** | **4.8J** | **4.8J** | **6.2** | **5.3** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3.0U | <3.0U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | **0.65J** | **0.47J** | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **0.88J** | **0.92J** | **2.5J** | **4.4J** | **5.9** | **4J** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | **0.49J** | **0.97J** | **0.78J** | **0.88J** | **0.73J** |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.90U | <0.90U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.90U | <0.90U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **8.0** | **7.7** | **14** | **17** | **19** | **15** |

**MW-22**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/24/2023 | 10/30/2023 | 4/30/2024 | 10/28/2024 | ######### | ######### |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | **53.4** | **55.8** | **55.4J-** | **36.8** | **42.7** | **51.8** |
| | Ammonia | mg/L | **1.9** | **2.0** | **1.1** | **1.2** | **1.6** | **1.6** |
| | Nitrate+Nitrite | mg/L | <0.02U | **0.053J+** | **0.027J** | <0.02U | **0.029J** | <0.02UJ |
| | Sulfate | mg/L | **12.3** | **7.5** | **8.1** | **10.2** | **10.8** | **8.4** |
| | Total Organic Carbon | mg/L | **1.6** | **0.58J** | **1** | **0.91J** | <0.43U | <0.43U |
| Metals | Arsenic | µg/L | **29** | **32** | **33** | **27** | **26** | **23** |
| | Iron | µg/L | **8,500** | **9,500** | **9,200** | **7,800** | **7,700** | **8,400** |
| | Manganese | µg/L | **10,900** | **12,400** | **12,200** | **10,700** | **10,500** | **9,900** |
| Semivolatile Organics | 1,2,4-Trichlorobenzene | µg/L | **1.7J** | - | **1.7J** | - | **1.2J** | - |
| | 1,2-Dichlorobenzene | µg/L | **0.9J** | - | **1.2J** | - | **0.85J** | - |
| | 1,3-Dichlorobenzene | µg/L | **1.4J** | - | **1.5J** | - | **1.0J** | - |
| | 1,4-Dichlorobenzene | µg/L | **4.7** | - | **4.8** | - | **3.4J** | - |
| | 1,4-Dioxane | µg/L | **4.1J** | - | **7.7J** | - | **1.9J** | - |
| | 2,4,5-Trichlorophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - |
| | 2,4,6-Trichlorophenol | µg/L | <0.61U | - | <0.61U | - | <0.61U | - |
| | 2,4-Dichlorophenol | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | 2,4-Dimethylphenol | µg/L | <0.5U | - | <0.5U | - | <0.50U | - |
| | 2,4-Dinitrophenol | µg/L | <2.2U | - | <2.2UJ | - | <2.2U | - |
| | 2,4-Dinitrotoluene | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 2,6-Dinitrotoluene | µg/L | <0.4U | - | <0.4U | - | <0.40U | - |
| | 2-Chloronaphthalene | µg/L | <0.46U | - | <0.46U | - | <0.46U | - |
| | 2-Chlorophenol | µg/L | <0.53U | - | <0.53U | - | <0.53U | - |
| | 2-Methylnaphthalene | µg/L | <0.6U | - | <0.6U | - | <0.60U | - |
| | 2-Methylphenol | µg/L | <0.4U | - | <0.4U | - | <0.40U | - |
| | 2-Nitroaniline | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | 2-Nitrophenol | µg/L | <0.48U | - | <0.48U | - | <0.48U | - |
| | 3,3-Dichlorobenzidine | µg/L | <0.4U | - | <0.4U | - | <0.40U | - |
| | 3-Nitroaniline | µg/L | <0.48U | - | <0.48U | - | <0.48UJ | - |
| | 4,6-Dinitro-2-methylphenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - |
| | 4-Bromophenyl phenyl ether | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloro-3-Methylphenol | µg/L | <0.45U | - | <0.45U | - | <0.45U | - |
| | 4-Chloroaniline | µg/L | <0.59U | - | <0.59U | - | <0.59U | - |
| | 4-Chlorophenyl phenyl ether | µg/L | <0.35U | - | <0.35U | - | <0.35U | - |
| | 4-Methylphenol | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | 4-Nitroaniline | µg/L | <0.25U | - | <0.25U | - | <0.25U | - |
| | 4-Nitrophenol | µg/L | <1.5U | - | <1.5U | - | <1.5U | - |
| | Acenaphthene | µg/L | <0.41U | - | <0.41U | - | <0.41U | - |
| | Acenaphthylene | µg/L | <0.38U | - | <0.38U | - | <0.38U | - |
| | Anthracene | µg/L | <0.28U | - | <0.28U | - | <0.28U | - |
| | Benz(a)anthracene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Benzo(a)pyrene | µg/L | <0.47U | - | <0.47U | - | <0.47U | - |
| | Benzo(b)fluoranthene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - |
| | Benzo(g,h,i)perylene | µg/L | <0.35U | - | <0.35UJ | - | <0.35U | - |
| | Benzo(k)fluoranthene | µg/L | <0.73U | - | <0.73U | - | <0.73U | - |
| | Benzoic acid | µg/L | <100U | - | <100U | - | <100U | - |
| | Benzyl alcohol | µg/L | <0.44U | - | <0.44U | - | <0.44U | - |
| | Bis(2-chloroethoxy) methane | µg/L | <0.35U | - | <0.35U | - | <0.35U | - |
| | Bis(2-chloroethyl)ether | µg/L | <0.4U | - | <0.4U | - | <0.40U | - |
| | Bis(2-chloroisopropyl) ether | µg/L | <0.52U | - | <0.52U | - | <0.52UJ | - |
| | bis(2-Ethylhexyl)Phthalate | µg/L | <1.8U | - | <1.8U | - | <1.8U | - |
| | Butyl benzyl phthalate | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | Carbazole | µg/L | <0.3U | - | <0.3U | - | <0.30UJ | - |
| | Chrysene | µg/L | <0.33U | - | <0.33U | - | <0.33U | - |
| | Dibenz(a,h)anthracene | µg/L | <0.42U | - | <0.42U | - | <0.42U | - |
| | Dibenzofuran | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Diethyl phthalate | µg/L | <0.22U | - | <0.22U | - | <0.22U | - |
| | Dimethyl phthalate | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Di-n-butyl phthalate | µg/L | **0.32J** | - | <0.31U | - | <0.31U | - |
| | Di-n-octyl phthalate | µg/L | <0.47U | - | <0.47U | - | <0.47U | - |
| | Fluoranthene | µg/L | <0.4U | - | <0.4U | - | <0.40U | - |

**MW-22**
**HISTORICAL GROUNDWATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 | MW-22 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/24/2023 | 10/30/2023 | 4/30/2024 | 10/28/2024 | ######## | ######### |
| | Parameters | Units | | | | | | |
| Semivolatile Organics | Fluorene | µg/L | <0.36U | - | <0.36U | - | <0.36U | - |
| | Hexachlorobenzene | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Hexachlorobutadiene | µg/L | <0.68U | - | <0.68U | - | <0.68U | - |
| | Hexachlorocyclopentadiene | µg/L | <0.59U | - | <0.59UJ | - | <0.59U | - |
| | Hexachloroethane | µg/L | <0.59U | - | <0.59U | - | <0.59U | - |
| | Indeno(1,2,3-c,d)pyrene | µg/L | <0.47U | - | <0.47UJ | - | <0.47U | - |
| | Isophorone | µg/L | <0.43U | - | <0.43U | - | <0.43U | - |
| | Naphthalene | µg/L | <0.76U | - | <0.76U | - | <0.76U | - |
| | Nitrobenzene | µg/L | <0.29U | - | <0.29U | - | <0.29U | - |
| | N-nitrosodi-n-propylamine | µg/L | <0.54U | - | <0.54U | - | <0.54U | - |
| | N-Nitrosodiphenylamine | µg/L | <0.51U | - | <0.51U | - | <0.51U | - |
| | Pentachlorophenol | µg/L | <2.2U | - | <2.2U | - | <2.2U | - |
| | Phenanthrene | µg/L | <0.44U | - | <0.44U | - | <0.44U | - |
| | Phenol | µg/L | <0.39U | - | <0.39U | - | <0.39U | - |
| | Pyrene | µg/L | <0.34U | - | <0.34U | - | <0.34U | - |
| | Total SVOCS | µg/L | **14** | - | **17** | - | **8.4** | - |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | **1.7J** | **2.9J** | **2.1J** | **1.6J** | **1.1J** | **1.6J** |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29UJ | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | **1.1J** | **0.98J** | **1.5J** | **1.5J** | **1.4J** | **1J** |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | **1.6J** | **1.4J** | **2J** | **1.7J** | **1.7J** | **1.3J** |
| | 1,4-Dichlorobenzene | µg/L | **5.9** | **4.5J** | **6.8** | **6** | **5.3** | **4.2J** |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | **0.68J** | **0.44J** | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27UJ | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | **4.5J** | **6.9** | **10** | **8.5** | **6.3** | **6** |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | **0.87J** | **0.69J** | **0.63J** | **0.57J** | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9UJ | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | **16** | **19** | **24** | **20** | **16** | **15** |

**SW-12**
**HISTORICAL SURFACE WATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | SW-12 | SW-12 | SW-12 | SW-12 | SW-12 | SW-12 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 7/24/2008 | 10/22/2008 | 4/27/2009 | 7/17/2009 | 10/29/2009 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | - | - | - | - | - | <5U |
| | Hardness | mg/L | - | - | - | - | - | **28** |
| | TDS | mg/L | - | - | - | - | - | **51** |
| | TSS | mg/L | <4U | **66.4** | <4U | <4U | <4U | **28** |
| Metals | Arsenic | µg/L | <4U | <4U | <4U | <3.7U | <5.6U | <5.6U |
| | Iron | µg/L | **412** | **2,680** | **156J** | **291** | **331** | **1,360** |
| | Manganese | µg/L | **133** | **147** | **80.1J** | **170** | **141** | **175J** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | <5U | <5U | <0.26U | <0.26U | <0.26U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <5U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <5U | <5U | <5U | <0.75U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <5U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <5U | <5U | <5U | <0.2U | <0.2U | <0.2U |
| | 1,2-Dichloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <5U | <0.14U | <0.32U | <0.33U |
| | 1,3-Dichlorobenzene | µg/L | <5U | <5U | <5U | <0.16U | <0.36U | <0.36U |
| | 1,4-Dichlorobenzene | µg/L | <5U | <5U | <5U | <0.16U | <0.39U | <0.39U |
| | 2-Butanone | µg/L | <5U | <5U | <5U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <5U | <5U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <5U | <0.91U | <0.91U | <0.91U |
| | Acetone | µg/L | <1.5U | <10U | <10U | <1.3U | <1.3U | <1.3U |
| | Benzene | µg/L | <5U | <5U | <5U | <0.16U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <5U | <5U | <5U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <5U | <5U | <5U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <5U | <5U | <5U | <0.28U | <0.28U | <0.28U |
| | Carbon Disulfide | µg/L | <5U | <5U | **0.32J** | **1.2J** | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <5U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U |
| | Chlorodibromomethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <5U | <5U | <5U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <5U | <5U | <5U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.16U | <0.38U | <0.38U |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <5U | <5U | <5U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <5U | <5U | <5U | <0.18U | <0.18U | <0.18U |
| | Styrene | µg/L | <5U | <5U | <5U | <0.18U | <0.18U | <0.18U |
| | Trichloroethene | µg/L | <5U | <5U | <5U | <0.18U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <5U | <5U | <5U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.13U | <0.42U | <0.42U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <5U | <5U | <5U | <0.24U | <0.24U | <0.24U |
| | Total Xylenes | µg/L | <5U | <5U | <5U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | ND | ND | **0.32** | **1.2** | ND | ND |

**SW-12**
**HISTORICAL SURFACE WATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | SW-12 | SW-12 | SW-12 | SW-12 | SW-12 | SW-12 | SW-12 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 5/6/2010 | 7/22/2010 | 10/28/2010 | 10/19/2011 | 11/20/2012 | 10/21/2013 | 10/22/2014 |
| | **Parameters** | **Units** | | | | | | | |
| General Chemistry | Alkalinity | mg/L | - | - | - | - | - | - | - |
| | Hardness | mg/L | - | - | - | - | - | - | - |
| | TDS | mg/L | - | - | - | - | - | - | - |
| | TSS | mg/L | <4U | <4U | <4U | <4U | <4U | <4U | - |
| Metals | Arsenic | µg/L | <10U | <10U | <10U | <10U | <10U | <5.6U | <5.6U |
| | Iron | µg/L | **346** | **278** | **182** | **180** | **170** | **82J** | **190** |
| | Manganese | µg/L | **126** | **79.6** | **23.1** | **47** | **75** | **32** | **140** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | <5U | <5U | <5U | <5U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <5U | <5U | <5U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <5U | <5U | <5U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <5U | <5U | <5U | <5U | <5U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <5U | <5U | <5U | <0.29U | <0.29UJ |
| | 1,2-Dichlorobenzene | µg/L | <5U | <5U | <5U | <5U | <5U | <0.79U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <5U | <5U | <5U | <5U | <5U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <5U | <5U | <5U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <5U | <5U | <5U | <5U | <5U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <5U | <5U | <5U | <5U | <5U | <0.84U | <0.84U |
| | 2-Butanone | µg/L | <5U | <5U | <5U | <5U | <5U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <5U | <5U | <5U | <5U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <5U | <5U | <5U | <2.1U | <2.1U |
| | Acetone | µg/L | <10U | <10U | <10U | <10U | <10U | <3U | <3U |
| | Benzene | µg/L | <5U | <5U | <5U | <5U | <5U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <5U | <5U | <5U | <5U | <5U | <0.39U | <0.39U |
| | Bromoform | µg/L | <5U | <5U | <5U | <5U | <5U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <5U | <5U | <5U | <5U | <5U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <5U | <5U | <5U | <5U | <5U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <5U | <5U | <5U | <0.27U | <0.27UJ |
| | Chlorobenzene | µg/L | <5U | <5U | <5U | <5U | <5U | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <5U | <5U | <5U | <5U | <5U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <5U | <5U | <5U | <5U | <5U | <0.32U | <0.32U |
| | Chloroform | µg/L | <5U | <5U | <5U | <5U | <5U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <5U | <5U | <5U | <5U | <5U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <1U | <1U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <5U | <5U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <5U | <5U | <5U | <5U | <5U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <5U | <5U | <5U | <5U | <5U | <0.74U | <0.74U |
| | Styrene | µg/L | <5U | <5U | <5U | <5U | <5U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <5U | <5U | <5U | <5U | <5U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <5U | <5U | <5U | <5U | <5U | <0.36U | <0.36U |
| | Toluene | µg/L | <5U | <5U | <5U | <5U | <5U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <1U | <1U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <5U | <5U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <5U | <5U | <5U | <5U | <5U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <5U | <5U | <5U | <5U | <5U | <0.66U | <0.66U |
| | Total VOCS | µg/L | ND | ND | ND | ND | ND | ND | ND |

**SW-12**
**HISTORICAL SURFACE WATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | SW-12 | SW-12 | SW-12 | SW-12 | SW-12 | SW-12 |
|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/20/2015 | 10/26/2016 | 10/18/2017 | 10/16/2018 | 10/8/2019 | 10/21/2020 |
| | Parameters | Units | | | | | | |
| General Chemistry | Alkalinity | mg/L | - | - | - | - | - | - |
| | Hardness | mg/L | - | - | - | - | - | - |
| | TDS | mg/L | - | - | - | - | - | - |
| | TSS | mg/L | <4UJ | <4U | <4U | <4U | <4U | <4U |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **94J** | **180** | **110J** | **220** | **190** | **120J** |
| | Manganese | µg/L | **33** | **47** | **31** | **63** | **61** | **65J** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | <0.79U | <0.79U | <0.79U | <0.79U | <0.21U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21UJ | <0.21U | <0.21U | <0.21U | <0.72U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U | <0.79U |
| | 1,3-Dichlorobenzene | µg/L | <0.78U | <0.78U | <0.78U | <0.78U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <0.84U | <0.84U | <0.84U | <0.84U | <0.84U | <0.84U |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U | <3.0U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36UJ | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37UJ | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.90U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | ND | ND | ND | ND | ND | ND |

**SW-12**
**HISTORICAL SURFACE WATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | SW-12 | SW-12 | SW-12 | SW-12 | SW-12 |
|---|---|---|---|---|---|---|---|
| | Sample Date | | 12/22/2021 | 10/25/2022 | 10/31/2023 | 10/29/2024 | 10/23/2025 |
| | **Parameters** | **Units** | | | | | |
| General Chemistry | Alkalinity | mg/L | - | - | - | - | - |
| | Hardness | mg/L | - | - | - | - | - |
| | TDS | mg/L | - | - | - | - | - |
| | TSS | mg/L | - | <4U | <4U | <4U | <4U |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **1,200** | **130J** | **300** | **670J** | **190** |
| | Manganese | µg/L | **1,200** | **96** | **53** | **150J** | **67** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | <0.79U | <0.79U | <0.79U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.78U | <0.78U | <0.78U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <0.84U | <0.84U | <0.84U | <0.84U | <0.84U |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2UJ | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1UJ | <2.1U |
| | Acetone | µg/L | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32UJ |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | ND | ND | ND | ND | ND |

**SW-DRU**
**HISTORICAL SURFACE WATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | SW-DRU | SW-DRU | SW-DRU | SW-DRU | SW-DRU | SW-DRU | SW-DRU | SW-DRU |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 4/30/2008 | 7/24/2008 | 10/22/2008 | 4/27/2009 | 7/17/2009 | 10/29/2009 | 5/6/2010 | 7/22/2010 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | - | - | - | - | - | <10U | - | - |
| | Hardness | mg/L | - | - | - | - | - | **20** | - | - |
| | TDS | mg/L | - | - | - | - | - | **75** | - | - |
| | TSS | mg/L | <4U | **760** | <4U | <4U | <4U | **44.8** | <4U | <4U |
| Metals | Arsenic | µg/L | <4U | **17.9** | <4U | <3.7U | <5.6U | <5.6U | <10U | <10U |
| | Iron | µg/L | <150U | **36,100** | <150UJ | **56J** | <77U | **1590** | **118J** | **116J** |
| | Manganese | µg/L | **21** | **1940** | **9.6J** | **26** | **27.7** | **206J** | **44** | **45** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | <5U | <5U | <0.26U | <0.26U | <0.26U | <5U | <5U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U | <5U | <5U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <5U | <0.23U | <0.23U | <0.23U | <5U | <5U |
| | 1,1-Dichloroethane | µg/L | <5U | <5U | <5U | <0.75U | <0.38U | <0.38U | <5U | <5U |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <5U | <0.29U | <0.29U | <0.29U | <5U | <5U |
| | 1,2-Dichlorobenzene | µg/L | <5U | <5U | <5U | <0.2U | <0.2U | <0.2U | <5U | <5U |
| | 1,2-Dichloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U | <5U | <5U |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <5U | <0.14U | <0.32U | <0.33U | <5U | <5U |
| | 1,3-Dichlorobenzene | µg/L | <5U | <5U | <5U | <0.16U | <0.36U | <0.36U | <5U | <5U |
| | 1,4-Dichlorobenzene | µg/L | <5U | <5U | <5U | <0.16U | <0.39U | <0.39U | <5U | <5U |
| | 2-Butanone | µg/L | <5U | <5U | <5U | <1.3U | <1.3U | <1.3U | <5U | <5U |
| | 2-Hexanone | µg/L | <5U | <5U | <5U | <1.2U | <1.2U | <1.2U | <5U | <5U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <5U | <0.91U | <0.91U | <0.91U | <5U | <5U |
| | Acetone | µg/L | <2.1U | <10U | <10U | <1.3U | <1.3U | <1.3U | <10U | <10U |
| | Benzene | µg/L | <5U | <5U | <5U | <0.16U | <0.41U | <0.41U | <5U | <5U |
| | Dichlorobromomethane | µg/L | <5U | <5U | <5U | <0.39U | <0.39U | <0.39U | <5U | <5U |
| | Bromoform | µg/L | <5U | <5U | <5U | <0.26U | <0.26U | <0.26U | <5U | <5U |
| | Bromomethane | µg/L | <5U | <5U | <5U | <0.28U | <0.28U | <0.28U | <5U | <5U |
| | Carbon Disulfide | µg/L | <5U | <5U | **0.27J** | **0.71J** | <0.19U | <0.19U | <5U | <5U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <5U | <0.27U | <0.27U | <0.27U | <5U | <5U |
| | Chlorobenzene | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U | <5U | <5U |
| | Chlorodibromomethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U | <5U | <5U |
| | Chloroethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U | <5U | <5U |
| | Chloroform | µg/L | <5U | <5U | <5U | <0.34U | <0.34U | <0.34U | <5U | <5U |
| | Chloromethane | µg/L | <5U | <5U | <5U | <0.35U | <0.35U | <0.35U | <5U | <5U |
| | cis-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.16U | <0.38U | <0.38U | <1U | <1U |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U | <5U | <5U |
| | Methylene Chloride | µg/L | <5U | <5U | <5U | <0.44U | <0.44U | <0.44U | <5U | <5U |
| | Ethylbenzene | µg/L | <5U | <5U | <5U | <0.18U | <0.18U | <0.18U | <5U | <5U |
| | Styrene | µg/L | <5U | <5U | <5U | <0.18U | <0.18U | <0.18U | <5U | <5U |
| | Trichloroethene | µg/L | <5U | <5U | <5U | <0.18U | <0.46U | <0.46U | <5U | <5U |
| | Tetrachloroethene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U | <5U | <5U |
| | Toluene | µg/L | <5U | <5U | <5U | <0.51U | <0.51U | <0.51U | <5U | <5U |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.13U | <0.42U | <0.42U | <1U | <1U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.37U | <0.37U | <0.37U | <5U | <5U |
| | Vinyl Chloride | µg/L | <5U | <5U | <5U | <0.24U | <0.24U | <0.24U | <5U | <5U |
| | Total Xylenes | µg/L | <5U | <5U | <5U | <0.66U | <0.66U | <0.66U | <5U | <5U |
| | Total VOCS | µg/L | ND | ND | **0.27** | **0.71** | ND | ND | ND | ND |

**SW-DRU**
**HISTORICAL SURFACE WATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | SW-DRU | SW-DRU | SW-DRU | SW-DRU | SW-DRU | SW-DRU | SW-DRU | SW-DRU |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/28/2010 | 10/19/2011 | 11/20/2012 | 10/21/2013 | 10/22/2014 | 10/20/2015 | 10/26/2016 | 10/18/2017 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | - | - | - | - | - | - | - | - |
| | Hardness | mg/L | - | - | - | - | - | - | - | - |
| | TDS | mg/L | - | - | - | - | - | - | - | - |
| | TSS | mg/L | <4U | <4U | <4U | <4U | - | <4U | <4U | <4U |
| Metals | Arsenic | µg/L | <10U | <10U | <10U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **151** | **130J** | **66J** | **78J** | **83J** | **73J** | **95J** | **120J** |
| | Manganese | µg/L | **14.9** | **20** | **8.6** | **12** | **38** | **11** | **19** | **15** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <5U | <5U | <5U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <5U | <5U | <5U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <5U | <5U | <5U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <5U | <5U | <5U | <0.29U | <0.29UJ | <0.29UJ | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <5U | <5U | <5U | <0.79U | <0.79U | <0.79U | <0.79U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <5U | <5U | <5U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <5U | <5U | <5U | <0.72U | <0.72U | <0.72UJ | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <5U | <5U | <5U | <0.78U | <0.78U | <0.78U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <5U | <5U | <5U | <0.84U | <0.84U | <0.84U | <0.84U | <0.84U |
| | 2-Butanone | µg/L | <5U | <5U | <5U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <5U | <5U | <5U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <5U | <5U | <5U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U |
| | Acetone | µg/L | <10U | <10U | <10U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <5U | <5U | <5U | <0.41U | <0.41U | <0.41UJ | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <5U | <5U | <5U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <5U | <5U | <5U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <5U | <5U | <5U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <5U | <5U | <5U | **2.1J** | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <5U | <5U | <5U | <0.27U | <0.27UJ | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <5U | <5U | <5U | <0.75U | <0.75U | <0.75UJ | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroethane | µg/L | <5U | <5U | <5U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <5U | <5U | <5U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <5U | <5U | <5U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <5U | <5U | <5U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <5U | <5U | <5U | <0.74U | <0.74U | <0.74UJ | <0.74U | <0.74U |
| | Styrene | µg/L | <5U | <5U | <5U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <5U | <5U | <5U | <0.46U | <0.46U | <0.46UJ | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <5U | <5U | <5U | <0.36U | <0.36U | <0.36UJ | <0.36U | <0.36U |
| | Toluene | µg/L | <5U | <5U | <5U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <1U | <1U | <1U | <0.9U | <0.9U | <0.9UJ | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <5U | <5U | <5U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <5U | <5U | <5U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <5U | <5U | <5U | <0.66U | <0.66U | <0.66UJ | <0.66U | <0.66U |
| | Total VOCS | µg/L | ND | ND | ND | **2.1** | ND | ND | ND | ND |

**SW-DRU**
**HISTORICAL SURFACE WATER MONITORING DATA**

**Cortese Landfill Site**
**Narrowsburg, New York**

| | Sample Location | | SW-DRU | SW-DRU | SW-DRU | SW-DRU | SW-DRU | SW-DRU | SW-DRU | SW-DRU |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | | 10/16/2018 | 10/8/2019 | 10/21/2020 | 12/22/2021 | 10/25/2022 | 10/31/2023 | 10/29/2024 | 10/23/2025 |
| | Parameters | Units | | | | | | | | |
| General Chemistry | Alkalinity | mg/L | - | - | - | - | - | - | - | - |
| | Hardness | mg/L | - | - | - | - | - | - | - | - |
| | TDS | mg/L | - | - | - | - | - | - | - | - |
| | TSS | mg/L | <4U | <4U | <4U | <4U | <4U | <4U | <4U | <4U |
| Metals | Arsenic | µg/L | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U | <5.6U |
| | Iron | µg/L | **200** | **180** | **82J** | **490** | **54J** | **280** | **670J** | **120J** |
| | Manganese | µg/L | **45** | **21** | **13** | **47** | **8.8** | **39** | **150J** | **15** |
| Volatile Organics | 1,1,1-Trichloroethane | µg/L | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U | <0.82U |
| | 1,1,2,2-Tetrachloroethane | µg/L | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,1,2-Trichloroethane | µg/L | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U | <0.23U |
| | 1,1-Dichloroethane | µg/L | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U | <0.38U |
| | 1,1-Dichloroethene | µg/L | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U | <0.29U |
| | 1,2-Dichlorobenzene | µg/L | <0.79U | <0.79U | <0.21U | <0.79U | <0.79U | <0.79U | <0.79U | <0.79U |
| | 1,2-Dichloroethane | µg/L | <0.21U | <0.21U | <0.72U | <0.21U | <0.21U | <0.21U | <0.21U | <0.21U |
| | 1,2-Dichloropropane | µg/L | <0.72U | <0.72U | <0.79U | <0.72U | <0.72U | <0.72U | <0.72U | <0.72U |
| | 1,3-Dichlorobenzene | µg/L | <0.78U | <0.78U | <0.78U | <0.78U | <0.78U | <0.78U | <0.78U | <0.78U |
| | 1,4-Dichlorobenzene | µg/L | <0.84U | <0.84U | <0.84U | <0.84U | <0.84U | <0.84U | <0.84U | <0.84U |
| | 2-Butanone | µg/L | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U | <1.3U |
| | 2-Hexanone | µg/L | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2U | <1.2UJ | <1.2U |
| | 4-Methyl-2-pentanone | µg/L | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1U | <2.1UJ | <2.1U |
| | Acetone | µg/L | <3U | **4J** | <3.0U | <3U | <3U | <3U | <3U | <3U |
| | Benzene | µg/L | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U | <0.41U |
| | Dichlorobromomethane | µg/L | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U | <0.39U |
| | Bromoform | µg/L | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U | <0.26U |
| | Bromomethane | µg/L | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U | <0.69U |
| | Carbon Disulfide | µg/L | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U | <0.19U |
| | Carbon Tetrachloride | µg/L | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U | <0.27U |
| | Chlorobenzene | µg/L | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U | <0.75U |
| | Chlorodibromomethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32UJ |
| | Chloroethane | µg/L | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U | <0.32U |
| | Chloroform | µg/L | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U | <0.34U |
| | Chloromethane | µg/L | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U | <0.35U |
| | cis-1,2-Dichloroethene | µg/L | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U | <0.81U |
| | cis-1,3-Dichloropropene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Methylene Chloride | µg/L | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U | <0.44U |
| | Ethylbenzene | µg/L | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U | <0.74U |
| | Styrene | µg/L | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U | <0.73U |
| | Trichloroethene | µg/L | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U | <0.46U |
| | Tetrachloroethene | µg/L | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U | <0.36U |
| | Toluene | µg/L | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U | <0.51U |
| | trans-1,2-Dichloroethene | µg/L | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | trans-1,3-Dichloropropene | µg/L | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U | <0.37U |
| | Vinyl Chloride | µg/L | <0.9U | <0.9U | <0.90U | <0.9U | <0.9U | <0.9U | <0.9U | <0.9U |
| | Total Xylenes | µg/L | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U | <0.66U |
| | Total VOCS | µg/L | ND | **4** | ND | ND | ND | ND | ND | ND |

# NOTES
# HISTORICAL GROUNDWATER MONITORING DATA

**Cortese Landfill Site**
**Narrowsburg, New York**

**NOTES:**

- Cleanup Goal presented in Table 2 - Chemical-Specific Groundwater ARARs and TBCs of MNA Remedial Design, Operable Unit 3, Downgradient Groundwater, revised (Geosyntec, May 2013)
- Total VOCs and SVOCs are sum of detected compounds rounded up to nearest two significant digits, <0 indicates that no VOCS or SVOCs were detected in sample.
- Detected parameters shown in bold
- Shaded indicates concentration detected at OU3 monitoring location above cleanup goal

"-" Parameter not analyzed
J - Analyte was detected at an estimated concentration
J+ - Analyte was detected at an estimated concentration, result may be biased high
J- - Analyte was detected at an estimated concentration, result may be biased low
U - Analyte was not detected in the sample; value shown is the method detection limit (MDL)
UJ - Analyte was not detected; the MDL is an estimated value
NA - Not applicable, no cleanup goal specified.
ND - Not detected
ug/L - micrograms per Liter
mg/L - milligrams per Liter

# APPENDIX A.5

# LABORATORY ANALYTICAL REPORTS FOR 2025 ANNUAL PERFORMANCE MONITORING

eurofins | Environment Testing

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ted Wilson
Geosyntec Consultants Inc
10211 Wincopin Circle
4th Floor
Columbia, Maryland 21044

Generated 5/7/2025 10:58:19 AM

## JOB DESCRIPTION

Cortese Landfill - Semiannual Groundwater
228881
Semi-Annual GW - Spring (4)

## JOB NUMBER

480-228881-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

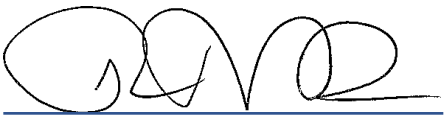
See page two for job notes and contact information.

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

## Authorization



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Authorized for release by
Ryan VanDette, Project Manager II
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## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| B | Compound was found in the blank and sample. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC VOA

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

### Metals

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| B | Compound was found in the blank and sample. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

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

## Glossary (Continued)

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## Job ID: 480-228881-1 Eurofins Buffalo

**Job Narrative**
**480-228881-1**

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 4/22/2025 9:15 AM and 4/23/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 2.3°C, 2.6°C, 2.9°C, 3.0°C and 3.3°C.

**Receipt Exceptions**
The following samples were submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): MW-1C (480-228898-10[MS]) and MW-1C (480-228898-10[MSD])

One or more containers for the following sample(s) was received broken or leaking: Lids were received cracked - no volume was lost. EX-1 (480-228881-6), MW-1B (480-228898-9) and MW-1C (480-228898-10[MS]).

The container count for the following samples did not match what was listed on the Chain-of-Custody (COC): FDUP-01-GW (480-228898-1), MW-10 (480-228898-2), MW-11 (480-228898-3), MW-1A (480-228898-8), MW-1B (480-228898-9) and MW-1C (480-228898-10). The laboratory received 5 total containers, while the COC lists 2 total containers.

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): MW-6A, MW-6B. The container labels list MW-20A and MW-20B, while the COC lists MW-6A and MW-6B.Samples logged according to sample IDs on sample containers received.

**GC/MS VOA**
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: EX-1 (480-228881-6). Elevated reporting limits (RLs) are provided.

Method 8260C: The results reported for the following samples do not concur with results previously reported for this site: FDUP-01-GW (480-228898-1) and MW-18B (480-228898-5). Reanalysis was performed, and the result(s) confirmed.

Method 8260C: The results reported for the following sample do not concur with results previously reported for this site: EX-1 (480-228881-6). Reanalysis was performed, and the result(s) confirmed.

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

**GC/MS Semi VOA**
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-744620 recovered outside acceptance criteria, low biased, for 2,2'-oxybis(1-chloropropane), 3-Nitroaniline, Carbazole and N-Nitrosodi-n-propylamine. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated sample was non-detect for the analyte(s), the data are reported.The associated sample is:MW-1C (480-228898-10).

Method 8270D: The following sample was diluted due to color, appearance, and viscosity: EX-1 (480-228881-6). Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-744659 recovered outside acceptance criteria, low biased, for 2,2'-oxybis(1-chloropropane), 3-Nitroaniline and Carbazole. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

## Job ID: 480-228881-1 (Continued) Eurofins Buffalo

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-744620 recovered outside acceptance criteria, low biased, for 2,2'-oxybis(1-chloropropane), 3-Nitroaniline, Carbazole and N-Nitrosodi-n-propylamine. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.The associated samples are:FDUP-01-GW (480-228898-1), MW-10 (480-228898-2), MW-11 (480-228898-3), MW-18A (480-228898-4), MW-18B (480-228898-5), MW-18C (480-228898-6), MW-19 (480-228898-7), MW-1A (480-228898-8), MW-1B (480-228898-9), MW-21 (480-228898-11) and MW-6A (480-228898-12).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-744662 recovered outside acceptance criteria, low biased, for 2,2'-oxybis(1-chloropropane). A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-744735 recovered outside acceptance criteria, low biased, for 2,2'-oxybis(1-chloropropane), 2-Nitroaniline, 3-Nitroaniline, Bis(2-chloroethyl)ether, N-Nitrosodi-n-propylamine and Phenol. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

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

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

**Metals**
Method 6010C: The method blank for preparation batch 480-744307 and analytical batch 480-744512 contained total Iron above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010C: The method blank for preparation batch 480-744307 and analytical batch 480-744477 contained total Iron above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

**General Chemistry**
Method 310.2: The method blank for analytical batch 480-744468 contained alkalinity above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-744308 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-744371 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method D516: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 480-744889 were outside control limits: MW-1C (480-228898-10). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

# Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: TRIP BLANK — Lab Sample ID: 480-228881-1

No Detections.

## Client Sample ID: MW-20A — Lab Sample ID: 480-228881-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 5.7 | | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 1.4 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 0.89 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 5.0 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 3.5 | J | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 1.4 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 0.79 | J | 5.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| 1,2,4-Trichlorobenzene | 0.89 | J | 1.9 | 0.44 | ug/L | 1 | | 8270D | Total/NA |
| 1,2-Dichlorobenzene | 1.1 | J | 1.9 | 0.40 | ug/L | 1 | | 8270D | Total/NA |
| 1,3-Dichlorobenzene | 0.58 | J | 1.9 | 0.48 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dichlorobenzene | 3.6 | J | 4.4 | 0.46 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dioxane | 4.5 | J | 10 | 1.1 | ug/L | 1 | | 8270D | Total/NA |
| Iron | 1.4 | | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 0.82 | | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 87.2 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 0.17 | F1 | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.028 | J | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 13.6 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |

## Client Sample ID: MW-20B — Lab Sample ID: 480-228881-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 1.2 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 1.4 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 1.6 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 4.3 | J | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 6.1 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| Tetrachloroethene | 2.4 | J | 5.0 | 0.36 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 3.0 | J | 5.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| 1,2,4-Trichlorobenzene | 1.1 | J | 1.9 | 0.44 | ug/L | 1 | | 8270D | Total/NA |
| 1,2-Dichlorobenzene | 1.3 | J | 1.9 | 0.40 | ug/L | 1 | | 8270D | Total/NA |
| 1,3-Dichlorobenzene | 1.2 | J | 1.9 | 0.48 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dichlorobenzene | 3.3 | J | 4.4 | 0.46 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dioxane | 5.8 | J | 10 | 1.1 | ug/L | 1 | | 8270D | Total/NA |
| Arsenic | 0.019 | | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 12.0 | | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 5.8 | | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 38.9 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 1.2 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.026 | J F1 | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 7.8 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |

## Client Sample ID: MW-22 — Lab Sample ID: 480-228881-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 1.1 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 1.4 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 1.7 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 5.3 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

## Client Sample ID: MW-22 (Continued) — Lab Sample ID: 480-228881-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 6.3 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| 1,2,4-Trichlorobenzene | 1.2 | J | 1.9 | 0.44 | ug/L | 1 | | 8270D | Total/NA |
| 1,2-Dichlorobenzene | 0.85 | J | 1.9 | 0.40 | ug/L | 1 | | 8270D | Total/NA |
| 1,3-Dichlorobenzene | 1.0 | J | 1.9 | 0.48 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dichlorobenzene | 3.4 | J | 4.4 | 0.46 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dioxane | 1.9 | J | 10 | 1.1 | ug/L | 1 | | 8270D | Total/NA |
| Arsenic | 0.026 | | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 7.7 | | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 10.5 | | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 42.7 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 1.6 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.029 | J | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 10.6 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |

## Client Sample ID: FDUP-02-GW — Lab Sample ID: 480-228881-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 0.97 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 1.3 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 1.7 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 5.3 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 6.0 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| 1,2,4-Trichlorobenzene | 6.2 | | 1.9 | 0.44 | ug/L | 1 | | 8270D | Total/NA |
| 1,2-Dichlorobenzene | 1.2 | J | 1.9 | 0.40 | ug/L | 1 | | 8270D | Total/NA |
| 1,3-Dichlorobenzene | 1.4 | J | 1.9 | 0.48 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dichlorobenzene | 3.9 | J | 4.4 | 0.46 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dioxane | 2.2 | J | 10 | 1.1 | ug/L | 1 | | 8270D | Total/NA |
| Arsenic | 0.025 | | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 7.3 | | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 10.0 | | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 39.9 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 1.6 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.027 | J | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 10.8 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |

## Client Sample ID: EX-1 — Lab Sample ID: 480-228881-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 9.0 | J | 10 | 0.76 | ug/L | 2 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 22 | | 10 | 1.6 | ug/L | 2 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 26 | | 10 | 1.6 | ug/L | 2 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 72 | | 10 | 1.7 | ug/L | 2 | | 8260C | Total/NA |
| Chlorobenzene | 110 | | 10 | 1.5 | ug/L | 2 | | 8260C | Total/NA |
| Chloroform | 0.68 | J | 10 | 0.68 | ug/L | 2 | | 8260C | Total/NA |
| Ethylbenzene | 9.5 | J | 10 | 1.5 | ug/L | 2 | | 8260C | Total/NA |
| Toluene | 4.8 | J | 10 | 1.0 | ug/L | 2 | | 8260C | Total/NA |
| Xylenes, Total | 1.7 | J | 10 | 1.3 | ug/L | 2 | | 8260C | Total/NA |
| 1,2,4-Trichlorobenzene | 17 | J | 19 | 4.4 | ug/L | 10 | | 8270D | Total/NA |
| 1,2-Dichlorobenzene | 15 | J | 19 | 4.0 | ug/L | 10 | | 8270D | Total/NA |
| 1,3-Dichlorobenzene | 17 | J | 19 | 4.8 | ug/L | 10 | | 8270D | Total/NA |
| 1,4-Dichlorobenzene | 47 | | 44 | 4.6 | ug/L | 10 | | 8270D | Total/NA |
| 1,4-Dioxane | 31 | J | 100 | 11 | ug/L | 10 | | 8270D | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: EX-1 (Continued) — Lab Sample ID: 480-228881-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C10) | 230 | J | 500 | 180 | ug/L | 10 | | 8015D | Total/NA |
| Arsenic | 0.039 | | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 25.4 | | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 9.1 | | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 69.7 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 1.8 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.031 | J | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 2.7 | J | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 3.0 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: FDUP-01-GW — Lab Sample ID: 480-228898-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.0058 | J | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 0.53 | B | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 1.6 | B | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 75.2 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Sulfate | 14.8 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 0.55 | J | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-10 — Lab Sample ID: 480-228898-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 1.2 | J | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 6.2 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 0.88 | J | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Vinyl chloride | 1.7 | J | 5.0 | 0.90 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 0.82 | J | 4.4 | 0.46 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dioxane | 60 | | 10 | 1.1 | ug/L | 1 | | 8270D | Total/NA |
| Arsenic | 0.049 | | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 19.4 | B | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 14.2 | B | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 81.1 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 0.87 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.034 | J | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 15.3 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 4.0 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-11 — Lab Sample ID: 480-228898-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Iron | 1.1 | B | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 0.80 | B | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 60.9 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Nitrate-Nitrite | 0.026 | J F1 | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 11.5 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 0.53 | J | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-18A — Lab Sample ID: 480-228898-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.0083 | J | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 0.19 | B | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: MW-18A (Continued) — Lab Sample ID: 480-228898-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Manganese | 1.7 | B | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 93.8 | B | 25.0 | 20.0 | mg/L | 5 | | 310.2 | Total/NA |
| Sulfate | 16.9 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 0.69 | J | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-18B — Lab Sample ID: 480-228898-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 10 | | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 7.2 | | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 10 | | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 24 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 45 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| Toluene | 0.62 | J | 5.0 | 0.51 | ug/L | 1 | | 8260C | Total/NA |
| 1,2,4-Trichlorobenzene | 5.9 | B | 1.9 | 0.44 | ug/L | 1 | | 8270D | Total/NA |
| 1,2-Dichlorobenzene | 4.7 | | 1.9 | 0.40 | ug/L | 1 | | 8270D | Total/NA |
| 1,3-Dichlorobenzene | 6.0 | | 1.9 | 0.48 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dichlorobenzene | 14 | | 4.4 | 0.46 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dioxane | 10 | | 10 | 1.1 | ug/L | 1 | | 8270D | Total/NA |
| 2,4-Dichlorophenol | 0.56 | J | 2.8 | 0.51 | ug/L | 1 | | 8270D | Total/NA |
| Arsenic | 0.061 | | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 43.3 | B | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 11.0 | B | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 97.5 | | 25.0 | 20.0 | mg/L | 5 | | 310.2 | Total/NA |
| Ammonia | 1.1 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.046 | J | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 13.1 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 4.0 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-18C — Lab Sample ID: 480-228898-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 1.7 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 1.1 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 1.5 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 3.8 | J | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 4.9 | J | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| 1,2,4-Trichlorobenzene | 1.4 | J B | 1.9 | 0.44 | ug/L | 1 | | 8270D | Total/NA |
| 1,2-Dichlorobenzene | 0.85 | J | 1.9 | 0.40 | ug/L | 1 | | 8270D | Total/NA |
| 1,3-Dichlorobenzene | 1.2 | J | 1.9 | 0.48 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dichlorobenzene | 2.8 | J | 4.4 | 0.46 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dioxane | 5.5 | J | 10 | 1.1 | ug/L | 1 | | 8270D | Total/NA |
| Arsenic | 0.0092 | J | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 7.8 | B | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 7.5 | B | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 30.0 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 0.58 | F1 | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.042 | J | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 12.4 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 1.1 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: MW-19 — Lab Sample ID: 480-228898-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 3.2 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 2.5 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 2.6 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 8.0 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 15 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 2.7 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 0.67 | J | 5.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| 1,2,4-Trichlorobenzene | 2.6 | B | 1.9 | 0.44 | ug/L | 1 | | 8270D | Total/NA |
| 1,2-Dichlorobenzene | 2.1 | | 1.9 | 0.40 | ug/L | 1 | | 8270D | Total/NA |
| 1,3-Dichlorobenzene | 2.1 | | 1.9 | 0.48 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dichlorobenzene | 6.3 | | 4.4 | 0.46 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dioxane | 19 | | 10 | 1.1 | ug/L | 1 | | 8270D | Total/NA |
| Arsenic | 0.0092 | J | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 4.5 | B | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 17.6 | B | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 68.9 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 0.25 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.023 | J | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 20.6 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 1.6 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-1A — Lab Sample ID: 480-228898-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Iron | 0.61 | B | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 1.6 | B | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 75.5 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 0.068 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Sulfate | 14.7 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 0.56 | J | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-1B — Lab Sample ID: 480-228898-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 5.9 | | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 8.3 | | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 10 | | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 24 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 40 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| 1,2,4-Trichlorobenzene | 4.1 | B | 1.9 | 0.44 | ug/L | 1 | | 8270D | Total/NA |
| 1,2-Dichlorobenzene | 5.8 | | 1.9 | 0.40 | ug/L | 1 | | 8270D | Total/NA |
| 1,3-Dichlorobenzene | 6.6 | | 1.9 | 0.48 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dichlorobenzene | 16 | | 4.4 | 0.46 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dioxane | 25 | | 10 | 1.1 | ug/L | 1 | | 8270D | Total/NA |
| GRO (C6-C10) | 64 | | 50 | 18 | ug/L | 1 | | 8015D | Total/NA |
| Arsenic | 0.034 | | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 20.7 | B | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 10.5 | B | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 106 | | 25.0 | 20.0 | mg/L | 5 | | 310.2 | Total/NA |
| Ammonia | 3.4 | | 0.25 | 0.045 | mg/L | 5 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.029 | J F1 | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 6.4 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

## Client Sample ID: MW-1B (Continued) — Lab Sample ID: 480-228898-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 4.8 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-1C — Lab Sample ID: 480-228898-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 0.82 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 1.6 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 1.7 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 4.8 | J | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 6.9 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| 1,2,4-Trichlorobenzene | 0.52 | J B | 1.9 | 0.44 | ug/L | 1 | | 8270D | Total/NA |
| 1,2-Dichlorobenzene | 0.93 | J | 1.9 | 0.40 | ug/L | 1 | | 8270D | Total/NA |
| 1,3-Dichlorobenzene | 1.0 | J | 1.9 | 0.48 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dichlorobenzene | 3.1 | J | 4.4 | 0.46 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dioxane | 4.9 | J | 10 | 1.1 | ug/L | 1 | | 8270D | Total/NA |
| GRO (C6-C10) | 18 | J | 50 | 18 | ug/L | 1 | | 8015D | Total/NA |
| Arsenic | 0.048 | | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 30.4 | B | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 14.0 | B | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 50.6 | F1 F2 | 25.0 | 20.0 | mg/L | 5 | | 310.2 | Total/NA |
| Ammonia | 1.7 | F1 | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.040 | J F1 | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Total Organic Carbon | 5.8 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-21 — Lab Sample ID: 480-228898-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 5.1 | | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 4.8 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 4.8 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 21 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 7.8 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 1.2 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 0.89 | J | 5.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| 1,2,4-Trichlorobenzene | 3.7 | B | 1.9 | 0.44 | ug/L | 1 | | 8270D | Total/NA |
| 1,2-Dichlorobenzene | 3.8 | | 1.9 | 0.40 | ug/L | 1 | | 8270D | Total/NA |
| 1,3-Dichlorobenzene | 3.8 | | 1.9 | 0.48 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dichlorobenzene | 15 | | 4.4 | 0.46 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dioxane | 13 | | 10 | 1.1 | ug/L | 1 | | 8270D | Total/NA |
| Benzyl alcohol | 0.47 | J | 7.0 | 0.44 | ug/L | 1 | | 8270D | Total/NA |
| Diethyl phthalate | 0.24 | J | 10 | 0.22 | ug/L | 1 | | 8270D | Total/NA |
| Iron | 3.8 | B | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 1.5 | B | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 99.1 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 3.1 | | 0.25 | 0.045 | mg/L | 5 | | 350.1 | Total/NA |
| Sulfate | 27.4 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 2.3 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-6A — Lab Sample ID: 480-228898-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1.9 | J | 5.0 | 0.82 | ug/L | 1 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: MW-6A (Continued) — Lab Sample ID: 480-228898-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 13 | | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 5.0 | | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 4.0 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 19 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 11 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| Chloroform | 0.65 | J | 5.0 | 0.34 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 36 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Tetrachloroethene | 2.2 | J | 5.0 | 0.36 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 81 | | 5.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| Vinyl chloride | 4.4 | J | 5.0 | 0.90 | ug/L | 1 | | 8260C | Total/NA |
| 1,2,4-Trichlorobenzene | 4.1 | B | 1.9 | 0.44 | ug/L | 1 | | 8270D | Total/NA |
| 1,2-Dichlorobenzene | 3.8 | | 1.9 | 0.40 | ug/L | 1 | | 8270D | Total/NA |
| 1,3-Dichlorobenzene | 2.9 | | 1.9 | 0.48 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dichlorobenzene | 13 | | 4.4 | 0.46 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dioxane | 16 | | 10 | 1.1 | ug/L | 1 | | 8270D | Total/NA |
| Iron | 0.071 | J B | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 9.1 | B | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 108 | | 25.0 | 20.0 | mg/L | 5 | | 310.2 | Total/NA |
| Ammonia | 0.40 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Sulfate | 18.8 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 4.4 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-6B — Lab Sample ID: 480-228898-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 1.9 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 1.0 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 1.3 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 3.8 | J | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 5.9 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| 1,2,4-Trichlorobenzene | 1.1 | J B | 1.9 | 0.44 | ug/L | 1 | | 8270D | Total/NA |
| 1,2-Dichlorobenzene | 0.64 | J | 1.9 | 0.40 | ug/L | 1 | | 8270D | Total/NA |
| 1,3-Dichlorobenzene | 0.79 | J | 1.9 | 0.48 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dichlorobenzene | 2.3 | J | 4.4 | 0.46 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dioxane | 6.8 | J | 10 | 1.1 | ug/L | 1 | | 8270D | Total/NA |
| Arsenic | 0.050 | | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 15.7 | B | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 13.3 | B | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 54.4 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 1.4 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.027 | J | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 13.7 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 2.0 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-7A — Lab Sample ID: 480-228898-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Iron | 0.027 | J B | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 0.0013 | J B | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 20.8 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 0.0090 | J | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.095 | | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: MW-7A (Continued) — Lab Sample ID: 480-228898-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 8.8 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 0.79 | J | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-7M — Lab Sample ID: 480-228898-15

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 1.2 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 1.1 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 0.90 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 4.3 | J | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 1.9 | J | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 0.85 | J | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 0.52 | J | 5.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| 1,2,4-Trichlorobenzene | 1.3 | J B | 1.9 | 0.44 | ug/L | 1 | | 8270D | Total/NA |
| 1,2-Dichlorobenzene | 0.80 | J | 1.9 | 0.40 | ug/L | 1 | | 8270D | Total/NA |
| 1,3-Dichlorobenzene | 0.58 | J | 1.9 | 0.48 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dichlorobenzene | 2.9 | J | 4.4 | 0.46 | ug/L | 1 | | 8270D | Total/NA |
| 1,4-Dioxane | 2.0 | J | 10 | 1.1 | ug/L | 1 | | 8270D | Total/NA |
| Iron | 0.033 | J B | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 1.3 | B | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Alkalinity, Total | 53.7 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 1.4 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Sulfate | 12.8 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 1.1 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: TRIP BLANK 2 — Lab Sample ID: 480-228898-16

No Detections.

## Client Sample ID: TRIP BLANK 3 — Lab Sample ID: 480-228898-17

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: TRIP BLANK

**Date Collected: 04/20/25 00:00**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-1

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/24/25 18:53 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/24/25 18:53 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/24/25 18:53 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 04/24/25 18:53 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/24/25 18:53 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 04/24/25 18:53 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/24/25 18:53 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/24/25 18:53 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 04/24/25 18:53 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 04/24/25 18:53 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/24/25 18:53 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/24/25 18:53 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/24/25 18:53 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/24/25 18:53 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/24/25 18:53 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/24/25 18:53 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/24/25 18:53 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/24/25 18:53 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/24/25 18:53 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/24/25 18:53 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 04/24/25 18:53 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/24/25 18:53 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/24/25 18:53 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/24/25 18:53 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/24/25 18:53 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/24/25 18:53 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/24/25 18:53 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/24/25 18:53 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/24/25 18:53 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/24/25 18:53 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/24/25 18:53 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/24/25 18:53 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/24/25 18:53 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/24/25 18:53 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/24/25 18:53 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/24/25 18:53 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/24/25 18:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *77 - 120* | | *04/24/25 18:53* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | | *04/24/25 18:53* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *73 - 120* | | *04/24/25 18:53* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *75 - 123* | | *04/24/25 18:53* | *1* |

## Client Sample ID: MW-20A

**Date Collected: 04/20/25 00:00**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-2

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/24/25 19:16 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/24/25 19:16 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/24/25 19:16 | 1 |
| **1,1-Dichloroethane** | **5.7** | | 5.0 | 0.38 | ug/L | | | 04/24/25 19:16 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/24/25 19:16 | 1 |
| **1,2-Dichlorobenzene** | **1.4** | **J** | 5.0 | 0.79 | ug/L | | | 04/24/25 19:16 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/24/25 19:16 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/24/25 19:16 | 1 |
| **1,3-Dichlorobenzene** | **0.89** | **J** | 5.0 | 0.78 | ug/L | | | 04/24/25 19:16 | 1 |
| **1,4-Dichlorobenzene** | **5.0** | | 5.0 | 0.84 | ug/L | | | 04/24/25 19:16 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/24/25 19:16 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/24/25 19:16 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/24/25 19:16 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/24/25 19:16 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/24/25 19:16 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/24/25 19:16 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/24/25 19:16 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/24/25 19:16 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/24/25 19:16 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/24/25 19:16 | 1 |
| **Chlorobenzene** | **3.5** | **J** | 5.0 | 0.75 | ug/L | | | 04/24/25 19:16 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/24/25 19:16 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/24/25 19:16 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/24/25 19:16 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/24/25 19:16 | 1 |
| **cis-1,2-Dichloroethene** | **1.4** | | 1.0 | 0.81 | ug/L | | | 04/24/25 19:16 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/24/25 19:16 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/24/25 19:16 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/24/25 19:16 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/24/25 19:16 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/24/25 19:16 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/24/25 19:16 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/24/25 19:16 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/24/25 19:16 | 1 |
| **Trichloroethene** | **0.79** | **J** | 5.0 | 0.46 | ug/L | | | 04/24/25 19:16 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/24/25 19:16 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/24/25 19:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *77 - 120* | | *04/24/25 19:16* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *04/24/25 19:16* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *73 - 120* | | *04/24/25 19:16* | *1* |
| *Dibromofluoromethane (Surr)* | *99* | | *75 - 123* | | *04/24/25 19:16* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,2,4-Trichlorobenzene** | **0.89** | **J** | 1.9 | 0.44 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| **1,2-Dichlorobenzene** | **1.1** | **J** | 1.9 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| **1,3-Dichlorobenzene** | **0.58** | **J** | 1.9 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| **1,4-Dichlorobenzene** | **3.6** | **J** | 4.4 | 0.46 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-20A**
**Date Collected: 04/20/25 00:00**
**Date Received: 04/22/25 09:15**

**Lab Sample ID: 480-228881-2**
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| **1,4-Dioxane** | **4.5** | **J** | 10 | 1.1 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-20A**
**Date Collected: 04/20/25 00:00**
**Date Received: 04/22/25 09:15**

**Lab Sample ID: 480-228881-2**
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/25/25 13:45 | 04/28/25 18:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *68* | | *29 - 129* | *04/25/25 13:45* | *04/28/25 18:46* | *1* |
| *2-Fluorobiphenyl* | *84* | | *53 - 126* | *04/25/25 13:45* | *04/28/25 18:46* | *1* |
| *p-Terphenyl-d14* | *93* | | *33 - 132* | *04/25/25 13:45* | *04/28/25 18:46* | *1* |
| *Phenol-d5* | *34* | | *10 - 120* | *04/25/25 13:45* | *04/28/25 18:46* | *1* |
| *2-Fluorophenol* | *52* | | *24 - 120* | *04/25/25 13:45* | *04/28/25 18:46* | *1* |
| *2,4,6-Tribromophenol* | *94* | | *25 - 144* | *04/25/25 13:45* | *04/28/25 18:46* | *1* |

## Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 04/23/25 08:24 | 04/23/25 23:19 | 1 |
| **Iron** | **1.4** | | 0.15 | 0.019 | mg/L | | 04/23/25 08:24 | 04/23/25 23:19 | 1 |
| **Manganese** | **0.82** | | 0.0050 | 0.00040 | mg/L | | 04/23/25 08:24 | 04/23/25 23:19 | 1 |

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **87.2** | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:07 | 1 |
| **Ammonia (EPA 350.1)** | **0.17** | **F1** | 0.050 | 0.0090 | mg/L | | | 04/23/25 13:14 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.028** | **J** | 0.050 | 0.020 | mg/L | | | 04/23/25 19:26 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **13.6** | | 5.0 | 1.5 | mg/L | | | 04/30/25 13:58 | 1 |
| Total Organic Carbon (SM 5310C) | ND | | 1.0 | 0.43 | mg/L | | | 04/22/25 18:12 | 1 |

## Client Sample ID: MW-20B

**Date Collected: 04/20/25 00:00**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-3

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/24/25 19:39 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/24/25 19:39 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/24/25 19:39 | 1 |
| **1,1-Dichloroethane** | **1.2** | **J** | 5.0 | 0.38 | ug/L | | | 04/24/25 19:39 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/24/25 19:39 | 1 |
| **1,2-Dichlorobenzene** | **1.4** | **J** | 5.0 | 0.79 | ug/L | | | 04/24/25 19:39 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/24/25 19:39 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/24/25 19:39 | 1 |
| **1,3-Dichlorobenzene** | **1.6** | **J** | 5.0 | 0.78 | ug/L | | | 04/24/25 19:39 | 1 |
| **1,4-Dichlorobenzene** | **4.3** | **J** | 5.0 | 0.84 | ug/L | | | 04/24/25 19:39 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/24/25 19:39 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/24/25 19:39 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/24/25 19:39 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/24/25 19:39 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/24/25 19:39 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/24/25 19:39 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/24/25 19:39 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/24/25 19:39 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/24/25 19:39 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/24/25 19:39 | 1 |
| **Chlorobenzene** | **6.1** | | 5.0 | 0.75 | ug/L | | | 04/24/25 19:39 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/24/25 19:39 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/24/25 19:39 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/24/25 19:39 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/24/25 19:39 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/24/25 19:39 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/24/25 19:39 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/24/25 19:39 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/24/25 19:39 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/24/25 19:39 | 1 |
| **Tetrachloroethene** | **2.4** | **J** | 5.0 | 0.36 | ug/L | | | 04/24/25 19:39 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/24/25 19:39 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/24/25 19:39 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/24/25 19:39 | 1 |
| **Trichloroethene** | **3.0** | **J** | 5.0 | 0.46 | ug/L | | | 04/24/25 19:39 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/24/25 19:39 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/24/25 19:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *77 - 120* | | *04/24/25 19:39* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *04/24/25 19:39* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *73 - 120* | | *04/24/25 19:39* | *1* |
| *Dibromofluoromethane (Surr)* | *102* | | *75 - 123* | | *04/24/25 19:39* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,2,4-Trichlorobenzene** | **1.1** | **J** | 1.9 | 0.44 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| **1,2-Dichlorobenzene** | **1.3** | **J** | 1.9 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| **1,3-Dichlorobenzene** | **1.2** | **J** | 1.9 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| **1,4-Dichlorobenzene** | **3.3** | **J** | 4.4 | 0.46 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-20B**
**Date Collected: 04/20/25 00:00**
**Date Received: 04/22/25 09:15**

**Lab Sample ID: 480-228881-3**
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| **1,4-Dioxane** | **5.8** | **J** | 10 | 1.1 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: MW-20B

**Date Collected: 04/20/25 00:00**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-3

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/25/25 13:45 | 04/28/25 19:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *65* | | *29 - 129* | *04/25/25 13:45* | *04/28/25 19:13* | *1* |
| *2-Fluorobiphenyl* | *89* | | *53 - 126* | *04/25/25 13:45* | *04/28/25 19:13* | *1* |
| *p-Terphenyl-d14* | *92* | | *33 - 132* | *04/25/25 13:45* | *04/28/25 19:13* | *1* |
| *Phenol-d5* | *34* | | *10 - 120* | *04/25/25 13:45* | *04/28/25 19:13* | *1* |
| *2-Fluorophenol* | *51* | | *24 - 120* | *04/25/25 13:45* | *04/28/25 19:13* | *1* |
| *2,4,6-Tribromophenol* | *102* | | *25 - 144* | *04/25/25 13:45* | *04/28/25 19:13* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.019** | | 0.010 | 0.0056 | mg/L | | 04/23/25 08:24 | 04/23/25 23:21 | 1 |
| **Iron** | **12.0** | | 0.15 | 0.019 | mg/L | | 04/23/25 08:24 | 04/23/25 23:21 | 1 |
| **Manganese** | **5.8** | | 0.0050 | 0.00040 | mg/L | | 04/23/25 08:24 | 04/23/25 23:21 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **38.9** | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:02 | 1 |
| **Ammonia (EPA 350.1)** | **1.2** | | 0.050 | 0.0090 | mg/L | | | 04/23/25 13:16 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.026** | **J F1** | 0.050 | 0.020 | mg/L | | | 04/23/25 19:32 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **7.8** | | 5.0 | 1.5 | mg/L | | | 04/30/25 14:00 | 1 |
| Total Organic Carbon (SM 5310C) | ND | | 1.0 | 0.43 | mg/L | | | 04/22/25 19:08 | 1 |

## Client Sample ID: MW-22

**Date Collected: 04/20/25 14:25**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-4

**Matrix: Ground Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/24/25 20:02 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/24/25 20:02 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/24/25 20:02 | 1 |
| **1,1-Dichloroethane** | **1.1** | **J** | 5.0 | 0.38 | ug/L | | | 04/24/25 20:02 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/24/25 20:02 | 1 |
| **1,2-Dichlorobenzene** | **1.4** | **J** | 5.0 | 0.79 | ug/L | | | 04/24/25 20:02 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/24/25 20:02 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/24/25 20:02 | 1 |
| **1,3-Dichlorobenzene** | **1.7** | **J** | 5.0 | 0.78 | ug/L | | | 04/24/25 20:02 | 1 |
| **1,4-Dichlorobenzene** | **5.3** | | 5.0 | 0.84 | ug/L | | | 04/24/25 20:02 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/24/25 20:02 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/24/25 20:02 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/24/25 20:02 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/24/25 20:02 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/24/25 20:02 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/24/25 20:02 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/24/25 20:02 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/24/25 20:02 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/24/25 20:02 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/24/25 20:02 | 1 |
| **Chlorobenzene** | **6.3** | | 5.0 | 0.75 | ug/L | | | 04/24/25 20:02 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/24/25 20:02 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/24/25 20:02 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/24/25 20:02 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/24/25 20:02 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/24/25 20:02 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/24/25 20:02 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/24/25 20:02 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/24/25 20:02 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/24/25 20:02 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/24/25 20:02 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/24/25 20:02 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/24/25 20:02 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/24/25 20:02 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/24/25 20:02 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/24/25 20:02 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/24/25 20:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *77 - 120* | | *04/24/25 20:02* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *04/24/25 20:02* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *73 - 120* | | *04/24/25 20:02* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *75 - 123* | | *04/24/25 20:02* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,2,4-Trichlorobenzene** | **1.2** | **J** | 1.9 | 0.44 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| **1,2-Dichlorobenzene** | **0.85** | **J** | 1.9 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| **1,3-Dichlorobenzene** | **1.0** | **J** | 1.9 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| **1,4-Dichlorobenzene** | **3.4** | **J** | 4.4 | 0.46 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-22**
**Date Collected: 04/20/25 14:25**
**Date Received: 04/22/25 09:15**

**Lab Sample ID: 480-228881-4**
**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| **1,4-Dioxane** | **1.9** | **J** | 10 | 1.1 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |

## Client Sample ID: MW-22
**Date Collected: 04/20/25 14:25**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-4
**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/25/25 13:45 | 04/28/25 19:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *57* | | *29 - 129* | *04/25/25 13:45* | *04/28/25 19:40* | *1* |
| *2-Fluorobiphenyl* | *72* | | *53 - 126* | *04/25/25 13:45* | *04/28/25 19:40* | *1* |
| *p-Terphenyl-d14* | *72* | | *33 - 132* | *04/25/25 13:45* | *04/28/25 19:40* | *1* |
| *Phenol-d5* | *30* | | *10 - 120* | *04/25/25 13:45* | *04/28/25 19:40* | *1* |
| *2-Fluorophenol* | *43* | | *24 - 120* | *04/25/25 13:45* | *04/28/25 19:40* | *1* |
| *2,4,6-Tribromophenol* | *78* | | *25 - 144* | *04/25/25 13:45* | *04/28/25 19:40* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.026** | | 0.010 | 0.0056 | mg/L | | 04/23/25 08:24 | 04/23/25 23:28 | 1 |
| **Iron** | **7.7** | | 0.15 | 0.019 | mg/L | | 04/23/25 08:24 | 04/23/25 23:28 | 1 |
| **Manganese** | **10.5** | | 0.0050 | 0.00040 | mg/L | | 04/23/25 08:24 | 04/23/25 23:28 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **42.7** | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:02 | 1 |
| **Ammonia (EPA 350.1)** | **1.6** | | 0.050 | 0.0090 | mg/L | | | 04/23/25 13:18 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.029** | **J** | 0.050 | 0.020 | mg/L | | | 04/23/25 19:36 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **10.6** | | 5.0 | 1.5 | mg/L | | | 04/30/25 14:00 | 1 |
| Total Organic Carbon (SM 5310C) | ND | | 1.0 | 0.43 | mg/L | | | 04/22/25 22:49 | 1 |

## Client Sample ID: FDUP-02-GW

**Date Collected: 04/20/25 00:00**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-5

**Matrix: Ground Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/24/25 20:25 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/24/25 20:25 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/24/25 20:25 | 1 |
| **1,1-Dichloroethane** | **0.97** | **J** | 5.0 | 0.38 | ug/L | | | 04/24/25 20:25 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/24/25 20:25 | 1 |
| **1,2-Dichlorobenzene** | **1.3** | **J** | 5.0 | 0.79 | ug/L | | | 04/24/25 20:25 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/24/25 20:25 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/24/25 20:25 | 1 |
| **1,3-Dichlorobenzene** | **1.7** | **J** | 5.0 | 0.78 | ug/L | | | 04/24/25 20:25 | 1 |
| **1,4-Dichlorobenzene** | **5.3** | | 5.0 | 0.84 | ug/L | | | 04/24/25 20:25 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/24/25 20:25 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/24/25 20:25 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/24/25 20:25 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/24/25 20:25 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/24/25 20:25 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/24/25 20:25 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/24/25 20:25 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/24/25 20:25 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/24/25 20:25 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/24/25 20:25 | 1 |
| **Chlorobenzene** | **6.0** | | 5.0 | 0.75 | ug/L | | | 04/24/25 20:25 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/24/25 20:25 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/24/25 20:25 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/24/25 20:25 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/24/25 20:25 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/24/25 20:25 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/24/25 20:25 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/24/25 20:25 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/24/25 20:25 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/24/25 20:25 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/24/25 20:25 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/24/25 20:25 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/24/25 20:25 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/24/25 20:25 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/24/25 20:25 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/24/25 20:25 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/24/25 20:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *77 - 120* | | *04/24/25 20:25* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *80 - 120* | | *04/24/25 20:25* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *73 - 120* | | *04/24/25 20:25* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *75 - 123* | | *04/24/25 20:25* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,2,4-Trichlorobenzene** | **6.2** | | 1.9 | 0.44 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| **1,2-Dichlorobenzene** | **1.2** | **J** | 1.9 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| **1,3-Dichlorobenzene** | **1.4** | **J** | 1.9 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| **1,4-Dichlorobenzene** | **3.9** | **J** | 4.4 | 0.46 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: FDUP-02-GW**
**Date Collected: 04/20/25 00:00**
**Date Received: 04/22/25 09:15**

**Lab Sample ID: 480-228881-5**
**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| **1,4-Dioxane** | **2.2** | **J** | 10 | 1.1 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |

## Client Sample ID: FDUP-02-GW

**Date Collected: 04/20/25 00:00**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-5

**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/25/25 13:45 | 04/28/25 20:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *70* | | *29 - 129* | *04/25/25 13:45* | *04/28/25 20:07* | *1* |
| *2-Fluorobiphenyl* | *89* | | *53 - 126* | *04/25/25 13:45* | *04/28/25 20:07* | *1* |
| *p-Terphenyl-d14* | *83* | | *33 - 132* | *04/25/25 13:45* | *04/28/25 20:07* | *1* |
| *Phenol-d5* | *35* | | *10 - 120* | *04/25/25 13:45* | *04/28/25 20:07* | *1* |
| *2-Fluorophenol* | *54* | | *24 - 120* | *04/25/25 13:45* | *04/28/25 20:07* | *1* |
| *2,4,6-Tribromophenol* | *97* | | *25 - 144* | *04/25/25 13:45* | *04/28/25 20:07* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.025** | | 0.010 | 0.0056 | mg/L | | 04/23/25 08:24 | 04/23/25 23:30 | 1 |
| **Iron** | **7.3** | | 0.15 | 0.019 | mg/L | | 04/23/25 08:24 | 04/23/25 23:30 | 1 |
| **Manganese** | **10.0** | | 0.0050 | 0.00040 | mg/L | | 04/23/25 08:24 | 04/23/25 23:30 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **39.9** | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:02 | 1 |
| **Ammonia (EPA 350.1)** | **1.6** | | 0.050 | 0.0090 | mg/L | | | 04/23/25 13:18 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.027** | **J** | 0.050 | 0.020 | mg/L | | | 04/23/25 19:38 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **10.8** | | 5.0 | 1.5 | mg/L | | | 04/30/25 14:00 | 1 |
| Total Organic Carbon (SM 5310C) | ND | | 1.0 | 0.43 | mg/L | | | 04/22/25 23:45 | 1 |

## Client Sample ID: EX-1

**Date Collected: 04/20/25 13:00**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-6

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 10 | 1.6 | ug/L | | | 04/25/25 14:56 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | | 10 | 0.42 | ug/L | | | 04/25/25 14:56 | 2 |
| 1,1,2-Trichloroethane | ND | | 10 | 0.46 | ug/L | | | 04/25/25 14:56 | 2 |
| **1,1-Dichloroethane** | **9.0** | **J** | 10 | 0.76 | ug/L | | | 04/25/25 14:56 | 2 |
| 1,1-Dichloroethene | ND | | 10 | 0.58 | ug/L | | | 04/25/25 14:56 | 2 |
| **1,2-Dichlorobenzene** | **22** | | 10 | 1.6 | ug/L | | | 04/25/25 14:56 | 2 |
| 1,2-Dichloroethane | ND | | 10 | 0.42 | ug/L | | | 04/25/25 14:56 | 2 |
| 1,2-Dichloropropane | ND | | 10 | 1.4 | ug/L | | | 04/25/25 14:56 | 2 |
| **1,3-Dichlorobenzene** | **26** | | 10 | 1.6 | ug/L | | | 04/25/25 14:56 | 2 |
| **1,4-Dichlorobenzene** | **72** | | 10 | 1.7 | ug/L | | | 04/25/25 14:56 | 2 |
| 2-Hexanone | ND | | 10 | 2.5 | ug/L | | | 04/25/25 14:56 | 2 |
| 2-Butanone (MEK) | ND | | 10 | 2.6 | ug/L | | | 04/25/25 14:56 | 2 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 10 | 4.2 | ug/L | | | 04/25/25 14:56 | 2 |
| Acetone | ND | | 20 | 6.0 | ug/L | | | 04/25/25 14:56 | 2 |
| Benzene | ND | | 10 | 0.82 | ug/L | | | 04/25/25 14:56 | 2 |
| Bromodichloromethane | ND | | 10 | 0.78 | ug/L | | | 04/25/25 14:56 | 2 |
| Bromoform | ND | | 10 | 0.52 | ug/L | | | 04/25/25 14:56 | 2 |
| Bromomethane | ND | | 10 | 1.4 | ug/L | | | 04/25/25 14:56 | 2 |
| Carbon disulfide | ND | | 10 | 0.38 | ug/L | | | 04/25/25 14:56 | 2 |
| Carbon tetrachloride | ND | | 10 | 0.54 | ug/L | | | 04/25/25 14:56 | 2 |
| **Chlorobenzene** | **110** | | 10 | 1.5 | ug/L | | | 04/25/25 14:56 | 2 |
| Dibromochloromethane | ND | | 10 | 0.64 | ug/L | | | 04/25/25 14:56 | 2 |
| Chloroethane | ND | | 10 | 0.64 | ug/L | | | 04/25/25 14:56 | 2 |
| **Chloroform** | **0.68** | **J** | 10 | 0.68 | ug/L | | | 04/25/25 14:56 | 2 |
| Chloromethane | ND | | 10 | 0.70 | ug/L | | | 04/25/25 14:56 | 2 |
| cis-1,2-Dichloroethene | ND | | 2.0 | 1.6 | ug/L | | | 04/25/25 14:56 | 2 |
| cis-1,3-Dichloropropene | ND | | 10 | 0.72 | ug/L | | | 04/25/25 14:56 | 2 |
| **Ethylbenzene** | **9.5** | **J** | 10 | 1.5 | ug/L | | | 04/25/25 14:56 | 2 |
| Methylene Chloride | ND | | 10 | 0.88 | ug/L | | | 04/25/25 14:56 | 2 |
| Styrene | ND | | 10 | 1.5 | ug/L | | | 04/25/25 14:56 | 2 |
| Tetrachloroethene | ND | | 10 | 0.72 | ug/L | | | 04/25/25 14:56 | 2 |
| **Toluene** | **4.8** | **J** | 10 | 1.0 | ug/L | | | 04/25/25 14:56 | 2 |
| trans-1,2-Dichloroethene | ND | | 2.0 | 1.8 | ug/L | | | 04/25/25 14:56 | 2 |
| trans-1,3-Dichloropropene | ND | | 10 | 0.74 | ug/L | | | 04/25/25 14:56 | 2 |
| Trichloroethene | ND | | 10 | 0.92 | ug/L | | | 04/25/25 14:56 | 2 |
| Vinyl chloride | ND | | 10 | 1.8 | ug/L | | | 04/25/25 14:56 | 2 |
| **Xylenes, Total** | **1.7** | **J** | 10 | 1.3 | ug/L | | | 04/25/25 14:56 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *77 - 120* | | *04/25/25 14:56* | *2* |
| *Toluene-d8 (Surr)* | *98* | | *80 - 120* | | *04/25/25 14:56* | *2* |
| *4-Bromofluorobenzene (Surr)* | *86* | | *73 - 120* | | *04/25/25 14:56* | *2* |
| *Dibromofluoromethane (Surr)* | *97* | | *75 - 123* | | *04/25/25 14:56* | *2* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,2,4-Trichlorobenzene** | **17** | **J** | 19 | 4.4 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| **1,2-Dichlorobenzene** | **15** | **J** | 19 | 4.0 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| **1,3-Dichlorobenzene** | **17** | **J** | 19 | 4.8 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| **1,4-Dichlorobenzene** | **47** | | 44 | 4.6 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |

## Client Sample ID: EX-1

**Date Collected: 04/20/25 13:00**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-6

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 57 | 5.2 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| **1,4-Dioxane** | **31** | **J** | 100 | 11 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 2,4,5-Trichlorophenol | ND | | 100 | 4.8 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 2,4,6-Trichlorophenol | ND | | 31 | 6.1 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 2,4-Dichlorophenol | ND | | 28 | 5.1 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 2,4-Dimethylphenol | ND | | 28 | 5.0 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 2,4-Dinitrophenol | ND | | 430 | 22 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 2,4-Dinitrotoluene | ND | | 58 | 4.5 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 2,6-Dinitrotoluene | ND | | 19 | 4.0 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 2-Chloronaphthalene | ND | | 19 | 4.6 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 2-Chlorophenol | ND | | 33 | 5.3 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 2-Methylnaphthalene | ND | | 100 | 6.0 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 2-Methylphenol | ND | | 100 | 4.0 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 2-Nitroaniline | ND | | 100 | 4.2 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 2-Nitrophenol | ND | | 36 | 4.8 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 3,3'-Dichlorobenzidine | ND | | 170 | 4.0 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 3-Nitroaniline | ND | | 100 | 4.8 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 4,6-Dinitro-2-methylphenol | ND | | 240 | 22 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 4-Bromophenyl phenyl ether | ND | | 18 | 4.5 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 4-Chloro-3-methylphenol | ND | | 30 | 4.5 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 4-Chloroaniline | ND | | 20 | 5.9 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 4-Chlorophenyl phenyl ether | ND | | 43 | 3.5 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 4-Methylphenol | ND | | 100 | 3.6 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 4-Nitroaniline | ND | | 100 | 2.5 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| 4-Nitrophenol | ND | | 30 | 15 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Acenaphthene | ND | | 18 | 4.1 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Acenaphthylene | ND | | 35 | 3.8 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Anthracene | ND | | 18 | 2.8 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Benzo(a)anthracene | ND | | 78 | 3.6 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Benzo(a)pyrene | ND | | 26 | 4.7 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Benzo(b)fluoranthene | ND | | 100 | 3.4 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Benzo(ghi)perylene | ND | | 41 | 3.5 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Benzo(k)fluoranthene | ND | | 25 | 7.3 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Benzyl alcohol | ND | | 70 | 4.4 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Bis(2-chloroethoxy)methane | ND | | 53 | 3.5 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Bis(2-chloroethyl)ether | ND | | 57 | 4.0 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Bis(2-ethylhexyl) phthalate | ND | | 100 | 18 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Butyl benzyl phthalate | ND | | 100 | 4.2 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Chrysene | ND | | 25 | 3.3 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Dibenzo(a,h)anthracene | ND | | 100 | 4.2 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Dibenzofuran | ND | | 100 | 5.1 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Diethyl phthalate | ND | | 100 | 2.2 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Dimethyl phthalate | ND | | 100 | 3.6 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Di-n-butyl phthalate | ND | | 100 | 3.1 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Di-n-octyl phthalate | ND | | 100 | 4.7 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Fluoranthene | ND | | 22 | 4.0 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Fluorene | ND | | 19 | 3.6 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Hexachlorobenzene | ND | | 22 | 5.1 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Benzoic acid | ND | | 1000 | 1000 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |

## Client Sample ID: EX-1
**Lab Sample ID: 480-228881-6**

**Date Collected: 04/20/25 13:00**
**Matrix: Water**
**Date Received: 04/22/25 09:15**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 26 | 6.8 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Hexachlorocyclopentadiene | ND | | 100 | 5.9 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Hexachloroethane | ND | | 28 | 5.9 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Indeno(1,2,3-cd)pyrene | ND | | 48 | 4.7 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Isophorone | ND | | 22 | 4.3 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Carbazole | ND | | 100 | 3.0 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Naphthalene | ND | | 16 | 7.6 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Nitrobenzene | ND | | 20 | 2.9 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| N-Nitrosodi-n-propylamine | ND | | 50 | 5.4 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| N-Nitrosodiphenylamine | ND | | 19 | 5.1 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Pentachlorophenol | ND | | 51 | 22 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Phenanthrene | ND | | 50 | 4.4 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Phenol | ND | | 25 | 3.9 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |
| Pyrene | ND | | 19 | 3.4 | ug/L | | 04/25/25 13:45 | 04/28/25 20:34 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *59* | | *29 - 129* | *04/25/25 13:45* | *04/28/25 20:34* | *10* |
| *2-Fluorobiphenyl* | *78* | | *53 - 126* | *04/25/25 13:45* | *04/28/25 20:34* | *10* |
| *p-Terphenyl-d14* | *68* | | *33 - 132* | *04/25/25 13:45* | *04/28/25 20:34* | *10* |
| *Phenol-d5* | *29* | | *10 - 120* | *04/25/25 13:45* | *04/28/25 20:34* | *10* |
| *2-Fluorophenol* | *53* | | *24 - 120* | *04/25/25 13:45* | *04/28/25 20:34* | *10* |
| *2,4,6-Tribromophenol* | *72* | | *25 - 144* | *04/25/25 13:45* | *04/28/25 20:34* | *10* |

### Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **GRO (C6-C10)** | **230** | **J** | 500 | 180 | ug/L | | | 05/01/25 21:58 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *93* | | *63 - 135* | | *05/01/25 21:58* | *10* |

### Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 930 | 580 | ug/L | | 04/25/25 08:27 | 04/26/25 16:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *85* | | *32 - 125* | *04/25/25 08:27* | *04/26/25 16:04* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.039** | | 0.010 | 0.0056 | mg/L | | 04/23/25 08:24 | 04/23/25 23:32 | 1 |
| **Iron** | **25.4** | | 0.15 | 0.019 | mg/L | | 04/23/25 08:24 | 04/23/25 23:32 | 1 |
| **Manganese** | **9.1** | | 0.0050 | 0.00040 | mg/L | | 04/23/25 08:24 | 04/23/25 23:32 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **69.7** | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:02 | 1 |
| **Ammonia (EPA 350.1)** | **1.8** | | 0.050 | 0.0090 | mg/L | | | 04/23/25 13:19 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.031** | **J** | 0.050 | 0.020 | mg/L | | | 04/23/25 19:40 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **2.7** | **J** | 5.0 | 1.5 | mg/L | | | 04/30/25 14:01 | 1 |
| **Total Organic Carbon (SM 5310C)** | **3.0** | | 1.0 | 0.43 | mg/L | | | 04/23/25 05:18 | 1 |

## Client Sample ID: FDUP-01-GW

**Date Collected: 04/22/25 00:00**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-1

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 03:01 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 03:01 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 03:01 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 04/25/25 03:01 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 03:01 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 04/25/25 03:01 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 03:01 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 03:01 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 04/25/25 03:01 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 04/25/25 03:01 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 03:01 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 03:01 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 03:01 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 03:01 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 03:01 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 03:01 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 03:01 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 03:01 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 03:01 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 03:01 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 04/25/25 03:01 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 03:01 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 03:01 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 03:01 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 03:01 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/25/25 03:01 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 03:01 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 03:01 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 03:01 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 03:01 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 03:01 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 03:01 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 03:01 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 03:01 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/25/25 03:01 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 03:01 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 03:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *77 - 120* | | *04/25/25 03:01* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *04/25/25 03:01* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *73 - 120* | | *04/25/25 03:01* | *1* |
| *Dibromofluoromethane (Surr)* | *100* | | *75 - 123* | | *04/25/25 03:01* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | | 1.9 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.9 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 1,4-Dichlorobenzene | ND | | 4.4 | 0.46 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: FDUP-01-GW**
**Date Collected: 04/22/25 00:00**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-1**
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 1,4-Dioxane | ND | | 10 | 1.1 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |

## Client Sample ID: FDUP-01-GW

**Date Collected: 04/22/25 00:00**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-1

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/28/25 09:29 | 04/28/25 22:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *61* | | *29 - 129* | *04/28/25 09:29* | *04/28/25 22:00* | *1* |
| *2-Fluorobiphenyl* | *73* | | *53 - 126* | *04/28/25 09:29* | *04/28/25 22:00* | *1* |
| *p-Terphenyl-d14* | *78* | | *33 - 132* | *04/28/25 09:29* | *04/28/25 22:00* | *1* |
| *Phenol-d5* | *30* | | *10 - 120* | *04/28/25 09:29* | *04/28/25 22:00* | *1* |
| *2-Fluorophenol* | *42* | | *24 - 120* | *04/28/25 09:29* | *04/28/25 22:00* | *1* |
| *2,4,6-Tribromophenol* | *84* | | *25 - 144* | *04/28/25 09:29* | *04/28/25 22:00* | *1* |

### Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C10) | ND | | 50 | 18 | ug/L | | | 04/30/25 03:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *97* | | *63 - 135* | | *04/30/25 03:09* | *1* |

### Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 930 | 580 | ug/L | | 04/29/25 15:58 | 05/01/25 05:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *78* | | *32 - 125* | *04/29/25 15:58* | *05/01/25 05:31* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.0058** | **J** | 0.010 | 0.0056 | mg/L | | 04/24/25 08:55 | 04/24/25 17:23 | 1 |
| **Iron** | **0.53** | **B** | 0.15 | 0.019 | mg/L | | 04/24/25 08:55 | 04/25/25 11:32 | 1 |
| **Manganese** | **1.6** | **B** | 0.0050 | 0.00040 | mg/L | | 04/24/25 08:55 | 04/24/25 17:23 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **75.2** | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:04 | 1 |
| Ammonia (EPA 350.1) | ND | | 0.050 | 0.0090 | mg/L | | | 04/23/25 17:07 | 1 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 04/23/25 19:42 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **14.8** | | 5.0 | 1.5 | mg/L | | | 04/30/25 14:02 | 1 |
| **Total Organic Carbon (SM 5310C)** | **0.55** | **J** | 1.0 | 0.43 | mg/L | | | 04/25/25 06:46 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: MW-10

**Date Collected: 04/21/25 11:00**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-2

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 03:24 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 03:24 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 03:24 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 04/25/25 03:24 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 03:24 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 04/25/25 03:24 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 03:24 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 03:24 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 04/25/25 03:24 | 1 |
| **1,4-Dichlorobenzene** | **1.2** | **J** | 5.0 | 0.84 | ug/L | | | 04/25/25 03:24 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 03:24 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 03:24 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 03:24 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 03:24 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 03:24 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 03:24 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 03:24 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 03:24 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 03:24 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 03:24 | 1 |
| **Chlorobenzene** | **6.2** | | 5.0 | 0.75 | ug/L | | | 04/25/25 03:24 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 03:24 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 03:24 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 03:24 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 03:24 | 1 |
| **cis-1,2-Dichloroethene** | **0.88** | **J** | 1.0 | 0.81 | ug/L | | | 04/25/25 03:24 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 03:24 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 03:24 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 03:24 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 03:24 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 03:24 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 03:24 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 03:24 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 03:24 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/25/25 03:24 | 1 |
| **Vinyl chloride** | **1.7** | **J** | 5.0 | 0.90 | ug/L | | | 04/25/25 03:24 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 03:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *77 - 120* | | *04/25/25 03:24* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *04/25/25 03:24* | *1* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *73 - 120* | | *04/25/25 03:24* | *1* |
| *Dibromofluoromethane (Surr)* | *98* | | *75 - 123* | | *04/25/25 03:24* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | | 1.9 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.9 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| **1,4-Dichlorobenzene** | **0.82** | **J** | 4.4 | 0.46 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-10**
**Date Collected: 04/21/25 11:00**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-2**
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| **1,4-Dioxane** | **60** | | 10 | 1.1 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |

## Client Sample ID: MW-10
**Date Collected: 04/21/25 11:00**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-2
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/28/25 09:29 | 04/28/25 22:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *68* | | *29 - 129* | *04/28/25 09:29* | *04/28/25 22:28* | *1* |
| *2-Fluorobiphenyl* | *79* | | *53 - 126* | *04/28/25 09:29* | *04/28/25 22:28* | *1* |
| *p-Terphenyl-d14* | *70* | | *33 - 132* | *04/28/25 09:29* | *04/28/25 22:28* | *1* |
| *Phenol-d5* | *32* | | *10 - 120* | *04/28/25 09:29* | *04/28/25 22:28* | *1* |
| *2-Fluorophenol* | *48* | | *24 - 120* | *04/28/25 09:29* | *04/28/25 22:28* | *1* |
| *2,4,6-Tribromophenol* | *96* | | *25 - 144* | *04/28/25 09:29* | *04/28/25 22:28* | *1* |

### Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C10) | ND | | 50 | 18 | ug/L | | | 05/01/25 21:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *101* | | *63 - 135* | | *05/01/25 21:08* | *1* |

### Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 970 | 600 | ug/L | | 04/25/25 08:27 | 04/26/25 16:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *87* | | *32 - 125* | *04/25/25 08:27* | *04/26/25 16:26* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.049** | | 0.010 | 0.0056 | mg/L | | 04/24/25 08:55 | 04/24/25 17:25 | 1 |
| **Iron** | **19.4** | **B** | 0.15 | 0.019 | mg/L | | 04/24/25 08:55 | 04/25/25 11:34 | 1 |
| **Manganese** | **14.2** | **B** | 0.0050 | 0.00040 | mg/L | | 04/24/25 08:55 | 04/24/25 17:25 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **81.1** | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:05 | 1 |
| **Ammonia (EPA 350.1)** | **0.87** | | 0.050 | 0.0090 | mg/L | | | 04/23/25 17:08 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.034** | **J** | 0.050 | 0.020 | mg/L | | | 04/23/25 19:44 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **15.3** | | 5.0 | 1.5 | mg/L | | | 04/30/25 14:06 | 1 |
| **Total Organic Carbon (SM 5310C)** | **4.0** | | 1.0 | 0.43 | mg/L | | | 04/25/25 07:43 | 1 |

## Client Sample ID: MW-11

**Date Collected: 04/21/25 10:10**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-3

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 03:47 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 03:47 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 03:47 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 04/25/25 03:47 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 03:47 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 04/25/25 03:47 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 03:47 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 03:47 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 04/25/25 03:47 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 04/25/25 03:47 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 03:47 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 03:47 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 03:47 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 03:47 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 03:47 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 03:47 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 03:47 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 03:47 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 03:47 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 03:47 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 04/25/25 03:47 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 03:47 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 03:47 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 03:47 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 03:47 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/25/25 03:47 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 03:47 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 03:47 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 03:47 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 03:47 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 03:47 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 03:47 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 03:47 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 03:47 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/25/25 03:47 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 03:47 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 03:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *107* | | *77 - 120* | | *04/25/25 03:47* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *04/25/25 03:47* | *1* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *73 - 120* | | *04/25/25 03:47* | *1* |
| *Dibromofluoromethane (Surr)* | *100* | | *75 - 123* | | *04/25/25 03:47* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | | 1.9 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.9 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 1,4-Dichlorobenzene | ND | | 4.4 | 0.46 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-11**
**Date Collected: 04/21/25 10:10**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-3**
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 1,4-Dioxane | ND | | 10 | 1.1 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |

## Client Sample ID: MW-11

**Date Collected: 04/21/25 10:10**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-3

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/28/25 09:29 | 04/28/25 22:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *66* | | *29 - 129* | *04/28/25 09:29* | *04/28/25 22:55* | *1* |
| *2-Fluorobiphenyl* | *79* | | *53 - 126* | *04/28/25 09:29* | *04/28/25 22:55* | *1* |
| *p-Terphenyl-d14* | *79* | | *33 - 132* | *04/28/25 09:29* | *04/28/25 22:55* | *1* |
| *Phenol-d5* | *30* | | *10 - 120* | *04/28/25 09:29* | *04/28/25 22:55* | *1* |
| *2-Fluorophenol* | *45* | | *24 - 120* | *04/28/25 09:29* | *04/28/25 22:55* | *1* |
| *2,4,6-Tribromophenol* | *84* | | *25 - 144* | *04/28/25 09:29* | *04/28/25 22:55* | *1* |

### Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C10) | ND | | 50 | 18 | ug/L | | | 05/01/25 21:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *96* | | *63 - 135* | | *05/01/25 21:33* | *1* |

### Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 940 | 590 | ug/L | | 04/25/25 08:27 | 04/26/25 16:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *87* | | *32 - 125* | *04/25/25 08:27* | *04/26/25 16:49* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 04/24/25 08:55 | 04/24/25 17:27 | 1 |
| **Iron** | **1.1** | **B** | 0.15 | 0.019 | mg/L | | 04/24/25 08:55 | 04/25/25 11:36 | 1 |
| **Manganese** | **0.80** | **B** | 0.0050 | 0.00040 | mg/L | | 04/24/25 08:55 | 04/24/25 17:27 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **60.9** | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:05 | 1 |
| Ammonia (EPA 350.1) | ND | | 0.050 | 0.0090 | mg/L | | | 04/23/25 17:09 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.026** | **J F1** | 0.050 | 0.020 | mg/L | | | 04/23/25 19:54 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **11.5** | | 5.0 | 1.5 | mg/L | | | 04/30/25 14:06 | 1 |
| **Total Organic Carbon (SM 5310C)** | **0.53** | **J** | 1.0 | 0.43 | mg/L | | | 04/25/25 13:27 | 1 |

## Client Sample ID: MW-18A

**Date Collected: 04/21/25 14:30**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-4

**Matrix: Ground Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 04:11 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 04:11 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 04:11 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 04/25/25 04:11 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 04:11 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 04/25/25 04:11 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 04:11 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 04:11 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 04/25/25 04:11 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 04/25/25 04:11 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 04:11 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 04:11 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 04:11 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 04:11 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 04:11 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 04:11 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 04:11 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 04:11 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 04:11 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 04:11 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 04/25/25 04:11 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 04:11 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 04:11 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 04:11 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 04:11 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/25/25 04:11 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 04:11 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 04:11 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 04:11 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 04:11 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 04:11 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 04:11 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 04:11 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 04:11 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/25/25 04:11 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 04:11 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 04:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *77 - 120* | | *04/25/25 04:11* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *04/25/25 04:11* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *73 - 120* | | *04/25/25 04:11* | *1* |
| *Dibromofluoromethane (Surr)* | *100* | | *75 - 123* | | *04/25/25 04:11* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | | 1.9 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.9 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 1,4-Dichlorobenzene | ND | | 4.4 | 0.46 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-18A**
**Date Collected: 04/21/25 14:30**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-4**
**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 1,4-Dioxane | ND | | 10 | 1.1 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |

**Client Sample ID: MW-18A**
**Date Collected: 04/21/25 14:30**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-4**
**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/28/25 09:29 | 04/28/25 23:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *67* | | *29 - 129* | *04/28/25 09:29* | *04/28/25 23:23* | *1* |
| *2-Fluorobiphenyl* | *79* | | *53 - 126* | *04/28/25 09:29* | *04/28/25 23:23* | *1* |
| *p-Terphenyl-d14* | *66* | | *33 - 132* | *04/28/25 09:29* | *04/28/25 23:23* | *1* |
| *Phenol-d5* | *32* | | *10 - 120* | *04/28/25 09:29* | *04/28/25 23:23* | *1* |
| *2-Fluorophenol* | *46* | | *24 - 120* | *04/28/25 09:29* | *04/28/25 23:23* | *1* |
| *2,4,6-Tribromophenol* | *81* | | *25 - 144* | *04/28/25 09:29* | *04/28/25 23:23* | *1* |

## Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.0083** | **J** | 0.010 | 0.0056 | mg/L | | 04/24/25 08:55 | 04/24/25 17:29 | 1 |
| **Iron** | **0.19** | **B** | 0.15 | 0.019 | mg/L | | 04/24/25 08:55 | 04/25/25 11:37 | 1 |
| **Manganese** | **1.7** | **B** | 0.0050 | 0.00040 | mg/L | | 04/24/25 08:55 | 04/24/25 17:29 | 1 |

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **93.8** | **B** | 25.0 | 20.0 | mg/L | | | 04/24/25 11:31 | 5 |
| Ammonia (EPA 350.1) | ND | | 0.050 | 0.0090 | mg/L | | | 04/23/25 17:09 | 1 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 04/23/25 20:00 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **16.9** | | 5.0 | 1.5 | mg/L | | | 04/30/25 14:06 | 1 |
| **Total Organic Carbon (SM 5310C)** | **0.69** | **J** | 1.0 | 0.43 | mg/L | | | 04/25/25 14:24 | 1 |

## Client Sample ID: MW-18B

**Date Collected: 04/21/25 12:15**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-5

**Matrix: Ground Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 04:34 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 04:34 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 04:34 | 1 |
| **1,1-Dichloroethane** | **10** | | 5.0 | 0.38 | ug/L | | | 04/25/25 04:34 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 04:34 | 1 |
| **1,2-Dichlorobenzene** | **7.2** | | 5.0 | 0.79 | ug/L | | | 04/25/25 04:34 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 04:34 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 04:34 | 1 |
| **1,3-Dichlorobenzene** | **10** | | 5.0 | 0.78 | ug/L | | | 04/25/25 04:34 | 1 |
| **1,4-Dichlorobenzene** | **24** | | 5.0 | 0.84 | ug/L | | | 04/25/25 04:34 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 04:34 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 04:34 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 04:34 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 04:34 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 04:34 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 04:34 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 04:34 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 04:34 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 04:34 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 04:34 | 1 |
| **Chlorobenzene** | **45** | | 5.0 | 0.75 | ug/L | | | 04/25/25 04:34 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 04:34 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 04:34 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 04:34 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 04:34 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/25/25 04:34 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 04:34 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 04:34 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 04:34 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 04:34 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 04:34 | 1 |
| **Toluene** | **0.62** | **J** | 5.0 | 0.51 | ug/L | | | 04/25/25 04:34 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 04:34 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 04:34 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/25/25 04:34 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 04:34 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 04:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *77 - 120* | | *04/25/25 04:34* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* | | *04/25/25 04:34* | *1* |
| *4-Bromofluorobenzene (Surr)* | *89* | | *73 - 120* | | *04/25/25 04:34* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *75 - 123* | | *04/25/25 04:34* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,2,4-Trichlorobenzene** | **5.9** | **B** | 1.9 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| **1,2-Dichlorobenzene** | **4.7** | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| **1,3-Dichlorobenzene** | **6.0** | | 1.9 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| **1,4-Dichlorobenzene** | **14** | | 4.4 | 0.46 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-18B**
**Date Collected: 04/21/25 12:15**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-5**
**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| **1,4-Dioxane** | **10** | | 10 | 1.1 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| **2,4-Dichlorophenol** | **0.56** | **J** | 2.8 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |

**Client Sample ID: MW-18B**
**Date Collected: 04/21/25 12:15**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-5**
**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/28/25 09:29 | 04/28/25 23:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *67* | | *29 - 129* | *04/28/25 09:29* | *04/28/25 23:50* | *1* |
| *2-Fluorobiphenyl* | *78* | | *53 - 126* | *04/28/25 09:29* | *04/28/25 23:50* | *1* |
| *p-Terphenyl-d14* | *65* | | *33 - 132* | *04/28/25 09:29* | *04/28/25 23:50* | *1* |
| *Phenol-d5* | *34* | | *10 - 120* | *04/28/25 09:29* | *04/28/25 23:50* | *1* |
| *2-Fluorophenol* | *49* | | *24 - 120* | *04/28/25 09:29* | *04/28/25 23:50* | *1* |
| *2,4,6-Tribromophenol* | *95* | | *25 - 144* | *04/28/25 09:29* | *04/28/25 23:50* | *1* |

## Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.061** | | 0.010 | 0.0056 | mg/L | | 04/24/25 08:55 | 04/24/25 17:36 | 1 |
| **Iron** | **43.3** | **B** | 0.15 | 0.019 | mg/L | | 04/24/25 08:55 | 04/25/25 11:39 | 1 |
| **Manganese** | **11.0** | **B** | 0.0050 | 0.00040 | mg/L | | 04/24/25 08:55 | 04/24/25 17:36 | 1 |

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **97.5** | | 25.0 | 20.0 | mg/L | | | 04/24/25 09:48 | 5 |
| **Ammonia (EPA 350.1)** | **1.1** | | 0.050 | 0.0090 | mg/L | | | 04/23/25 17:11 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.046** | **J** | 0.050 | 0.020 | mg/L | | | 04/23/25 20:02 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **13.1** | | 5.0 | 1.5 | mg/L | | | 04/30/25 14:07 | 1 |
| **Total Organic Carbon (SM 5310C)** | **4.0** | | 1.0 | 0.43 | mg/L | | | 04/25/25 18:14 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: MW-18C

**Date Collected: 04/21/25 12:50**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-6

**Matrix: Ground Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 04:57 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 04:57 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 04:57 | 1 |
| **1,1-Dichloroethane** | **1.7** | **J** | 5.0 | 0.38 | ug/L | | | 04/25/25 04:57 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 04:57 | 1 |
| **1,2-Dichlorobenzene** | **1.1** | **J** | 5.0 | 0.79 | ug/L | | | 04/25/25 04:57 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 04:57 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 04:57 | 1 |
| **1,3-Dichlorobenzene** | **1.5** | **J** | 5.0 | 0.78 | ug/L | | | 04/25/25 04:57 | 1 |
| **1,4-Dichlorobenzene** | **3.8** | **J** | 5.0 | 0.84 | ug/L | | | 04/25/25 04:57 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 04:57 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 04:57 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 04:57 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 04:57 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 04:57 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 04:57 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 04:57 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 04:57 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 04:57 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 04:57 | 1 |
| **Chlorobenzene** | **4.9** | **J** | 5.0 | 0.75 | ug/L | | | 04/25/25 04:57 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 04:57 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 04:57 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 04:57 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 04:57 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/25/25 04:57 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 04:57 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 04:57 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 04:57 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 04:57 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 04:57 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 04:57 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 04:57 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 04:57 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/25/25 04:57 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 04:57 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 04:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *77 - 120* | | *04/25/25 04:57* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *04/25/25 04:57* | *1* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *73 - 120* | | *04/25/25 04:57* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *75 - 123* | | *04/25/25 04:57* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,2,4-Trichlorobenzene** | **1.4** | **J B** | 1.9 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| **1,2-Dichlorobenzene** | **0.85** | **J** | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| **1,3-Dichlorobenzene** | **1.2** | **J** | 1.9 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| **1,4-Dichlorobenzene** | **2.8** | **J** | 4.4 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-18C**
**Date Collected: 04/21/25 12:50**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-6**
**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| **1,4-Dioxane** | **5.5** | **J** | 10 | 1.1 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |

**Client Sample ID: MW-18C**
**Date Collected: 04/21/25 12:50**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-6**
**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 00:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *69* | | *29 - 129* | *04/28/25 09:29* | *04/29/25 00:18* | *1* |
| *2-Fluorobiphenyl* | *83* | | *53 - 126* | *04/28/25 09:29* | *04/29/25 00:18* | *1* |
| *p-Terphenyl-d14* | *73* | | *33 - 132* | *04/28/25 09:29* | *04/29/25 00:18* | *1* |
| *Phenol-d5* | *36* | | *10 - 120* | *04/28/25 09:29* | *04/29/25 00:18* | *1* |
| *2-Fluorophenol* | *51* | | *24 - 120* | *04/28/25 09:29* | *04/29/25 00:18* | *1* |
| *2,4,6-Tribromophenol* | *86* | | *25 - 144* | *04/28/25 09:29* | *04/29/25 00:18* | *1* |

## Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.0092** | **J** | 0.010 | 0.0056 | mg/L | | 04/24/25 08:55 | 04/24/25 17:38 | 1 |
| **Iron** | **7.8** | **B** | 0.15 | 0.019 | mg/L | | 04/24/25 08:55 | 04/25/25 11:41 | 1 |
| **Manganese** | **7.5** | **B** | 0.0050 | 0.00040 | mg/L | | 04/24/25 08:55 | 04/24/25 17:38 | 1 |

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **30.0** | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:15 | 1 |
| **Ammonia (EPA 350.1)** | **0.58** | **F1** | 0.050 | 0.0090 | mg/L | | | 04/23/25 17:13 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.042** | **J** | 0.050 | 0.020 | mg/L | | | 04/23/25 20:04 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **12.4** | | 5.0 | 1.5 | mg/L | | | 04/30/25 14:09 | 1 |
| **Total Organic Carbon (SM 5310C)** | **1.1** | | 1.0 | 0.43 | mg/L | | | 04/25/25 19:11 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: MW-19

**Date Collected: 04/22/25 12:40**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-7

**Matrix: Ground Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 05:20 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 05:20 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 05:20 | 1 |
| **1,1-Dichloroethane** | **3.2** | **J** | 5.0 | 0.38 | ug/L | | | 04/25/25 05:20 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 05:20 | 1 |
| **1,2-Dichlorobenzene** | **2.5** | **J** | 5.0 | 0.79 | ug/L | | | 04/25/25 05:20 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 05:20 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 05:20 | 1 |
| **1,3-Dichlorobenzene** | **2.6** | **J** | 5.0 | 0.78 | ug/L | | | 04/25/25 05:20 | 1 |
| **1,4-Dichlorobenzene** | **8.0** | | 5.0 | 0.84 | ug/L | | | 04/25/25 05:20 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 05:20 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 05:20 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 05:20 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 05:20 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 05:20 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 05:20 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 05:20 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 05:20 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 05:20 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 05:20 | 1 |
| **Chlorobenzene** | **15** | | 5.0 | 0.75 | ug/L | | | 04/25/25 05:20 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 05:20 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 05:20 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 05:20 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 05:20 | 1 |
| **cis-1,2-Dichloroethene** | **2.7** | | 1.0 | 0.81 | ug/L | | | 04/25/25 05:20 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 05:20 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 05:20 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 05:20 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 05:20 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 05:20 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 05:20 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 05:20 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 05:20 | 1 |
| **Trichloroethene** | **0.67** | **J** | 5.0 | 0.46 | ug/L | | | 04/25/25 05:20 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 05:20 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 05:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *77 - 120* | | *04/25/25 05:20* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *04/25/25 05:20* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *73 - 120* | | *04/25/25 05:20* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *75 - 123* | | *04/25/25 05:20* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,2,4-Trichlorobenzene** | **2.6** | **B** | 1.9 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| **1,2-Dichlorobenzene** | **2.1** | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| **1,3-Dichlorobenzene** | **2.1** | | 1.9 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| **1,4-Dichlorobenzene** | **6.3** | | 4.4 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-19**
**Date Collected: 04/22/25 12:40**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-7**
**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| **1,4-Dioxane** | **19** | | 10 | 1.1 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |

**Client Sample ID: MW-19**
**Date Collected: 04/22/25 12:40**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-7**
**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 00:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *69* | | *29 - 129* | *04/28/25 09:29* | *04/29/25 00:46* | *1* |
| *2-Fluorobiphenyl* | *85* | | *53 - 126* | *04/28/25 09:29* | *04/29/25 00:46* | *1* |
| *p-Terphenyl-d14* | *72* | | *33 - 132* | *04/28/25 09:29* | *04/29/25 00:46* | *1* |
| *Phenol-d5* | *34* | | *10 - 120* | *04/28/25 09:29* | *04/29/25 00:46* | *1* |
| *2-Fluorophenol* | *49* | | *24 - 120* | *04/28/25 09:29* | *04/29/25 00:46* | *1* |
| *2,4,6-Tribromophenol* | *96* | | *25 - 144* | *04/28/25 09:29* | *04/29/25 00:46* | *1* |

## Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.0092** | **J** | 0.010 | 0.0056 | mg/L | | 04/24/25 08:55 | 04/24/25 17:40 | 1 |
| **Iron** | **4.5** | **B** | 0.15 | 0.019 | mg/L | | 04/24/25 08:55 | 04/25/25 11:43 | 1 |
| **Manganese** | **17.6** | **B** | 0.0050 | 0.00040 | mg/L | | 04/24/25 08:55 | 04/24/25 17:40 | 1 |

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **68.9** | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:08 | 1 |
| **Ammonia (EPA 350.1)** | **0.25** | | 0.050 | 0.0090 | mg/L | | | 04/23/25 17:14 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.023** | **J** | 0.050 | 0.020 | mg/L | | | 04/23/25 20:06 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **20.6** | | 5.0 | 1.5 | mg/L | | | 04/30/25 13:48 | 1 |
| **Total Organic Carbon (SM 5310C)** | **1.6** | | 1.0 | 0.43 | mg/L | | | 04/25/25 20:08 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: MW-1A

**Date Collected: 04/22/25 11:05**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-8

**Matrix: Ground Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 05:44 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 05:44 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 05:44 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 04/25/25 05:44 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 05:44 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 04/25/25 05:44 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 05:44 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 05:44 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 04/25/25 05:44 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 04/25/25 05:44 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 05:44 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 05:44 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 05:44 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 05:44 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 05:44 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 05:44 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 05:44 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 05:44 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 05:44 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 05:44 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 04/25/25 05:44 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 05:44 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 05:44 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 05:44 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 05:44 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/25/25 05:44 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 05:44 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 05:44 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 05:44 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 05:44 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 05:44 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 05:44 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 05:44 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 05:44 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/25/25 05:44 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 05:44 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 05:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *107* | | *77 - 120* | | *04/25/25 05:44* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *04/25/25 05:44* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *73 - 120* | | *04/25/25 05:44* | *1* |
| *Dibromofluoromethane (Surr)* | *98* | | *75 - 123* | | *04/25/25 05:44* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | | 1.9 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.9 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 1,4-Dichlorobenzene | ND | | 4.4 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |

**Client Sample ID: MW-1A**
**Date Collected: 04/22/25 11:05**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-8**
**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 1,4-Dioxane | ND | | 10 | 1.1 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |

## Client Sample ID: MW-1A

**Date Collected: 04/22/25 11:05**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-8

**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 01:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *71* | | *29 - 129* | *04/28/25 09:29* | *04/29/25 01:13* | *1* |
| *2-Fluorobiphenyl* | *78* | | *53 - 126* | *04/28/25 09:29* | *04/29/25 01:13* | *1* |
| *p-Terphenyl-d14* | *78* | | *33 - 132* | *04/28/25 09:29* | *04/29/25 01:13* | *1* |
| *Phenol-d5* | *34* | | *10 - 120* | *04/28/25 09:29* | *04/29/25 01:13* | *1* |
| *2-Fluorophenol* | *48* | | *24 - 120* | *04/28/25 09:29* | *04/29/25 01:13* | *1* |
| *2,4,6-Tribromophenol* | *89* | | *25 - 144* | *04/28/25 09:29* | *04/29/25 01:13* | *1* |

### Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C10) | ND | | 50 | 18 | ug/L | | | 04/30/25 03:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *97* | | *63 - 135* | | *04/30/25 03:35* | *1* |

### Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 910 | 570 | ug/L | | 04/29/25 15:58 | 05/01/25 05:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *78* | | *32 - 125* | *04/29/25 15:58* | *05/01/25 05:54* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 04/24/25 08:55 | 04/24/25 17:42 | 1 |
| **Iron** | **0.61** | **B** | 0.15 | 0.019 | mg/L | | 04/24/25 08:55 | 04/25/25 11:59 | 1 |
| **Manganese** | **1.6** | **B** | 0.0050 | 0.00040 | mg/L | | 04/24/25 08:55 | 04/24/25 17:42 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **75.5** | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:08 | 1 |
| **Ammonia (EPA 350.1)** | **0.068** | | 0.050 | 0.0090 | mg/L | | | 04/23/25 17:16 | 1 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 04/23/25 20:08 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **14.7** | | 5.0 | 1.5 | mg/L | | | 04/30/25 13:48 | 1 |
| **Total Organic Carbon (SM 5310C)** | **0.56** | **J** | 1.0 | 0.43 | mg/L | | | 04/25/25 20:37 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: MW-1B

**Date Collected: 04/22/25 11:00**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-9

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 06:07 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 06:07 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 06:07 | 1 |
| **1,1-Dichloroethane** | **5.9** | | 5.0 | 0.38 | ug/L | | | 04/25/25 06:07 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 06:07 | 1 |
| **1,2-Dichlorobenzene** | **8.3** | | 5.0 | 0.79 | ug/L | | | 04/25/25 06:07 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 06:07 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 06:07 | 1 |
| **1,3-Dichlorobenzene** | **10** | | 5.0 | 0.78 | ug/L | | | 04/25/25 06:07 | 1 |
| **1,4-Dichlorobenzene** | **24** | | 5.0 | 0.84 | ug/L | | | 04/25/25 06:07 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 06:07 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 06:07 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 06:07 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 06:07 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 06:07 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 06:07 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 06:07 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 06:07 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 06:07 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 06:07 | 1 |
| **Chlorobenzene** | **40** | | 5.0 | 0.75 | ug/L | | | 04/25/25 06:07 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 06:07 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 06:07 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 06:07 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 06:07 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/25/25 06:07 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 06:07 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 06:07 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 06:07 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 06:07 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 06:07 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 06:07 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 06:07 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 06:07 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/25/25 06:07 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 06:07 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 06:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *77 - 120* | | *04/25/25 06:07* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *04/25/25 06:07* | *1* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *73 - 120* | | *04/25/25 06:07* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *75 - 123* | | *04/25/25 06:07* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,2,4-Trichlorobenzene** | **4.1** | **B** | 1.9 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| **1,2-Dichlorobenzene** | **5.8** | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| **1,3-Dichlorobenzene** | **6.6** | | 1.9 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| **1,4-Dichlorobenzene** | **16** | | 4.4 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-1B**
**Date Collected: 04/22/25 11:00**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-9**
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| **1,4-Dioxane** | **25** | | 10 | 1.1 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |

## Client Sample ID: MW-1B

**Date Collected: 04/22/25 11:00**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-9

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 01:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *67* | | *29 - 129* | *04/28/25 09:29* | *04/29/25 01:41* | *1* |
| *2-Fluorobiphenyl* | *76* | | *53 - 126* | *04/28/25 09:29* | *04/29/25 01:41* | *1* |
| *p-Terphenyl-d14* | *60* | | *33 - 132* | *04/28/25 09:29* | *04/29/25 01:41* | *1* |
| *Phenol-d5* | *32* | | *10 - 120* | *04/28/25 09:29* | *04/29/25 01:41* | *1* |
| *2-Fluorophenol* | *46* | | *24 - 120* | *04/28/25 09:29* | *04/29/25 01:41* | *1* |
| *2,4,6-Tribromophenol* | *93* | | *25 - 144* | *04/28/25 09:29* | *04/29/25 01:41* | *1* |

### Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **GRO (C6-C10)** | **64** | | 50 | 18 | ug/L | | | 04/30/25 04:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *96* | | *63 - 135* | | *04/30/25 04:00* | *1* |

### Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 950 | 590 | ug/L | | 04/29/25 15:58 | 05/01/25 06:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *77* | | *32 - 125* | *04/29/25 15:58* | *05/01/25 06:17* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.034** | | 0.010 | 0.0056 | mg/L | | 04/24/25 08:55 | 04/24/25 17:44 | 1 |
| **Iron** | **20.7** | **B** | 0.15 | 0.019 | mg/L | | 04/24/25 08:55 | 04/25/25 12:01 | 1 |
| **Manganese** | **10.5** | **B** | 0.0050 | 0.00040 | mg/L | | 04/24/25 08:55 | 04/24/25 17:44 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **106** | | 25.0 | 20.0 | mg/L | | | 04/24/25 09:49 | 5 |
| **Ammonia (EPA 350.1)** | **3.4** | | 0.25 | 0.045 | mg/L | | | 04/24/25 14:12 | 5 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.029** | **J F1** | 0.050 | 0.020 | mg/L | | | 04/23/25 20:14 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **6.4** | | 5.0 | 1.5 | mg/L | | | 04/30/25 13:49 | 1 |
| **Total Organic Carbon (SM 5310C)** | **4.8** | | 1.0 | 0.43 | mg/L | | | 04/25/25 21:05 | 1 |

## Client Sample ID: MW-1C

**Date Collected: 04/22/25 11:30**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-10

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 06:31 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 06:31 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 06:31 | 1 |
| **1,1-Dichloroethane** | **0.82** | **J** | 5.0 | 0.38 | ug/L | | | 04/25/25 06:31 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 06:31 | 1 |
| **1,2-Dichlorobenzene** | **1.6** | **J** | 5.0 | 0.79 | ug/L | | | 04/25/25 06:31 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 06:31 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 06:31 | 1 |
| **1,3-Dichlorobenzene** | **1.7** | **J** | 5.0 | 0.78 | ug/L | | | 04/25/25 06:31 | 1 |
| **1,4-Dichlorobenzene** | **4.8** | **J** | 5.0 | 0.84 | ug/L | | | 04/25/25 06:31 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 06:31 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 06:31 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 06:31 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 06:31 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 06:31 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 06:31 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 06:31 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 06:31 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 06:31 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 06:31 | 1 |
| **Chlorobenzene** | **6.9** | | 5.0 | 0.75 | ug/L | | | 04/25/25 06:31 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 06:31 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 06:31 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 06:31 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 06:31 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/25/25 06:31 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 06:31 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 06:31 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 06:31 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 06:31 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 06:31 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 06:31 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 06:31 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 06:31 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/25/25 06:31 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 06:31 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 06:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *77 - 120* | | *04/25/25 06:31* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *04/25/25 06:31* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *73 - 120* | | *04/25/25 06:31* | *1* |
| *Dibromofluoromethane (Surr)* | *99* | | *75 - 123* | | *04/25/25 06:31* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,2,4-Trichlorobenzene** | **0.52** | **J B** | 1.9 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| **1,2-Dichlorobenzene** | **0.93** | **J** | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| **1,3-Dichlorobenzene** | **1.0** | **J** | 1.9 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| **1,4-Dichlorobenzene** | **3.1** | **J** | 4.4 | 0.46 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-1C**
**Date Collected: 04/22/25 11:30**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-10**
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| **1,4-Dioxane** | **4.9** | **J** | 10 | 1.1 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 3,3'-Dichlorobenzidine | ND | F2 | 17 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 4-Chloroaniline | ND | F2 | 2.0 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Benzyl alcohol | ND | F1 | 7.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |

## Client Sample ID: MW-1C

**Date Collected: 04/22/25 11:30**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-10

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/28/25 09:29 | 04/28/25 19:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *68* | | *29 - 129* | *04/28/25 09:29* | *04/28/25 19:43* | *1* |
| *2-Fluorobiphenyl* | *81* | | *53 - 126* | *04/28/25 09:29* | *04/28/25 19:43* | *1* |
| *p-Terphenyl-d14* | *71* | | *33 - 132* | *04/28/25 09:29* | *04/28/25 19:43* | *1* |
| *Phenol-d5* | *34* | | *10 - 120* | *04/28/25 09:29* | *04/28/25 19:43* | *1* |
| *2-Fluorophenol* | *50* | | *24 - 120* | *04/28/25 09:29* | *04/28/25 19:43* | *1* |
| *2,4,6-Tribromophenol* | *91* | | *25 - 144* | *04/28/25 09:29* | *04/28/25 19:43* | *1* |

### Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **GRO (C6-C10)** | **18** | **J** | 50 | 18 | ug/L | | | 04/29/25 19:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *95* | | *63 - 135* | | *04/29/25 19:56* | *1* |

### Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 950 | 590 | ug/L | | 04/29/25 15:58 | 04/30/25 21:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *76* | | *32 - 125* | *04/29/25 15:58* | *04/30/25 21:51* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.048** | | 0.010 | 0.0056 | mg/L | | 04/24/25 08:55 | 04/24/25 17:46 | 1 |
| **Iron** | **30.4** | **B** | 0.15 | 0.019 | mg/L | | 04/24/25 08:55 | 04/25/25 12:03 | 1 |
| **Manganese** | **14.0** | **B** | 0.0050 | 0.00040 | mg/L | | 04/24/25 08:55 | 04/24/25 17:46 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **50.6** | **F1 F2** | 25.0 | 20.0 | mg/L | | | 04/24/25 09:49 | 5 |
| **Ammonia (EPA 350.1)** | **1.7** | **F1** | 0.050 | 0.0090 | mg/L | | | 04/23/25 17:21 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.040** | **J F1** | 0.050 | 0.020 | mg/L | | | 04/23/25 20:37 | 1 |
| Sulfate (ASTM D516-90, 02) | ND | F1 | 5.0 | 1.5 | mg/L | | | 04/30/25 13:53 | 1 |
| **Total Organic Carbon (SM 5310C)** | **5.8** | | 1.0 | 0.43 | mg/L | | | 04/25/25 02:01 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: MW-21

**Date Collected: 04/21/25 12:30**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-11

**Matrix: Ground Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 06:54 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 06:54 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 06:54 | 1 |
| **1,1-Dichloroethane** | **5.1** | | 5.0 | 0.38 | ug/L | | | 04/25/25 06:54 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 06:54 | 1 |
| **1,2-Dichlorobenzene** | **4.8** | **J** | 5.0 | 0.79 | ug/L | | | 04/25/25 06:54 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 06:54 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 06:54 | 1 |
| **1,3-Dichlorobenzene** | **4.8** | **J** | 5.0 | 0.78 | ug/L | | | 04/25/25 06:54 | 1 |
| **1,4-Dichlorobenzene** | **21** | | 5.0 | 0.84 | ug/L | | | 04/25/25 06:54 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 06:54 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 06:54 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 06:54 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 06:54 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 06:54 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 06:54 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 06:54 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 06:54 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 06:54 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 06:54 | 1 |
| **Chlorobenzene** | **7.8** | | 5.0 | 0.75 | ug/L | | | 04/25/25 06:54 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 06:54 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 06:54 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 06:54 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 06:54 | 1 |
| **cis-1,2-Dichloroethene** | **1.2** | | 1.0 | 0.81 | ug/L | | | 04/25/25 06:54 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 06:54 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 06:54 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 06:54 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 06:54 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 06:54 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 06:54 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 06:54 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 06:54 | 1 |
| **Trichloroethene** | **0.89** | **J** | 5.0 | 0.46 | ug/L | | | 04/25/25 06:54 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 06:54 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 06:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *77 - 120* | | *04/25/25 06:54* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *04/25/25 06:54* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *73 - 120* | | *04/25/25 06:54* | *1* |
| *Dibromofluoromethane (Surr)* | *98* | | *75 - 123* | | *04/25/25 06:54* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,2,4-Trichlorobenzene** | **3.7** | **B** | 1.9 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| **1,2-Dichlorobenzene** | **3.8** | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| **1,3-Dichlorobenzene** | **3.8** | | 1.9 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| **1,4-Dichlorobenzene** | **15** | | 4.4 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-21**
**Date Collected: 04/21/25 12:30**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-11**
**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| **1,4-Dioxane** | **13** | | 10 | 1.1 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| **Benzyl alcohol** | **0.47** | **J** | 7.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| **Diethyl phthalate** | **0.24** | **J** | 10 | 0.22 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |

**Client Sample ID: MW-21**
**Date Collected: 04/21/25 12:30**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-11**
**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 02:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *70* | | *29 - 129* | *04/28/25 09:29* | *04/29/25 02:09* | *1* |
| *2-Fluorobiphenyl* | *83* | | *53 - 126* | *04/28/25 09:29* | *04/29/25 02:09* | *1* |
| *p-Terphenyl-d14* | *68* | | *33 - 132* | *04/28/25 09:29* | *04/29/25 02:09* | *1* |
| *Phenol-d5* | *34* | | *10 - 120* | *04/28/25 09:29* | *04/29/25 02:09* | *1* |
| *2-Fluorophenol* | *46* | | *24 - 120* | *04/28/25 09:29* | *04/29/25 02:09* | *1* |
| *2,4,6-Tribromophenol* | *94* | | *25 - 144* | *04/28/25 09:29* | *04/29/25 02:09* | *1* |

## Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 04/24/25 08:55 | 04/24/25 18:01 | 1 |
| **Iron** | **3.8** | **B** | 0.15 | 0.019 | mg/L | | 04/24/25 08:55 | 04/24/25 18:01 | 1 |
| **Manganese** | **1.5** | **B** | 0.0050 | 0.00040 | mg/L | | 04/24/25 08:55 | 04/24/25 18:01 | 1 |

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **99.1** | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:09 | 1 |
| **Ammonia (EPA 350.1)** | **3.1** | | 0.25 | 0.045 | mg/L | | | 04/24/25 14:15 | 5 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 04/23/25 20:18 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **27.4** | | 5.0 | 1.5 | mg/L | | | 04/30/25 13:51 | 1 |
| **Total Organic Carbon (SM 5310C)** | **2.3** | | 1.0 | 0.43 | mg/L | | | 04/25/25 21:34 | 1 |

## Client Sample ID: MW-6A

**Date Collected: 04/21/25 14:05**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-12

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,1,1-Trichloroethane** | **1.9** | **J** | 5.0 | 0.82 | ug/L | | | 04/25/25 07:18 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 07:18 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 07:18 | 1 |
| **1,1-Dichloroethane** | **13** | | 5.0 | 0.38 | ug/L | | | 04/25/25 07:18 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 07:18 | 1 |
| **1,2-Dichlorobenzene** | **5.0** | | 5.0 | 0.79 | ug/L | | | 04/25/25 07:18 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 07:18 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 07:18 | 1 |
| **1,3-Dichlorobenzene** | **4.0** | **J** | 5.0 | 0.78 | ug/L | | | 04/25/25 07:18 | 1 |
| **1,4-Dichlorobenzene** | **19** | | 5.0 | 0.84 | ug/L | | | 04/25/25 07:18 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 07:18 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 07:18 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 07:18 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 07:18 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 07:18 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 07:18 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 07:18 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 07:18 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 07:18 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 07:18 | 1 |
| **Chlorobenzene** | **11** | | 5.0 | 0.75 | ug/L | | | 04/25/25 07:18 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 07:18 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 07:18 | 1 |
| **Chloroform** | **0.65** | **J** | 5.0 | 0.34 | ug/L | | | 04/25/25 07:18 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 07:18 | 1 |
| **cis-1,2-Dichloroethene** | **36** | | 1.0 | 0.81 | ug/L | | | 04/25/25 07:18 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 07:18 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 07:18 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 07:18 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 07:18 | 1 |
| **Tetrachloroethene** | **2.2** | **J** | 5.0 | 0.36 | ug/L | | | 04/25/25 07:18 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 07:18 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 07:18 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 07:18 | 1 |
| **Trichloroethene** | **81** | | 5.0 | 0.46 | ug/L | | | 04/25/25 07:18 | 1 |
| **Vinyl chloride** | **4.4** | **J** | 5.0 | 0.90 | ug/L | | | 04/25/25 07:18 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 07:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *107* | | *77 - 120* | | *04/25/25 07:18* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *04/25/25 07:18* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *73 - 120* | | *04/25/25 07:18* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *75 - 123* | | *04/25/25 07:18* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,2,4-Trichlorobenzene** | **4.1** | **B** | 1.9 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| **1,2-Dichlorobenzene** | **3.8** | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| **1,3-Dichlorobenzene** | **2.9** | | 1.9 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| **1,4-Dichlorobenzene** | **13** | | 4.4 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-6A**
**Date Collected: 04/21/25 14:05**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-12**
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| **1,4-Dioxane** | **16** | | 10 | 1.1 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |

**Client Sample ID: MW-6A**
**Date Collected: 04/21/25 14:05**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-12**
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 02:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *68* | | *29 - 129* | *04/28/25 09:29* | *04/29/25 02:37* | *1* |
| *2-Fluorobiphenyl* | *79* | | *53 - 126* | *04/28/25 09:29* | *04/29/25 02:37* | *1* |
| *p-Terphenyl-d14* | *65* | | *33 - 132* | *04/28/25 09:29* | *04/29/25 02:37* | *1* |
| *Phenol-d5* | *34* | | *10 - 120* | *04/28/25 09:29* | *04/29/25 02:37* | *1* |
| *2-Fluorophenol* | *47* | | *24 - 120* | *04/28/25 09:29* | *04/29/25 02:37* | *1* |
| *2,4,6-Tribromophenol* | *94* | | *25 - 144* | *04/28/25 09:29* | *04/29/25 02:37* | *1* |

## Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 04/24/25 08:55 | 04/24/25 18:03 | 1 |
| **Iron** | **0.071** | **J B** | 0.15 | 0.019 | mg/L | | 04/24/25 08:55 | 04/24/25 18:03 | 1 |
| **Manganese** | **9.1** | **B** | 0.0050 | 0.00040 | mg/L | | 04/24/25 08:55 | 04/24/25 18:03 | 1 |

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **108** | | 25.0 | 20.0 | mg/L | | | 04/24/25 09:50 | 5 |
| **Ammonia (EPA 350.1)** | **0.40** | | 0.050 | 0.0090 | mg/L | | | 04/23/25 17:18 | 1 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 04/23/25 20:20 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **18.8** | | 5.0 | 1.5 | mg/L | | | 04/30/25 13:51 | 1 |
| **Total Organic Carbon (SM 5310C)** | **4.4** | | 1.0 | 0.43 | mg/L | | | 04/25/25 22:02 | 1 |

## Client Sample ID: MW-6B

**Date Collected: 04/21/25 13:10**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-13

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 07:41 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 07:41 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 07:41 | 1 |
| **1,1-Dichloroethane** | **1.9** | **J** | 5.0 | 0.38 | ug/L | | | 04/25/25 07:41 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 07:41 | 1 |
| **1,2-Dichlorobenzene** | **1.0** | **J** | 5.0 | 0.79 | ug/L | | | 04/25/25 07:41 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 07:41 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 07:41 | 1 |
| **1,3-Dichlorobenzene** | **1.3** | **J** | 5.0 | 0.78 | ug/L | | | 04/25/25 07:41 | 1 |
| **1,4-Dichlorobenzene** | **3.8** | **J** | 5.0 | 0.84 | ug/L | | | 04/25/25 07:41 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 07:41 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 07:41 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 07:41 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 07:41 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 07:41 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 07:41 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 07:41 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 07:41 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 07:41 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 07:41 | 1 |
| **Chlorobenzene** | **5.9** | | 5.0 | 0.75 | ug/L | | | 04/25/25 07:41 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 07:41 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 07:41 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 07:41 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 07:41 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/25/25 07:41 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 07:41 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 07:41 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 07:41 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 07:41 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 07:41 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 07:41 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 07:41 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 07:41 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/25/25 07:41 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 07:41 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 07:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *77 - 120* | | *04/25/25 07:41* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *80 - 120* | | *04/25/25 07:41* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *73 - 120* | | *04/25/25 07:41* | *1* |
| *Dibromofluoromethane (Surr)* | *98* | | *75 - 123* | | *04/25/25 07:41* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,2,4-Trichlorobenzene** | **1.1** | **J B** | 1.9 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| **1,2-Dichlorobenzene** | **0.64** | **J** | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| **1,3-Dichlorobenzene** | **0.79** | **J** | 1.9 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| **1,4-Dichlorobenzene** | **2.3** | **J** | 4.4 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-6B**
**Date Collected: 04/21/25 13:10**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-13**
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| **1,4-Dioxane** | **6.8** | **J** | 10 | 1.1 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |

**Client Sample ID: MW-6B**
**Date Collected: 04/21/25 13:10**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-13**
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 05:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *68* | | *29 - 129* | *04/28/25 09:29* | *04/29/25 05:24* | *1* |
| *2-Fluorobiphenyl* | *81* | | *53 - 126* | *04/28/25 09:29* | *04/29/25 05:24* | *1* |
| *p-Terphenyl-d14* | *70* | | *33 - 132* | *04/28/25 09:29* | *04/29/25 05:24* | *1* |
| *Phenol-d5* | *33* | | *10 - 120* | *04/28/25 09:29* | *04/29/25 05:24* | *1* |
| *2-Fluorophenol* | *47* | | *24 - 120* | *04/28/25 09:29* | *04/29/25 05:24* | *1* |
| *2,4,6-Tribromophenol* | *82* | | *25 - 144* | *04/28/25 09:29* | *04/29/25 05:24* | *1* |

## Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.050** | | 0.010 | 0.0056 | mg/L | | 04/24/25 08:55 | 04/24/25 18:05 | 1 |
| **Iron** | **15.7** | **B** | 0.15 | 0.019 | mg/L | | 04/24/25 08:55 | 04/24/25 18:05 | 1 |
| **Manganese** | **13.3** | **B** | 0.0050 | 0.00040 | mg/L | | 04/24/25 08:55 | 04/24/25 18:05 | 1 |

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **54.4** | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:10 | 1 |
| **Ammonia (EPA 350.1)** | **1.4** | | 0.050 | 0.0090 | mg/L | | | 04/23/25 17:24 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.027** | **J** | 0.050 | 0.020 | mg/L | | | 04/23/25 20:22 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **13.7** | | 5.0 | 1.5 | mg/L | | | 04/30/25 13:54 | 1 |
| **Total Organic Carbon (SM 5310C)** | **2.0** | | 1.0 | 0.43 | mg/L | | | 04/25/25 22:30 | 1 |

## Client Sample ID: MW-7A

**Date Collected: 04/21/25 11:15**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-14

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 08:04 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 08:04 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 08:04 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 04/25/25 08:04 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 08:04 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 04/25/25 08:04 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 08:04 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 08:04 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 04/25/25 08:04 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 04/25/25 08:04 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 08:04 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 08:04 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 08:04 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 08:04 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 08:04 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 08:04 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 08:04 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 08:04 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 08:04 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 08:04 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 04/25/25 08:04 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 08:04 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 08:04 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 08:04 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 08:04 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/25/25 08:04 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 08:04 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 08:04 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 08:04 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 08:04 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 08:04 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 08:04 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 08:04 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 08:04 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/25/25 08:04 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 08:04 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 08:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *77 - 120* | | *04/25/25 08:04* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *04/25/25 08:04* | *1* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *73 - 120* | | *04/25/25 08:04* | *1* |
| *Dibromofluoromethane (Surr)* | *98* | | *75 - 123* | | *04/25/25 08:04* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | | 1.9 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.9 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 1,4-Dichlorobenzene | ND | | 4.4 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-7A**
**Date Collected: 04/21/25 11:15**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-14**
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 1,4-Dioxane | ND | | 10 | 1.1 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |

## Client Sample ID: MW-7A
**Lab Sample ID: 480-228898-14**

**Date Collected: 04/21/25 11:15**
**Matrix: Water**
**Date Received: 04/23/25 09:00**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 05:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *74* | | *29 - 129* | *04/28/25 09:29* | *04/29/25 05:52* | *1* |
| *2-Fluorobiphenyl* | *82* | | *53 - 126* | *04/28/25 09:29* | *04/29/25 05:52* | *1* |
| *p-Terphenyl-d14* | *78* | | *33 - 132* | *04/28/25 09:29* | *04/29/25 05:52* | *1* |
| *Phenol-d5* | *33* | | *10 - 120* | *04/28/25 09:29* | *04/29/25 05:52* | *1* |
| *2-Fluorophenol* | *48* | | *24 - 120* | *04/28/25 09:29* | *04/29/25 05:52* | *1* |
| *2,4,6-Tribromophenol* | *81* | | *25 - 144* | *04/28/25 09:29* | *04/29/25 05:52* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 04/24/25 08:55 | 04/24/25 18:07 | 1 |
| **Iron** | **0.027** | **J B** | 0.15 | 0.019 | mg/L | | 04/24/25 08:55 | 04/24/25 18:07 | 1 |
| **Manganese** | **0.0013** | **J B** | 0.0050 | 0.00040 | mg/L | | 04/24/25 08:55 | 04/24/25 18:07 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **20.8** | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:10 | 1 |
| **Ammonia (EPA 350.1)** | **0.0090** | **J** | 0.050 | 0.0090 | mg/L | | | 04/23/25 17:25 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.095** | | 0.050 | 0.020 | mg/L | | | 04/23/25 20:24 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **8.8** | | 5.0 | 1.5 | mg/L | | | 04/30/25 14:10 | 1 |
| **Total Organic Carbon (SM 5310C)** | **0.79** | **J** | 1.0 | 0.43 | mg/L | | | 04/26/25 00:54 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: MW-7M

**Date Collected: 04/21/25 09:50**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-15

**Matrix: Ground Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 08:27 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 08:27 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 08:27 | 1 |
| **1,1-Dichloroethane** | **1.2** | **J** | 5.0 | 0.38 | ug/L | | | 04/25/25 08:27 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 08:27 | 1 |
| **1,2-Dichlorobenzene** | **1.1** | **J** | 5.0 | 0.79 | ug/L | | | 04/25/25 08:27 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 08:27 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 08:27 | 1 |
| **1,3-Dichlorobenzene** | **0.90** | **J** | 5.0 | 0.78 | ug/L | | | 04/25/25 08:27 | 1 |
| **1,4-Dichlorobenzene** | **4.3** | **J** | 5.0 | 0.84 | ug/L | | | 04/25/25 08:27 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 08:27 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 08:27 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 08:27 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 08:27 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 08:27 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 08:27 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 08:27 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 08:27 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 08:27 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 08:27 | 1 |
| **Chlorobenzene** | **1.9** | **J** | 5.0 | 0.75 | ug/L | | | 04/25/25 08:27 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 08:27 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 08:27 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 08:27 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 08:27 | 1 |
| **cis-1,2-Dichloroethene** | **0.85** | **J** | 1.0 | 0.81 | ug/L | | | 04/25/25 08:27 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 08:27 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 08:27 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 08:27 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 08:27 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 08:27 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 08:27 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 08:27 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 08:27 | 1 |
| **Trichloroethene** | **0.52** | **J** | 5.0 | 0.46 | ug/L | | | 04/25/25 08:27 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 08:27 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 08:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *77 - 120* | | *04/25/25 08:27* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* | | *04/25/25 08:27* | *1* |
| *4-Bromofluorobenzene (Surr)* | *88* | | *73 - 120* | | *04/25/25 08:27* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *75 - 123* | | *04/25/25 08:27* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,2,4-Trichlorobenzene** | **1.3** | **J B** | 1.9 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| **1,2-Dichlorobenzene** | **0.80** | **J** | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| **1,3-Dichlorobenzene** | **0.58** | **J** | 1.9 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| **1,4-Dichlorobenzene** | **2.9** | **J** | 4.4 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |

Eurofins Buffalo

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Client Sample ID: MW-7M**
**Date Collected: 04/21/25 09:50**
**Date Received: 04/23/25 09:00**

**Lab Sample ID: 480-228898-15**
**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| **1,4-Dioxane** | **2.0** | **J** | 10 | 1.1 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |

## Client Sample ID: MW-7M

**Date Collected: 04/21/25 09:50**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-15

**Matrix: Ground Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/28/25 09:29 | 04/29/25 12:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *62* | | *29 - 129* | *04/28/25 09:29* | *04/29/25 12:50* | *1* |
| *2-Fluorobiphenyl* | *80* | | *53 - 126* | *04/28/25 09:29* | *04/29/25 12:50* | *1* |
| *p-Terphenyl-d14* | *76* | | *33 - 132* | *04/28/25 09:29* | *04/29/25 12:50* | *1* |
| *Phenol-d5* | *30* | | *10 - 120* | *04/28/25 09:29* | *04/29/25 12:50* | *1* |
| *2-Fluorophenol* | *45* | | *24 - 120* | *04/28/25 09:29* | *04/29/25 12:50* | *1* |
| *2,4,6-Tribromophenol* | *84* | | *25 - 144* | *04/28/25 09:29* | *04/29/25 12:50* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 04/24/25 08:55 | 04/24/25 18:09 | 1 |
| **Iron** | **0.033** | **J B** | 0.15 | 0.019 | mg/L | | 04/24/25 08:55 | 04/24/25 18:09 | 1 |
| **Manganese** | **1.3** | **B** | 0.0050 | 0.00040 | mg/L | | 04/24/25 08:55 | 04/24/25 18:09 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **53.7** | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:10 | 1 |
| **Ammonia (EPA 350.1)** | **1.4** | | 0.050 | 0.0090 | mg/L | | | 04/23/25 17:26 | 1 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 04/23/25 20:26 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **12.8** | | 5.0 | 1.5 | mg/L | | | 04/30/25 14:10 | 1 |
| **Total Organic Carbon (SM 5310C)** | **1.1** | | 1.0 | 0.43 | mg/L | | | 04/26/25 01:51 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: TRIP BLANK 2

**Date Collected: 04/21/25 00:00**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-16

**Matrix: Distilled Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 08:50 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 08:50 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 08:50 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 04/25/25 08:50 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 08:50 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 04/25/25 08:50 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 08:50 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 08:50 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 04/25/25 08:50 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 04/25/25 08:50 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 08:50 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 08:50 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 08:50 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 08:50 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 08:50 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 08:50 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 08:50 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 08:50 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 08:50 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 08:50 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 04/25/25 08:50 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 08:50 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 08:50 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 08:50 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 08:50 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/25/25 08:50 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 08:50 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 08:50 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 08:50 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 08:50 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 08:50 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 08:50 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 08:50 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 08:50 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/25/25 08:50 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 08:50 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 08:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *77 - 120* | | *04/25/25 08:50* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *04/25/25 08:50* | *1* |
| *4-Bromofluorobenzene (Surr)* | *87* | | *73 - 120* | | *04/25/25 08:50* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *75 - 123* | | *04/25/25 08:50* | *1* |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: TRIP BLANK 3

**Date Collected: 04/22/25 00:00**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-17

**Matrix: Ground Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 09:14 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 09:14 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 09:14 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 04/25/25 09:14 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 09:14 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 04/25/25 09:14 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 09:14 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 09:14 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 04/25/25 09:14 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 04/25/25 09:14 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 09:14 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 09:14 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 09:14 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 09:14 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 09:14 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 09:14 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 09:14 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 09:14 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 09:14 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 09:14 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 04/25/25 09:14 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 09:14 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 09:14 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 09:14 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 09:14 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/25/25 09:14 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 09:14 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 09:14 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 09:14 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 09:14 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 09:14 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 09:14 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 09:14 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 09:14 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/25/25 09:14 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 09:14 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 09:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *77 - 120* | | *04/25/25 09:14* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *04/25/25 09:14* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *73 - 120* | | *04/25/25 09:14* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *75 - 123* | | *04/25/25 09:14* | *1* |

# Surrogate Summary

Client: Geosyntec Consultants Inc
Job ID: 480-228881-1
Project/Site: Cortese Landfill - Semiannual Groundwater
SDG: 228881

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

### Matrix: Distilled Water

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | TOL | BFB | DBFM |
| Lab Sample ID | Client Sample ID | (77-120) | (80-120) | (73-120) | (75-123) |
| 480-228898-16 | TRIP BLANK 2 | 103 | 101 | 87 | 95 |

**Surrogate Legend**

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

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

### Matrix: Ground Water

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | TOL | BFB | DBFM |
| Lab Sample ID | Client Sample ID | (77-120) | (80-120) | (73-120) | (75-123) |
| 480-228881-4 | MW-22 | 103 | 99 | 91 | 97 |
| 480-228881-5 | FDUP-02-GW | 99 | 98 | 91 | 96 |
| 480-228898-4 | MW-18A | 104 | 99 | 91 | 100 |
| 480-228898-5 | MW-18B | 103 | 97 | 89 | 97 |
| 480-228898-6 | MW-18C | 105 | 101 | 90 | 101 |
| 480-228898-7 | MW-19 | 103 | 100 | 91 | 96 |
| 480-228898-8 | MW-1A | 107 | 99 | 91 | 98 |
| 480-228898-11 | MW-21 | 105 | 100 | 92 | 98 |
| 480-228898-15 | MW-7M | 102 | 97 | 88 | 96 |
| 480-228898-17 | TRIP BLANK 3 | 105 | 101 | 91 | 97 |

**Surrogate Legend**

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

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

### Matrix: Water

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | TOL | BFB | DBFM |
| Lab Sample ID | Client Sample ID | (77-120) | (80-120) | (73-120) | (75-123) |
| 480-228881-1 | TRIP BLANK | 105 | 102 | 92 | 97 |
| 480-228881-2 | MW-20A | 103 | 101 | 92 | 99 |
| 480-228881-3 | MW-20B | 108 | 99 | 92 | 102 |
| 480-228881-6 | EX-1 | 103 | 98 | 86 | 97 |
| 480-228898-1 | FDUP-01-GW | 104 | 100 | 91 | 100 |
| 480-228898-2 | MW-10 | 106 | 99 | 93 | 98 |
| 480-228898-3 | MW-11 | 107 | 99 | 90 | 100 |
| 480-228898-9 | MW-1B | 106 | 99 | 90 | 97 |
| 480-228898-10 | MW-1C | 108 | 100 | 91 | 99 |
| 480-228898-10 MS | MW-1C | 105 | 102 | 91 | 98 |
| 480-228898-10 MSD | MW-1C | 101 | 100 | 90 | 98 |
| 480-228898-12 | MW-6A | 107 | 100 | 91 | 101 |
| 480-228898-13 | MW-6B | 106 | 98 | 92 | 98 |
| 480-228898-14 | MW-7A | 105 | 101 | 90 | 98 |

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

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

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | TOL | BFB | DBFM |
| Lab Sample ID | Client Sample ID | (77-120) | (80-120) | (73-120) | (75-123) |
| LCS 480-744382/6 | Lab Control Sample | 101 | 104 | 92 | 99 |
| LCS 480-744430/6 | Lab Control Sample | 106 | 102 | 92 | 100 |
| LCS 480-744485/6 | Lab Control Sample | 103 | 103 | 90 | 98 |
| MB 480-744382/8 | Method Blank | 103 | 100 | 92 | 96 |
| MB 480-744430/8 | Method Blank | 104 | 101 | 94 | 102 |
| MB 480-744485/9 | Method Blank | 104 | 101 | 90 | 97 |

**Surrogate Legend**

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

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

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

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|---|---|---|---|---|---|---|---|
| | | NBZ | FBP | TPHd14 | PHL | 2FP | TBP |
| Lab Sample ID | Client Sample ID | (29-129) | (53-126) | (33-132) | (10-120) | (24-120) | (25-144) |
| 480-228881-4 | MW-22 | 57 | 72 | 72 | 30 | 43 | 78 |
| 480-228881-5 | FDUP-02-GW | 70 | 89 | 83 | 35 | 54 | 97 |
| 480-228898-4 | MW-18A | 67 | 79 | 66 | 32 | 46 | 81 |
| 480-228898-5 | MW-18B | 67 | 78 | 65 | 34 | 49 | 95 |
| 480-228898-6 | MW-18C | 69 | 83 | 73 | 36 | 51 | 86 |
| 480-228898-7 | MW-19 | 69 | 85 | 72 | 34 | 49 | 96 |
| 480-228898-8 | MW-1A | 71 | 78 | 78 | 34 | 48 | 89 |
| 480-228898-11 | MW-21 | 70 | 83 | 68 | 34 | 46 | 94 |
| 480-228898-15 | MW-7M | 62 | 80 | 76 | 30 | 45 | 84 |

**Surrogate Legend**

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

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

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

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|---|---|---|---|---|---|---|---|
| | | NBZ | FBP | TPHd14 | PHL | 2FP | TBP |
| Lab Sample ID | Client Sample ID | (29-129) | (53-126) | (33-132) | (10-120) | (24-120) | (25-144) |
| 480-228881-2 | MW-20A | 68 | 84 | 93 | 34 | 52 | 94 |
| 480-228881-3 | MW-20B | 65 | 89 | 92 | 34 | 51 | 102 |
| 480-228881-6 | EX-1 | 59 | 78 | 68 | 29 | 53 | 72 |
| 480-228898-1 | FDUP-01-GW | 61 | 73 | 78 | 30 | 42 | 84 |
| 480-228898-2 | MW-10 | 68 | 79 | 70 | 32 | 48 | 96 |
| 480-228898-3 | MW-11 | 66 | 79 | 79 | 30 | 45 | 84 |
| 480-228898-9 | MW-1B | 67 | 76 | 60 | 32 | 46 | 93 |
| 480-228898-10 | MW-1C | 68 | 81 | 71 | 34 | 50 | 91 |
| 480-228898-10 MS | MW-1C | 69 | 78 | 65 | 37 | 49 | 94 |

# Surrogate Summary

Client: Geosyntec Consultants Inc
Job ID: 480-228881-1
Project/Site: Cortese Landfill - Semiannual Groundwater
SDG: 228881

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

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

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|---|---|---|---|---|---|---|---|
| | | NBZ | FBP | TPHd14 | PHL | 2FP | TBP |
| Lab Sample ID | Client Sample ID | (29-129) | (53-126) | (33-132) | (10-120) | (24-120) | (25-144) |
| 480-228898-10 MSD | MW-1C | 77 | 89 | 70 | 41 | 55 | 97 |
| 480-228898-12 | MW-6A | 68 | 79 | 65 | 34 | 47 | 94 |
| 480-228898-13 | MW-6B | 68 | 81 | 70 | 33 | 47 | 82 |
| 480-228898-14 | MW-7A | 74 | 82 | 78 | 33 | 48 | 81 |
| LCS 480-744516/2-A | Lab Control Sample | 88 | 90 | 106 | 47 | 65 | 117 |
| LCS 480-744629/2-A | Lab Control Sample | 69 | 78 | 79 | 39 | 52 | 90 |
| MB 480-744516/1-A | Method Blank | 62 | 73 | 100 | 33 | 48 | 85 |
| MB 480-744629/1-A | Method Blank | 62 | 72 | 79 | 33 | 47 | 71 |

**Surrogate Legend**

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

## Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| | | TFT-F1 |
| Lab Sample ID | Client Sample ID | (63-135) |
| 480-228898-8 | MW-1A | 97 |

**Surrogate Legend**

TFT-F = a,a,a-Trifluorotoluene (fid)

## Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| | | TFT-F1 |
| Lab Sample ID | Client Sample ID | (63-135) |
| 480-228881-6 | EX-1 | 93 |
| 480-228898-1 | FDUP-01-GW | 97 |
| 480-228898-2 | MW-10 | 101 |
| 480-228898-3 | MW-11 | 96 |
| 480-228898-9 | MW-1B | 96 |
| 480-228898-10 | MW-1C | 95 |
| 480-228898-10 MS | MW-1C | 88 |
| 480-228898-10 MSD | MW-1C | 86 |
| LCS 410-636949/35 | Lab Control Sample | 88 |
| LCS 410-636949/6 | Lab Control Sample | 88 |
| LCS 410-638104/6 | Lab Control Sample | 86 |
| LCSD 410-636949/36 | Lab Control Sample Dup | 86 |
| LCSD 410-636949/7 | Lab Control Sample Dup | 86 |
| LCSD 410-638104/7 | Lab Control Sample Dup | 85 |
| MB 410-636949/34 | Method Blank | 99 |
| MB 410-636949/5 | Method Blank | 100 |
| MB 410-638104/5 | Method Blank | 95 |

# Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

**Surrogate Legend**
TFT-F = a,a,a-Trifluorotoluene (fid)

## Method: 8015D - Diesel Range Organics (DRO) (GC)

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

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| **Lab Sample ID** | **Client Sample ID** | **OTP (32-125)** |
| 480-228898-8 | MW-1A | 78 |

**Surrogate Legend**
OTP = o- terphenyl (Surr)

## Method: 8015D - Diesel Range Organics (DRO) (GC)

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

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| **Lab Sample ID** | **Client Sample ID** | **OTP (32-125)** |
| 480-228881-6 | EX-1 | 85 |
| 480-228898-1 | FDUP-01-GW | 78 |
| 480-228898-2 | MW-10 | 87 |
| 480-228898-3 | MW-11 | 87 |
| 480-228898-9 | MW-1B | 77 |
| 480-228898-10 | MW-1C | 76 |
| 480-228898-10 MS | MW-1C | 70 |
| 480-228898-10 MSD | MW-1C | 69 |
| LCS 410-635517/2-A | Lab Control Sample | 91 |
| LCS 410-637207/2-A | Lab Control Sample | 78 |
| MB 410-635517/1-A | Method Blank | 90 |
| MB 410-637207/1-A | Method Blank | 73 |

**Surrogate Legend**
OTP = o- terphenyl (Surr)

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

**Lab Sample ID: MB 480-744382/8**
**Matrix: Water**
**Analysis Batch: 744382**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/24/25 15:54 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/24/25 15:54 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/24/25 15:54 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 04/24/25 15:54 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/24/25 15:54 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 04/24/25 15:54 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/24/25 15:54 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/24/25 15:54 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 04/24/25 15:54 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 04/24/25 15:54 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/24/25 15:54 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/24/25 15:54 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/24/25 15:54 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/24/25 15:54 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/24/25 15:54 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/24/25 15:54 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/24/25 15:54 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/24/25 15:54 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/24/25 15:54 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/24/25 15:54 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 04/24/25 15:54 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/24/25 15:54 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/24/25 15:54 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/24/25 15:54 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/24/25 15:54 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/24/25 15:54 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/24/25 15:54 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/24/25 15:54 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/24/25 15:54 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/24/25 15:54 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/24/25 15:54 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/24/25 15:54 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/24/25 15:54 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/24/25 15:54 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/24/25 15:54 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/24/25 15:54 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/24/25 15:54 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *77 - 120* | | *04/24/25 15:54* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *04/24/25 15:54* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *73 - 120* | | *04/24/25 15:54* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *75 - 123* | | *04/24/25 15:54* | *1* |

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

**Lab Sample ID: LCS 480-744382/6**
**Matrix: Water**
**Analysis Batch: 744382**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 25.0 | 25.4 | | ug/L | | 102 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 26.7 | | ug/L | | 107 | 70 - 126 |
| 1,1,2-Trichloroethane | 25.0 | 25.8 | | ug/L | | 103 | 76 - 122 |
| 1,1-Dichloroethane | 25.0 | 26.1 | | ug/L | | 105 | 71 - 129 |
| 1,1-Dichloroethene | 25.0 | 23.6 | | ug/L | | 94 | 58 - 121 |
| 1,2-Dichlorobenzene | 25.0 | 25.2 | | ug/L | | 101 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 25.0 | | ug/L | | 100 | 75 - 127 |
| 1,2-Dichloropropane | 25.0 | 25.6 | | ug/L | | 102 | 76 - 120 |
| 1,3-Dichlorobenzene | 25.0 | 25.0 | | ug/L | | 100 | 77 - 120 |
| 1,4-Dichlorobenzene | 25.0 | 25.0 | | ug/L | | 100 | 75 - 120 |
| 2-Hexanone | 125 | 140 | | ug/L | | 112 | 65 - 127 |
| 2-Butanone (MEK) | 125 | 133 | | ug/L | | 107 | 57 - 140 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 141 | | ug/L | | 113 | 71 - 125 |
| Acetone | 125 | 137 | | ug/L | | 110 | 56 - 142 |
| Benzene | 25.0 | 24.5 | | ug/L | | 98 | 71 - 124 |
| Bromodichloromethane | 25.0 | 25.4 | | ug/L | | 101 | 80 - 122 |
| Bromoform | 25.0 | 25.3 | | ug/L | | 101 | 66 - 128 |
| Bromomethane | 25.0 | 25.5 | | ug/L | | 102 | 55 - 144 |
| Carbon disulfide | 25.0 | 25.1 | | ug/L | | 101 | 59 - 134 |
| Carbon tetrachloride | 25.0 | 24.8 | | ug/L | | 99 | 72 - 134 |
| Chlorobenzene | 25.0 | 23.5 | | ug/L | | 94 | 72 - 120 |
| Dibromochloromethane | 25.0 | 26.5 | | ug/L | | 106 | 75 - 125 |
| Chloroethane | 25.0 | 24.1 | | ug/L | | 96 | 69 - 136 |
| Chloroform | 25.0 | 22.8 | | ug/L | | 91 | 73 - 127 |
| Chloromethane | 25.0 | 25.6 | | ug/L | | 102 | 68 - 124 |
| cis-1,2-Dichloroethene | 25.0 | 24.1 | | ug/L | | 96 | 74 - 124 |
| cis-1,3-Dichloropropene | 25.0 | 24.4 | | ug/L | | 98 | 74 - 124 |
| Ethylbenzene | 25.0 | 25.1 | | ug/L | | 101 | 77 - 123 |
| Methylene Chloride | 25.0 | 24.8 | | ug/L | | 99 | 57 - 132 |
| Styrene | 25.0 | 24.3 | | ug/L | | 97 | 70 - 130 |
| Tetrachloroethene | 25.0 | 24.6 | | ug/L | | 99 | 74 - 122 |
| Toluene | 25.0 | 25.2 | | ug/L | | 101 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 24.0 | | ug/L | | 96 | 73 - 127 |
| trans-1,3-Dichloropropene | 25.0 | 25.5 | | ug/L | | 102 | 72 - 123 |
| Trichloroethene | 25.0 | 24.2 | | ug/L | | 97 | 74 - 123 |
| Vinyl chloride | 25.0 | 25.9 | | ug/L | | 104 | 65 - 133 |
| Xylenes, Total | 50.0 | 49.0 | | ug/L | | 98 | 76 - 122 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *77 - 120* |
| *Toluene-d8 (Surr)* | *104* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *73 - 120* |
| *Dibromofluoromethane (Surr)* | *99* | | *75 - 123* |

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

**Lab Sample ID: MB 480-744430/8**
**Matrix: Water**
**Analysis Batch: 744430**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 02:38 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 02:38 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 02:38 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 04/25/25 02:38 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 02:38 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 04/25/25 02:38 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 02:38 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 02:38 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 04/25/25 02:38 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 04/25/25 02:38 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 02:38 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 02:38 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 02:38 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 02:38 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 02:38 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 02:38 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 02:38 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 02:38 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 02:38 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 02:38 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 04/25/25 02:38 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 02:38 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 02:38 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 02:38 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 02:38 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/25/25 02:38 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 02:38 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 02:38 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 02:38 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 02:38 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 02:38 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 02:38 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 02:38 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 02:38 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/25/25 02:38 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 02:38 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 02:38 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *77 - 120* | | *04/25/25 02:38* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *04/25/25 02:38* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *73 - 120* | | *04/25/25 02:38* | *1* |
| *Dibromofluoromethane (Surr)* | *102* | | *75 - 123* | | *04/25/25 02:38* | *1* |

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

**Lab Sample ID: LCS 480-744430/6**
**Matrix: Water**
**Analysis Batch: 744430**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 25.0 | 26.3 | | ug/L | | 105 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 26.4 | | ug/L | | 106 | 70 - 126 |
| 1,1,2-Trichloroethane | 25.0 | 25.1 | | ug/L | | 100 | 76 - 122 |
| 1,1-Dichloroethane | 25.0 | 27.0 | | ug/L | | 108 | 71 - 129 |
| 1,1-Dichloroethene | 25.0 | 23.9 | | ug/L | | 95 | 58 - 121 |
| 1,2-Dichlorobenzene | 25.0 | 25.2 | | ug/L | | 101 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 25.7 | | ug/L | | 103 | 75 - 127 |
| 1,2-Dichloropropane | 25.0 | 27.0 | | ug/L | | 108 | 76 - 120 |
| 1,3-Dichlorobenzene | 25.0 | 24.7 | | ug/L | | 99 | 77 - 120 |
| 1,4-Dichlorobenzene | 25.0 | 25.0 | | ug/L | | 100 | 75 - 120 |
| 2-Hexanone | 125 | 141 | | ug/L | | 113 | 65 - 127 |
| 2-Butanone (MEK) | 125 | 138 | | ug/L | | 111 | 57 - 140 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 141 | | ug/L | | 113 | 71 - 125 |
| Acetone | 125 | 131 | | ug/L | | 105 | 56 - 142 |
| Benzene | 25.0 | 25.3 | | ug/L | | 101 | 71 - 124 |
| Bromodichloromethane | 25.0 | 25.5 | | ug/L | | 102 | 80 - 122 |
| Bromoform | 25.0 | 23.5 | | ug/L | | 94 | 66 - 128 |
| Bromomethane | 25.0 | 26.2 | | ug/L | | 105 | 55 - 144 |
| Carbon disulfide | 25.0 | 25.7 | | ug/L | | 103 | 59 - 134 |
| Carbon tetrachloride | 25.0 | 24.9 | | ug/L | | 100 | 72 - 134 |
| Chlorobenzene | 25.0 | 23.7 | | ug/L | | 95 | 72 - 120 |
| Dibromochloromethane | 25.0 | 25.2 | | ug/L | | 101 | 75 - 125 |
| Chloroethane | 25.0 | 24.8 | | ug/L | | 99 | 69 - 136 |
| Chloroform | 25.0 | 23.2 | | ug/L | | 93 | 73 - 127 |
| Chloromethane | 25.0 | 25.9 | | ug/L | | 103 | 68 - 124 |
| cis-1,2-Dichloroethene | 25.0 | 24.9 | | ug/L | | 99 | 74 - 124 |
| cis-1,3-Dichloropropene | 25.0 | 24.8 | | ug/L | | 99 | 74 - 124 |
| Ethylbenzene | 25.0 | 25.0 | | ug/L | | 100 | 77 - 123 |
| Methylene Chloride | 25.0 | 25.6 | | ug/L | | 102 | 57 - 132 |
| Styrene | 25.0 | 23.6 | | ug/L | | 94 | 70 - 130 |
| Tetrachloroethene | 25.0 | 23.7 | | ug/L | | 95 | 74 - 122 |
| Toluene | 25.0 | 25.1 | | ug/L | | 101 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 25.3 | | ug/L | | 101 | 73 - 127 |
| trans-1,3-Dichloropropene | 25.0 | 24.4 | | ug/L | | 98 | 72 - 123 |
| Trichloroethene | 25.0 | 24.7 | | ug/L | | 99 | 74 - 123 |
| Vinyl chloride | 25.0 | 26.1 | | ug/L | | 104 | 65 - 133 |
| Xylenes, Total | 50.0 | 48.8 | | ug/L | | 98 | 76 - 122 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *77 - 120* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *73 - 120* |
| *Dibromofluoromethane (Surr)* | *100* | | *75 - 123* |

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

**Lab Sample ID: 480-228898-10 MS**
**Matrix: Water**
**Analysis Batch: 744430**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 25.0 | 27.6 | | ug/L | | 110 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | ND | | 25.0 | 28.1 | | ug/L | | 113 | 76 - 120 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 26.4 | | ug/L | | 105 | 76 - 122 |
| 1,1-Dichloroethane | 0.82 | J | 25.0 | 29.7 | | ug/L | | 115 | 77 - 120 |
| 1,1-Dichloroethene | ND | | 25.0 | 25.3 | | ug/L | | 101 | 66 - 127 |
| 1,2-Dichlorobenzene | 1.6 | J | 25.0 | 28.2 | | ug/L | | 107 | 80 - 124 |
| 1,2-Dichloroethane | ND | | 25.0 | 26.5 | | ug/L | | 106 | 75 - 120 |
| 1,2-Dichloropropane | ND | | 25.0 | 27.4 | | ug/L | | 109 | 76 - 120 |
| 1,3-Dichlorobenzene | 1.7 | J | 25.0 | 28.1 | | ug/L | | 106 | 77 - 120 |
| 1,4-Dichlorobenzene | 4.8 | J | 25.0 | 31.2 | | ug/L | | 105 | 78 - 124 |
| 2-Hexanone | ND | | 125 | 151 | | ug/L | | 121 | 65 - 127 |
| 2-Butanone (MEK) | ND | | 125 | 147 | | ug/L | | 118 | 57 - 140 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 125 | 152 | | ug/L | | 122 | 71 - 125 |
| Acetone | ND | | 125 | 136 | | ug/L | | 109 | 56 - 142 |
| Benzene | ND | | 25.0 | 27.1 | | ug/L | | 109 | 71 - 124 |
| Bromodichloromethane | ND | | 25.0 | 25.8 | | ug/L | | 103 | 80 - 122 |
| Bromoform | ND | | 25.0 | 22.2 | | ug/L | | 89 | 61 - 132 |
| Bromomethane | ND | | 25.0 | 25.0 | | ug/L | | 100 | 55 - 144 |
| Carbon disulfide | ND | | 25.0 | 28.0 | | ug/L | | 112 | 59 - 134 |
| Carbon tetrachloride | ND | | 25.0 | 26.1 | | ug/L | | 104 | 72 - 134 |
| Chlorobenzene | 6.9 | | 25.0 | 32.1 | | ug/L | | 100 | 80 - 120 |
| Dibromochloromethane | ND | | 25.0 | 24.4 | | ug/L | | 97 | 75 - 125 |
| Chloroethane | ND | | 25.0 | 26.2 | | ug/L | | 105 | 69 - 136 |
| Chloroform | ND | | 25.0 | 24.3 | | ug/L | | 97 | 73 - 127 |
| Chloromethane | ND | | 25.0 | 26.7 | | ug/L | | 107 | 68 - 124 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 26.5 | | ug/L | | 106 | 74 - 124 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 23.5 | | ug/L | | 94 | 74 - 124 |
| Ethylbenzene | ND | | 25.0 | 27.2 | | ug/L | | 109 | 77 - 123 |
| Methylene Chloride | ND | | 25.0 | 26.6 | | ug/L | | 107 | 75 - 124 |
| Styrene | ND | | 25.0 | 23.5 | | ug/L | | 94 | 80 - 120 |
| Tetrachloroethene | ND | | 25.0 | 26.3 | | ug/L | | 105 | 74 - 122 |
| Toluene | ND | | 25.0 | 26.9 | | ug/L | | 108 | 80 - 122 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 27.0 | | ug/L | | 108 | 73 - 127 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 24.4 | | ug/L | | 98 | 80 - 120 |
| Trichloroethene | ND | | 25.0 | 25.8 | | ug/L | | 103 | 74 - 123 |
| Vinyl chloride | ND | | 25.0 | 28.1 | | ug/L | | 112 | 65 - 133 |
| Xylenes, Total | ND | | 50.0 | 51.8 | | ug/L | | 104 | 76 - 122 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *77 - 120* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *73 - 120* |
| *Dibromofluoromethane (Surr)* | *98* | | *75 - 123* |

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

**Lab Sample ID: 480-228898-10 MSD**
**Matrix: Water**
**Analysis Batch: 744430**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 25.0 | 26.6 | | ug/L | | 106 | 73 - 126 | 4 | 15 |
| 1,1,2,2-Tetrachloroethane | ND | | 25.0 | 27.9 | | ug/L | | 112 | 76 - 120 | 1 | 15 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 25.2 | | ug/L | | 101 | 76 - 122 | 5 | 15 |
| 1,1-Dichloroethane | 0.82 | J | 25.0 | 28.5 | | ug/L | | 111 | 77 - 120 | 4 | 20 |
| 1,1-Dichloroethene | ND | | 25.0 | 24.3 | | ug/L | | 97 | 66 - 127 | 4 | 16 |
| 1,2-Dichlorobenzene | 1.6 | J | 25.0 | 27.5 | | ug/L | | 104 | 80 - 124 | 3 | 20 |
| 1,2-Dichloroethane | ND | | 25.0 | 25.3 | | ug/L | | 101 | 75 - 120 | 5 | 20 |
| 1,2-Dichloropropane | ND | | 25.0 | 26.7 | | ug/L | | 107 | 76 - 120 | 3 | 20 |
| 1,3-Dichlorobenzene | 1.7 | J | 25.0 | 27.7 | | ug/L | | 104 | 77 - 120 | 2 | 20 |
| 1,4-Dichlorobenzene | 4.8 | J | 25.0 | 30.6 | | ug/L | | 103 | 78 - 124 | 2 | 20 |
| 2-Hexanone | ND | | 125 | 147 | | ug/L | | 118 | 65 - 127 | 3 | 15 |
| 2-Butanone (MEK) | ND | | 125 | 144 | | ug/L | | 115 | 57 - 140 | 2 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 125 | 148 | | ug/L | | 118 | 71 - 125 | 3 | 35 |
| Acetone | ND | | 125 | 138 | | ug/L | | 110 | 56 - 142 | 1 | 15 |
| Benzene | ND | | 25.0 | 26.0 | | ug/L | | 104 | 71 - 124 | 4 | 13 |
| Bromodichloromethane | ND | | 25.0 | 24.5 | | ug/L | | 98 | 80 - 122 | 5 | 15 |
| Bromoform | ND | | 25.0 | 21.7 | | ug/L | | 87 | 61 - 132 | 2 | 15 |
| Bromomethane | ND | | 25.0 | 27.1 | | ug/L | | 108 | 55 - 144 | 8 | 15 |
| Carbon disulfide | ND | | 25.0 | 26.7 | | ug/L | | 107 | 59 - 134 | 5 | 15 |
| Carbon tetrachloride | ND | | 25.0 | 25.5 | | ug/L | | 102 | 72 - 134 | 2 | 15 |
| Chlorobenzene | 6.9 | | 25.0 | 31.0 | | ug/L | | 96 | 80 - 120 | 3 | 25 |
| Dibromochloromethane | ND | | 25.0 | 24.2 | | ug/L | | 97 | 75 - 125 | 1 | 15 |
| Chloroethane | ND | | 25.0 | 25.9 | | ug/L | | 104 | 69 - 136 | 1 | 15 |
| Chloroform | ND | | 25.0 | 23.7 | | ug/L | | 95 | 73 - 127 | 3 | 20 |
| Chloromethane | ND | | 25.0 | 23.5 | | ug/L | | 94 | 68 - 124 | 13 | 15 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 25.3 | | ug/L | | 101 | 74 - 124 | 5 | 15 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 22.6 | | ug/L | | 90 | 74 - 124 | 4 | 15 |
| Ethylbenzene | ND | | 25.0 | 26.1 | | ug/L | | 105 | 77 - 123 | 4 | 15 |
| Methylene Chloride | ND | | 25.0 | 25.5 | | ug/L | | 102 | 75 - 124 | 4 | 15 |
| Styrene | ND | | 25.0 | 22.8 | | ug/L | | 91 | 80 - 120 | 3 | 20 |
| Tetrachloroethene | ND | | 25.0 | 25.0 | | ug/L | | 100 | 74 - 122 | 5 | 20 |
| Toluene | ND | | 25.0 | 26.4 | | ug/L | | 105 | 80 - 122 | 2 | 15 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 25.9 | | ug/L | | 104 | 73 - 127 | 4 | 20 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 23.0 | | ug/L | | 92 | 80 - 120 | 6 | 15 |
| Trichloroethene | ND | | 25.0 | 25.6 | | ug/L | | 102 | 74 - 123 | 1 | 16 |
| Vinyl chloride | ND | | 25.0 | 26.8 | | ug/L | | 107 | 65 - 133 | 5 | 15 |
| Xylenes, Total | ND | | 50.0 | 50.4 | | ug/L | | 101 | 76 - 122 | 3 | 16 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *77 - 120* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *73 - 120* |
| *Dibromofluoromethane (Surr)* | *98* | | *75 - 123* |

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

**Lab Sample ID: MB 480-744485/9**
**Matrix: Water**
**Analysis Batch: 744485**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 04/25/25 13:29 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 13:29 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 04/25/25 13:29 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 04/25/25 13:29 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 04/25/25 13:29 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 04/25/25 13:29 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 04/25/25 13:29 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 04/25/25 13:29 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 04/25/25 13:29 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 04/25/25 13:29 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 04/25/25 13:29 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 04/25/25 13:29 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 04/25/25 13:29 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 04/25/25 13:29 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 04/25/25 13:29 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 04/25/25 13:29 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 04/25/25 13:29 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 04/25/25 13:29 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 04/25/25 13:29 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 04/25/25 13:29 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 04/25/25 13:29 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 13:29 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 04/25/25 13:29 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 04/25/25 13:29 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 04/25/25 13:29 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 04/25/25 13:29 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 13:29 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 04/25/25 13:29 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 04/25/25 13:29 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 04/25/25 13:29 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 04/25/25 13:29 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 04/25/25 13:29 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 04/25/25 13:29 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 04/25/25 13:29 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 04/25/25 13:29 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 04/25/25 13:29 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 04/25/25 13:29 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *77 - 120* | | *04/25/25 13:29* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *04/25/25 13:29* | *1* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *73 - 120* | | *04/25/25 13:29* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *75 - 123* | | *04/25/25 13:29* | *1* |

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

**Lab Sample ID: LCS 480-744485/6**
**Matrix: Water**
**Analysis Batch: 744485**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 25.0 | 24.9 | | ug/L | | 100 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 26.2 | | ug/L | | 105 | 70 - 126 |
| 1,1,2-Trichloroethane | 25.0 | 24.9 | | ug/L | | 100 | 76 - 122 |
| 1,1-Dichloroethane | 25.0 | 26.1 | | ug/L | | 104 | 71 - 129 |
| 1,1-Dichloroethene | 25.0 | 23.0 | | ug/L | | 92 | 58 - 121 |
| 1,2-Dichlorobenzene | 25.0 | 25.4 | | ug/L | | 101 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 24.8 | | ug/L | | 99 | 75 - 127 |
| 1,2-Dichloropropane | 25.0 | 25.5 | | ug/L | | 102 | 76 - 120 |
| 1,3-Dichlorobenzene | 25.0 | 24.9 | | ug/L | | 100 | 77 - 120 |
| 1,4-Dichlorobenzene | 25.0 | 24.9 | | ug/L | | 99 | 75 - 120 |
| 2-Hexanone | 125 | 143 | | ug/L | | 115 | 65 - 127 |
| 2-Butanone (MEK) | 125 | 141 | | ug/L | | 113 | 57 - 140 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 140 | | ug/L | | 112 | 71 - 125 |
| Acetone | 125 | 141 | | ug/L | | 113 | 56 - 142 |
| Benzene | 25.0 | 24.5 | | ug/L | | 98 | 71 - 124 |
| Bromodichloromethane | 25.0 | 25.0 | | ug/L | | 100 | 80 - 122 |
| Bromoform | 25.0 | 22.4 | | ug/L | | 90 | 66 - 128 |
| Bromomethane | 25.0 | 22.9 | | ug/L | | 92 | 55 - 144 |
| Carbon disulfide | 25.0 | 24.3 | | ug/L | | 97 | 59 - 134 |
| Carbon tetrachloride | 25.0 | 24.1 | | ug/L | | 97 | 72 - 134 |
| Chlorobenzene | 25.0 | 23.7 | | ug/L | | 95 | 72 - 120 |
| Dibromochloromethane | 25.0 | 24.4 | | ug/L | | 97 | 75 - 125 |
| Chloroethane | 25.0 | 23.4 | | ug/L | | 94 | 69 - 136 |
| Chloroform | 25.0 | 22.5 | | ug/L | | 90 | 73 - 127 |
| Chloromethane | 25.0 | 25.2 | | ug/L | | 101 | 68 - 124 |
| cis-1,2-Dichloroethene | 25.0 | 24.1 | | ug/L | | 97 | 74 - 124 |
| cis-1,3-Dichloropropene | 25.0 | 24.0 | | ug/L | | 96 | 74 - 124 |
| Ethylbenzene | 25.0 | 24.8 | | ug/L | | 99 | 77 - 123 |
| Methylene Chloride | 25.0 | 24.6 | | ug/L | | 98 | 57 - 132 |
| Styrene | 25.0 | 24.4 | | ug/L | | 97 | 70 - 130 |
| Tetrachloroethene | 25.0 | 24.2 | | ug/L | | 97 | 74 - 122 |
| Toluene | 25.0 | 25.4 | | ug/L | | 102 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 24.5 | | ug/L | | 98 | 73 - 127 |
| trans-1,3-Dichloropropene | 25.0 | 24.7 | | ug/L | | 99 | 72 - 123 |
| Trichloroethene | 25.0 | 23.6 | | ug/L | | 95 | 74 - 123 |
| Vinyl chloride | 25.0 | 24.4 | | ug/L | | 97 | 65 - 133 |
| Xylenes, Total | 50.0 | 47.7 | | ug/L | | 95 | 76 - 122 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *77 - 120* |
| *Toluene-d8 (Surr)* | *103* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *73 - 120* |
| *Dibromofluoromethane (Surr)* | *98* | | *75 - 123* |

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

**Lab Sample ID: MB 480-744516/1-A**
**Matrix: Water**
**Analysis Batch: 744659**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 744516**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | | 1.9 | 0.44 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.9 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.9 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 1,4-Dichlorobenzene | ND | | 4.4 | 0.46 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 1,4-Dioxane | ND | | 10 | 1.1 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |

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

**Lab Sample ID: MB 480-744516/1-A**
**Matrix: Water**
**Analysis Batch: 744659**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 744516**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/25/25 13:45 | 04/28/25 15:12 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *62* | | *29 - 129* | *04/25/25 13:45* | *04/28/25 15:12* | *1* |
| *2-Fluorobiphenyl* | *73* | | *53 - 126* | *04/25/25 13:45* | *04/28/25 15:12* | *1* |
| *p-Terphenyl-d14* | *100* | | *33 - 132* | *04/25/25 13:45* | *04/28/25 15:12* | *1* |
| *Phenol-d5* | *33* | | *10 - 120* | *04/25/25 13:45* | *04/28/25 15:12* | *1* |
| *2-Fluorophenol* | *48* | | *24 - 120* | *04/25/25 13:45* | *04/28/25 15:12* | *1* |
| *2,4,6-Tribromophenol* | *85* | | *25 - 144* | *04/25/25 13:45* | *04/28/25 15:12* | *1* |

**Lab Sample ID: LCS 480-744516/2-A**
**Matrix: Water**
**Analysis Batch: 744659**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 744516**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 32.0 | 26.5 | | ug/L | | 83 | 40 - 120 |
| 1,2-Dichlorobenzene | 32.0 | 25.8 | | ug/L | | 81 | 33 - 120 |
| 1,3-Dichlorobenzene | 32.0 | 24.8 | | ug/L | | 77 | 28 - 120 |
| 1,4-Dichlorobenzene | 32.0 | 24.7 | | ug/L | | 77 | 32 - 120 |
| 2,2'-oxybis(1-chloropropane) | 32.0 | 23.2 | | ug/L | | 73 | 47 - 120 |
| 1,4-Dioxane | 32.0 | 14.6 | | ug/L | | 46 | 11 - 120 |
| 2,4,5-Trichlorophenol | 32.0 | 31.0 | | ug/L | | 97 | 65 - 126 |
| 2,4,6-Trichlorophenol | 32.0 | 30.8 | | ug/L | | 96 | 64 - 120 |
| 2,4-Dichlorophenol | 32.0 | 32.2 | | ug/L | | 101 | 64 - 120 |
| 2,4-Dimethylphenol | 32.0 | 30.5 | | ug/L | | 95 | 57 - 120 |
| 2,4-Dinitrophenol | 64.0 | 69.2 | | ug/L | | 108 | 42 - 153 |
| 2,4-Dinitrotoluene | 32.0 | 31.8 | | ug/L | | 99 | 59 - 125 |
| 2,6-Dinitrotoluene | 32.0 | 32.0 | | ug/L | | 100 | 74 - 134 |
| 2-Chloronaphthalene | 32.0 | 26.7 | | ug/L | | 83 | 52 - 120 |
| 2-Chlorophenol | 32.0 | 27.9 | | ug/L | | 87 | 48 - 120 |

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

**Lab Sample ID: LCS 480-744516/2-A**
**Matrix: Water**
**Analysis Batch: 744659**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 744516**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | 32.0 | 28.0 | | ug/L | | 88 | 48 - 120 |
| 2-Methylphenol | 32.0 | 25.8 | | ug/L | | 81 | 39 - 120 |
| 2-Nitroaniline | 32.0 | 29.4 | | ug/L | | 92 | 67 - 136 |
| 2-Nitrophenol | 32.0 | 29.5 | | ug/L | | 92 | 59 - 120 |
| 3,3'-Dichlorobenzidine | 32.0 | 28.0 | | ug/L | | 87 | 33 - 140 |
| 3-Nitroaniline | 32.0 | 21.1 | | ug/L | | 66 | 51 - 120 |
| 4,6-Dinitro-2-methylphenol | 64.0 | 77.1 | | ug/L | | 120 | 64 - 159 |
| 4-Bromophenyl phenyl ether | 32.0 | 32.9 | | ug/L | | 103 | 71 - 126 |
| 4-Chloro-3-methylphenol | 32.0 | 33.6 | | ug/L | | 105 | 64 - 120 |
| 4-Chloroaniline | 32.0 | 19.3 | | ug/L | | 60 | 60 - 124 |
| 4-Chlorophenyl phenyl ether | 32.0 | 29.6 | | ug/L | | 92 | 71 - 122 |
| 4-Methylphenol | 32.0 | 26.3 | | ug/L | | 82 | 39 - 120 |
| 4-Nitroaniline | 32.0 | 27.1 | | ug/L | | 85 | 64 - 135 |
| 4-Nitrophenol | 64.0 | 47.1 | | ug/L | | 74 | 16 - 120 |
| Acenaphthene | 32.0 | 29.2 | | ug/L | | 91 | 60 - 120 |
| Acenaphthylene | 32.0 | 30.3 | | ug/L | | 95 | 63 - 120 |
| Anthracene | 32.0 | 33.8 | | ug/L | | 105 | 69 - 131 |
| Benzo(a)anthracene | 32.0 | 33.1 | | ug/L | | 103 | 73 - 138 |
| Benzo(a)pyrene | 32.0 | 33.7 | | ug/L | | 105 | 74 - 126 |
| Benzo(b)fluoranthene | 32.0 | 30.4 | | ug/L | | 95 | 75 - 133 |
| Benzo(ghi)perylene | 32.0 | 33.5 | | ug/L | | 105 | 66 - 152 |
| Benzo(k)fluoranthene | 32.0 | 35.4 | | ug/L | | 111 | 75 - 133 |
| Benzyl alcohol | 32.0 | 27.0 | | ug/L | | 84 | 49 - 120 |
| Bis(2-chloroethoxy)methane | 32.0 | 27.6 | | ug/L | | 86 | 62 - 120 |
| Bis(2-chloroethyl)ether | 32.0 | 28.8 | | ug/L | | 90 | 51 - 120 |
| Bis(2-ethylhexyl) phthalate | 32.0 | 32.1 | | ug/L | | 100 | 63 - 139 |
| Butyl benzyl phthalate | 32.0 | 32.0 | | ug/L | | 100 | 62 - 149 |
| Chrysene | 32.0 | 35.1 | | ug/L | | 110 | 69 - 140 |
| Dibenzo(a,h)anthracene | 32.0 | 33.6 | | ug/L | | 105 | 67 - 144 |
| Dibenzofuran | 32.0 | 30.8 | | ug/L | | 96 | 66 - 120 |
| Diethyl phthalate | 32.0 | 33.0 | | ug/L | | 103 | 78 - 128 |
| Dimethyl phthalate | 32.0 | 31.2 | | ug/L | | 97 | 73 - 127 |
| Di-n-butyl phthalate | 32.0 | 31.8 | | ug/L | | 99 | 67 - 132 |
| Di-n-octyl phthalate | 32.0 | 29.8 | | ug/L | | 93 | 63 - 140 |
| Fluoranthene | 32.0 | 35.9 | | ug/L | | 112 | 67 - 133 |
| Fluorene | 32.0 | 31.1 | | ug/L | | 97 | 66 - 129 |
| Hexachlorobenzene | 32.0 | 33.3 | | ug/L | | 104 | 38 - 131 |
| Benzoic acid | 256 | 135 | | ug/L | | 53 | 10 - 120 |
| Hexachlorobutadiene | 32.0 | 22.5 | | ug/L | | 70 | 30 - 120 |
| Hexachlorocyclopentadiene | 32.0 | 18.3 | | ug/L | | 57 | 23 - 120 |
| Hexachloroethane | 32.0 | 22.5 | | ug/L | | 70 | 25 - 120 |
| Indeno(1,2,3-cd)pyrene | 32.0 | 33.0 | | ug/L | | 103 | 69 - 146 |
| Isophorone | 32.0 | 29.8 | | ug/L | | 93 | 64 - 120 |
| Carbazole | 32.0 | 36.3 | | ug/L | | 113 | 68 - 133 |
| Naphthalene | 32.0 | 27.8 | | ug/L | | 87 | 48 - 120 |
| Nitrobenzene | 32.0 | 27.1 | | ug/L | | 85 | 52 - 120 |
| N-Nitrosodi-n-propylamine | 32.0 | 28.6 | | ug/L | | 90 | 56 - 120 |
| N-Nitrosodiphenylamine | 32.0 | 32.9 | | ug/L | | 103 | 25 - 125 |
| Pentachlorophenol | 64.0 | 70.4 | | ug/L | | 110 | 39 - 136 |

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

**Lab Sample ID: LCS 480-744516/2-A**
**Matrix: Water**
**Analysis Batch: 744659**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 744516**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Phenanthrene | | | 32.0 | 33.9 | | ug/L | | 106 | 67 - 130 | | |
| Phenol | | | 32.0 | 15.7 | | ug/L | | 49 | 17 - 120 | | |
| Pyrene | | | 32.0 | 33.9 | | ug/L | | 106 | 58 - 136 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *88* | | *29 - 129* |
| *2-Fluorobiphenyl* | *90* | | *53 - 126* |
| *p-Terphenyl-d14* | *106* | | *33 - 132* |
| *Phenol-d5* | *47* | | *10 - 120* |
| *2-Fluorophenol* | *65* | | *24 - 120* |
| *2,4,6-Tribromophenol* | *117* | | *25 - 144* |

**Lab Sample ID: MB 480-744629/1-A**
**Matrix: Water**
**Analysis Batch: 744620**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 744629**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.705 | J | 1.9 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.9 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 1,4-Dichlorobenzene | ND | | 4.4 | 0.46 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 2,2'-oxybis(1-chloropropane) | ND | | 5.7 | 0.52 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 1,4-Dioxane | ND | | 10 | 1.1 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 2,4,6-Trichlorophenol | ND | | 3.1 | 0.61 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 2,4-Dichlorophenol | ND | | 2.8 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 2,4-Dimethylphenol | ND | | 2.8 | 0.50 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 2,4-Dinitrophenol | ND | | 43 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 2,4-Dinitrotoluene | ND | | 5.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.46 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 2-Chlorophenol | ND | | 3.3 | 0.53 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 2-Methylnaphthalene | ND | | 10 | 0.60 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 2-Methylphenol | ND | | 10 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 2-Nitroaniline | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 2-Nitrophenol | ND | | 3.6 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 17 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 3-Nitroaniline | ND | | 10 | 0.48 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 24 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.8 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 4-Chloro-3-methylphenol | ND | | 3.0 | 0.45 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 4-Chloroaniline | ND | | 2.0 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 4-Methylphenol | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 4-Nitroaniline | ND | | 10 | 0.25 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.5 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Acenaphthene | ND | | 1.8 | 0.41 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Acenaphthylene | ND | | 3.5 | 0.38 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |

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

**Lab Sample ID: MB 480-744629/1-A**
**Matrix: Water**
**Analysis Batch: 744620**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 744629**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Anthracene | ND | | 1.8 | 0.28 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Benzo(a)anthracene | ND | | 7.8 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Benzo(a)pyrene | ND | | 2.6 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Benzo(b)fluoranthene | ND | | 10 | 0.34 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Benzo(ghi)perylene | ND | | 4.1 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Benzo(k)fluoranthene | ND | | 2.5 | 0.73 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Benzyl alcohol | ND | | 7.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 5.3 | 0.35 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Bis(2-chloroethyl)ether | ND | | 5.7 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 10 | 1.8 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Chrysene | ND | | 2.5 | 0.33 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Dibenzo(a,h)anthracene | ND | | 10 | 0.42 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Dibenzofuran | ND | | 10 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Diethyl phthalate | ND | | 10 | 0.22 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 0.31 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Fluoranthene | ND | | 2.2 | 0.40 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Fluorene | ND | | 1.9 | 0.36 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Hexachlorobenzene | ND | | 2.2 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Benzoic acid | ND | | 100 | 100 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Hexachlorobutadiene | ND | | 2.6 | 0.68 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Hexachloroethane | ND | | 2.8 | 0.59 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 4.8 | 0.47 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Isophorone | ND | | 2.2 | 0.43 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Carbazole | ND | | 10 | 0.30 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Naphthalene | ND | | 1.6 | 0.76 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Nitrobenzene | ND | | 2.0 | 0.29 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 5.0 | 0.54 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.9 | 0.51 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Pentachlorophenol | ND | | 5.1 | 2.2 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Phenol | ND | | 2.5 | 0.39 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |
| Pyrene | ND | | 1.9 | 0.34 | ug/L | | 04/28/25 09:29 | 04/28/25 17:52 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *62* | | *29 - 129* | *04/28/25 09:29* | *04/28/25 17:52* | *1* |
| *2-Fluorobiphenyl* | *72* | | *53 - 126* | *04/28/25 09:29* | *04/28/25 17:52* | *1* |
| *p-Terphenyl-d14* | *79* | | *33 - 132* | *04/28/25 09:29* | *04/28/25 17:52* | *1* |
| *Phenol-d5* | *33* | | *10 - 120* | *04/28/25 09:29* | *04/28/25 17:52* | *1* |
| *2-Fluorophenol* | *47* | | *24 - 120* | *04/28/25 09:29* | *04/28/25 17:52* | *1* |
| *2,4,6-Tribromophenol* | *71* | | *25 - 144* | *04/28/25 09:29* | *04/28/25 17:52* | *1* |

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

**Lab Sample ID: LCS 480-744629/2-A**
**Matrix: Water**
**Analysis Batch: 744620**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 744629**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 32.0 | 23.5 | | ug/L | | 73 | 40 - 120 |
| 1,2-Dichlorobenzene | 32.0 | 22.0 | | ug/L | | 69 | 33 - 120 |
| 1,3-Dichlorobenzene | 32.0 | 22.0 | | ug/L | | 69 | 28 - 120 |
| 1,4-Dichlorobenzene | 32.0 | 22.1 | | ug/L | | 69 | 32 - 120 |
| 2,2'-oxybis(1-chloropropane) | 32.0 | 19.1 | | ug/L | | 60 | 47 - 120 |
| 1,4-Dioxane | 32.0 | 13.4 | | ug/L | | 42 | 11 - 120 |
| 2,4,5-Trichlorophenol | 32.0 | 26.3 | | ug/L | | 82 | 65 - 126 |
| 2,4,6-Trichlorophenol | 32.0 | 25.1 | | ug/L | | 78 | 64 - 120 |
| 2,4-Dichlorophenol | 32.0 | 25.1 | | ug/L | | 78 | 64 - 120 |
| 2,4-Dimethylphenol | 32.0 | 23.6 | | ug/L | | 74 | 57 - 120 |
| 2,4-Dinitrophenol | 64.0 | 70.3 | | ug/L | | 110 | 42 - 153 |
| 2,4-Dinitrotoluene | 32.0 | 28.0 | | ug/L | | 87 | 59 - 125 |
| 2,6-Dinitrotoluene | 32.0 | 27.0 | | ug/L | | 84 | 74 - 134 |
| 2-Chloronaphthalene | 32.0 | 23.3 | | ug/L | | 73 | 52 - 120 |
| 2-Chlorophenol | 32.0 | 22.2 | | ug/L | | 69 | 48 - 120 |
| 2-Methylnaphthalene | 32.0 | 23.3 | | ug/L | | 73 | 48 - 120 |
| 2-Methylphenol | 32.0 | 22.5 | | ug/L | | 70 | 39 - 120 |
| 2-Nitroaniline | 32.0 | 23.4 | | ug/L | | 73 | 67 - 136 |
| 2-Nitrophenol | 32.0 | 24.4 | | ug/L | | 76 | 59 - 120 |
| 3,3'-Dichlorobenzidine | 32.0 | 25.6 | | ug/L | | 80 | 33 - 140 |
| 3-Nitroaniline | 32.0 | 21.0 | | ug/L | | 66 | 51 - 120 |
| 4,6-Dinitro-2-methylphenol | 64.0 | 64.9 | | ug/L | | 101 | 64 - 159 |
| 4-Bromophenyl phenyl ether | 32.0 | 26.1 | | ug/L | | 82 | 71 - 126 |
| 4-Chloro-3-methylphenol | 32.0 | 25.0 | | ug/L | | 78 | 64 - 120 |
| 4-Chloroaniline | 32.0 | 19.8 | | ug/L | | 62 | 60 - 124 |
| 4-Chlorophenyl phenyl ether | 32.0 | 26.0 | | ug/L | | 81 | 71 - 122 |
| 4-Methylphenol | 32.0 | 20.5 | | ug/L | | 64 | 39 - 120 |
| 4-Nitroaniline | 32.0 | 26.0 | | ug/L | | 81 | 64 - 135 |
| 4-Nitrophenol | 64.0 | 41.6 | | ug/L | | 65 | 16 - 120 |
| Acenaphthene | 32.0 | 24.0 | | ug/L | | 75 | 60 - 120 |
| Acenaphthylene | 32.0 | 24.8 | | ug/L | | 77 | 63 - 120 |
| Anthracene | 32.0 | 26.9 | | ug/L | | 84 | 69 - 131 |
| Benzo(a)anthracene | 32.0 | 25.8 | | ug/L | | 81 | 73 - 138 |
| Benzo(a)pyrene | 32.0 | 26.9 | | ug/L | | 84 | 74 - 126 |
| Benzo(b)fluoranthene | 32.0 | 26.2 | | ug/L | | 82 | 75 - 133 |
| Benzo(ghi)perylene | 32.0 | 26.0 | | ug/L | | 81 | 66 - 152 |
| Benzo(k)fluoranthene | 32.0 | 26.2 | | ug/L | | 82 | 75 - 133 |
| Benzyl alcohol | 32.0 | 20.0 | | ug/L | | 63 | 49 - 120 |
| Bis(2-chloroethoxy)methane | 32.0 | 22.6 | | ug/L | | 71 | 62 - 120 |
| Bis(2-chloroethyl)ether | 32.0 | 25.5 | | ug/L | | 80 | 51 - 120 |
| Bis(2-ethylhexyl) phthalate | 32.0 | 21.7 | | ug/L | | 68 | 63 - 139 |
| Butyl benzyl phthalate | 32.0 | 23.8 | | ug/L | | 74 | 62 - 149 |
| Chrysene | 32.0 | 26.7 | | ug/L | | 83 | 69 - 140 |
| Dibenzo(a,h)anthracene | 32.0 | 26.0 | | ug/L | | 81 | 67 - 144 |
| Dibenzofuran | 32.0 | 25.6 | | ug/L | | 80 | 66 - 120 |
| Diethyl phthalate | 32.0 | 27.7 | | ug/L | | 87 | 78 - 128 |
| Dimethyl phthalate | 32.0 | 28.1 | | ug/L | | 88 | 73 - 127 |
| Di-n-butyl phthalate | 32.0 | 24.2 | | ug/L | | 76 | 67 - 132 |

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

**Lab Sample ID: LCS 480-744629/2-A**
**Matrix: Water**
**Analysis Batch: 744620**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 744629**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Di-n-octyl phthalate | 32.0 | 20.9 | | ug/L | | 65 | 63 - 140 |
| Fluoranthene | 32.0 | 28.3 | | ug/L | | 88 | 67 - 133 |
| Fluorene | 32.0 | 26.1 | | ug/L | | 82 | 66 - 129 |
| Hexachlorobenzene | 32.0 | 26.6 | | ug/L | | 83 | 38 - 131 |
| Benzoic acid | 256 | 114 | | ug/L | | 44 | 10 - 120 |
| Hexachlorobutadiene | 32.0 | 21.3 | | ug/L | | 66 | 30 - 120 |
| Hexachlorocyclopentadiene | 32.0 | 17.2 | | ug/L | | 54 | 23 - 120 |
| Hexachloroethane | 32.0 | 19.4 | | ug/L | | 60 | 25 - 120 |
| Indeno(1,2,3-cd)pyrene | 32.0 | 25.8 | | ug/L | | 81 | 69 - 146 |
| Isophorone | 32.0 | 22.9 | | ug/L | | 72 | 64 - 120 |
| Carbazole | 32.0 | 29.7 | | ug/L | | 93 | 68 - 133 |
| Naphthalene | 32.0 | 23.0 | | ug/L | | 72 | 48 - 120 |
| Nitrobenzene | 32.0 | 22.3 | | ug/L | | 70 | 52 - 120 |
| N-Nitrosodi-n-propylamine | 32.0 | 22.0 | | ug/L | | 69 | 56 - 120 |
| N-Nitrosodiphenylamine | 32.0 | 25.8 | | ug/L | | 81 | 25 - 125 |
| Pentachlorophenol | 64.0 | 59.4 | | ug/L | | 93 | 39 - 136 |
| Phenanthrene | 32.0 | 25.8 | | ug/L | | 81 | 67 - 130 |
| Phenol | 32.0 | 13.2 | | ug/L | | 41 | 17 - 120 |
| Pyrene | 32.0 | 27.7 | | ug/L | | 87 | 58 - 136 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *69* | | *29 - 129* |
| *2-Fluorobiphenyl* | *78* | | *53 - 126* |
| *p-Terphenyl-d14* | *79* | | *33 - 132* |
| *Phenol-d5* | *39* | | *10 - 120* |
| *2-Fluorophenol* | *52* | | *24 - 120* |
| *2,4,6-Tribromophenol* | *90* | | *25 - 144* |

**Lab Sample ID: 480-228898-10 MS**
**Matrix: Water**
**Analysis Batch: 744620**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 744629**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.52 | J B | 32.0 | 26.1 | | ug/L | | 80 | 49 - 120 |
| 1,2-Dichlorobenzene | 0.93 | J | 32.0 | 23.3 | | ug/L | | 70 | 48 - 120 |
| 1,3-Dichlorobenzene | 1.0 | J | 32.0 | 23.1 | | ug/L | | 69 | 51 - 120 |
| 1,4-Dichlorobenzene | 3.1 | J | 32.0 | 25.2 | | ug/L | | 69 | 32 - 150 |
| 2,2'-oxybis(1-chloropropane) | ND | | 32.0 | 18.3 | | ug/L | | 57 | 28 - 121 |
| 1,4-Dioxane | 4.9 | J | 32.0 | 17.1 | | ug/L | | 38 | 32 - 120 |
| 2,4,5-Trichlorophenol | ND | | 32.0 | 25.8 | | ug/L | | 81 | 65 - 126 |
| 2,4,6-Trichlorophenol | ND | | 32.0 | 26.8 | | ug/L | | 84 | 64 - 120 |
| 2,4-Dichlorophenol | ND | | 32.0 | 25.8 | | ug/L | | 81 | 48 - 132 |
| 2,4-Dimethylphenol | ND | | 32.0 | 23.8 | | ug/L | | 74 | 39 - 130 |
| 2,4-Dinitrophenol | ND | | 64.0 | 72.4 | | ug/L | | 113 | 21 - 150 |
| 2,4-Dinitrotoluene | ND | | 32.0 | 29.6 | | ug/L | | 92 | 54 - 138 |
| 2,6-Dinitrotoluene | ND | | 32.0 | 26.4 | | ug/L | | 83 | 17 - 150 |
| 2-Chloronaphthalene | ND | | 32.0 | 23.8 | | ug/L | | 74 | 52 - 124 |
| 2-Chlorophenol | ND | | 32.0 | 21.8 | | ug/L | | 68 | 48 - 120 |

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

**Lab Sample ID: 480-228898-10 MS**
**Matrix: Water**
**Analysis Batch: 744620**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 744629**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | ND | | 32.0 | 23.8 | | ug/L | | 74 | 34 - 140 |
| 2-Methylphenol | ND | | 32.0 | 21.2 | | ug/L | | 66 | 46 - 120 |
| 2-Nitroaniline | ND | | 32.0 | 24.2 | | ug/L | | 76 | 44 - 136 |
| 2-Nitrophenol | ND | | 32.0 | 25.4 | | ug/L | | 79 | 38 - 141 |
| 3,3'-Dichlorobenzidine | ND | F2 | 32.0 | 20.7 | | ug/L | | 65 | 10 - 150 |
| 3-Nitroaniline | ND | | 32.0 | 20.3 | | ug/L | | 63 | 32 - 150 |
| 4,6-Dinitro-2-methylphenol | ND | | 64.0 | 67.1 | | ug/L | | 105 | 38 - 150 |
| 4-Bromophenyl phenyl ether | ND | | 32.0 | 27.9 | | ug/L | | 87 | 63 - 126 |
| 4-Chloro-3-methylphenol | ND | | 32.0 | 26.0 | | ug/L | | 81 | 64 - 127 |
| 4-Chloroaniline | ND | F2 | 32.0 | 11.2 | | ug/L | | 35 | 16 - 124 |
| 4-Chlorophenyl phenyl ether | ND | | 32.0 | 26.8 | | ug/L | | 84 | 61 - 120 |
| 4-Methylphenol | ND | | 32.0 | 20.1 | | ug/L | | 63 | 36 - 120 |
| 4-Nitroaniline | ND | | 32.0 | 26.8 | | ug/L | | 84 | 32 - 150 |
| 4-Nitrophenol | ND | | 64.0 | 43.1 | | ug/L | | 67 | 23 - 132 |
| Acenaphthene | ND | | 32.0 | 24.4 | | ug/L | | 76 | 48 - 120 |
| Acenaphthylene | ND | | 32.0 | 25.2 | | ug/L | | 79 | 63 - 120 |
| Anthracene | ND | | 32.0 | 24.7 | | ug/L | | 77 | 65 - 122 |
| Benzo(a)anthracene | ND | | 32.0 | 24.1 | | ug/L | | 75 | 43 - 124 |
| Benzo(a)pyrene | ND | | 32.0 | 23.2 | | ug/L | | 73 | 23 - 125 |
| Benzo(b)fluoranthene | ND | | 32.0 | 22.8 | | ug/L | | 71 | 27 - 127 |
| Benzo(ghi)perylene | ND | | 32.0 | 22.9 | | ug/L | | 72 | 16 - 147 |
| Benzo(k)fluoranthene | ND | | 32.0 | 22.8 | | ug/L | | 71 | 20 - 124 |
| Benzyl alcohol | ND | F1 | 32.0 | 19.0 | F1 | ug/L | | 60 | 63 - 130 |
| Bis(2-chloroethoxy)methane | ND | | 32.0 | 22.7 | | ug/L | | 71 | 44 - 128 |
| Bis(2-chloroethyl)ether | ND | | 32.0 | 26.2 | | ug/L | | 82 | 45 - 120 |
| Bis(2-ethylhexyl) phthalate | ND | | 32.0 | 19.4 | | ug/L | | 61 | 16 - 150 |
| Butyl benzyl phthalate | ND | | 32.0 | 22.7 | | ug/L | | 71 | 51 - 140 |
| Chrysene | ND | | 32.0 | 23.4 | | ug/L | | 73 | 44 - 122 |
| Dibenzo(a,h)anthracene | ND | | 32.0 | 22.5 | | ug/L | | 70 | 16 - 139 |
| Dibenzofuran | ND | | 32.0 | 26.0 | | ug/L | | 81 | 60 - 120 |
| Diethyl phthalate | ND | | 32.0 | 28.2 | | ug/L | | 88 | 53 - 133 |
| Dimethyl phthalate | ND | | 32.0 | 28.5 | | ug/L | | 89 | 59 - 123 |
| Di-n-butyl phthalate | ND | | 32.0 | 22.1 | | ug/L | | 69 | 65 - 129 |
| Di-n-octyl phthalate | ND | | 32.0 | 18.7 | | ug/L | | 58 | 16 - 150 |
| Fluoranthene | ND | | 32.0 | 26.6 | | ug/L | | 83 | 63 - 129 |
| Fluorene | ND | | 32.0 | 26.3 | | ug/L | | 82 | 62 - 120 |
| Hexachlorobenzene | ND | | 32.0 | 26.6 | | ug/L | | 83 | 57 - 121 |
| Benzoic acid | ND | | 256 | 122 | | ug/L | | 48 | 10 - 146 |
| Hexachlorobutadiene | ND | | 32.0 | 21.9 | | ug/L | | 69 | 37 - 120 |
| Hexachlorocyclopentadiene | ND | | 32.0 | 19.4 | | ug/L | | 61 | 21 - 120 |
| Hexachloroethane | ND | | 32.0 | 19.6 | | ug/L | | 61 | 16 - 130 |
| Indeno(1,2,3-cd)pyrene | ND | | 32.0 | 22.4 | | ug/L | | 70 | 16 - 140 |
| Isophorone | ND | | 32.0 | 23.4 | | ug/L | | 73 | 48 - 133 |
| Carbazole | ND | | 32.0 | 30.8 | | ug/L | | 96 | 16 - 148 |
| Naphthalene | ND | | 32.0 | 23.1 | | ug/L | | 72 | 45 - 120 |
| Nitrobenzene | ND | | 32.0 | 22.7 | | ug/L | | 71 | 45 - 123 |
| N-Nitrosodi-n-propylamine | ND | | 32.0 | 22.0 | | ug/L | | 69 | 49 - 120 |
| N-Nitrosodiphenylamine | ND | | 32.0 | 26.3 | | ug/L | | 82 | 39 - 138 |
| Pentachlorophenol | ND | | 64.0 | 63.2 | | ug/L | | 99 | 10 - 149 |

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

**Lab Sample ID: 480-228898-10 MS**
**Matrix: Water**
**Analysis Batch: 744620**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 744629**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Phenanthrene | ND | | 32.0 | 28.6 | | ug/L | | 89 | 65 - 122 |
| Phenol | ND | | 32.0 | 12.3 | | ug/L | | 38 | 16 - 120 |
| Pyrene | ND | | 32.0 | 26.3 | | ug/L | | 82 | 58 - 128 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *69* | | *29 - 129* |
| *2-Fluorobiphenyl* | *78* | | *53 - 126* |
| *p-Terphenyl-d14* | *65* | | *33 - 132* |
| *Phenol-d5* | *37* | | *10 - 120* |
| *2-Fluorophenol* | *49* | | *24 - 120* |
| *2,4,6-Tribromophenol* | *94* | | *25 - 144* |

**Lab Sample ID: 480-228898-10 MSD**
**Matrix: Water**
**Analysis Batch: 744620**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 744629**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.52 | J B | 32.0 | 28.2 | | ug/L | | 86 | 49 - 120 | 8 | 30 |
| 1,2-Dichlorobenzene | 0.93 | J | 32.0 | 26.1 | | ug/L | | 79 | 48 - 120 | 11 | 29 |
| 1,3-Dichlorobenzene | 1.0 | J | 32.0 | 25.7 | | ug/L | | 77 | 51 - 120 | 11 | 37 |
| 1,4-Dichlorobenzene | 3.1 | J | 32.0 | 28.1 | | ug/L | | 78 | 32 - 150 | 11 | 36 |
| 2,2'-oxybis(1-chloropropane) | ND | | 32.0 | 19.8 | | ug/L | | 62 | 28 - 121 | 8 | 24 |
| 1,4-Dioxane | 4.9 | J | 32.0 | 19.3 | | ug/L | | 45 | 32 - 120 | 12 | 50 |
| 2,4,5-Trichlorophenol | ND | | 32.0 | 29.4 | | ug/L | | 92 | 65 - 126 | 13 | 18 |
| 2,4,6-Trichlorophenol | ND | | 32.0 | 32.4 | | ug/L | | 101 | 64 - 120 | 19 | 19 |
| 2,4-Dichlorophenol | ND | | 32.0 | 29.3 | | ug/L | | 92 | 48 - 132 | 13 | 19 |
| 2,4-Dimethylphenol | ND | | 32.0 | 27.2 | | ug/L | | 85 | 39 - 130 | 14 | 42 |
| 2,4-Dinitrophenol | ND | | 64.0 | 80.9 | | ug/L | | 126 | 21 - 150 | 11 | 22 |
| 2,4-Dinitrotoluene | ND | | 32.0 | 29.9 | | ug/L | | 93 | 54 - 138 | 1 | 20 |
| 2,6-Dinitrotoluene | ND | | 32.0 | 28.1 | | ug/L | | 88 | 17 - 150 | 6 | 15 |
| 2-Chloronaphthalene | ND | | 32.0 | 27.3 | | ug/L | | 85 | 52 - 124 | 14 | 21 |
| 2-Chlorophenol | ND | | 32.0 | 24.6 | | ug/L | | 77 | 48 - 120 | 12 | 25 |
| 2-Methylnaphthalene | ND | | 32.0 | 26.6 | | ug/L | | 83 | 34 - 140 | 11 | 21 |
| 2-Methylphenol | ND | | 32.0 | 24.0 | | ug/L | | 75 | 46 - 120 | 12 | 27 |
| 2-Nitroaniline | ND | | 32.0 | 27.5 | | ug/L | | 86 | 44 - 136 | 13 | 15 |
| 2-Nitrophenol | ND | | 32.0 | 29.0 | | ug/L | | 91 | 38 - 141 | 13 | 18 |
| 3,3'-Dichlorobenzidine | ND | F2 | 32.0 | 26.9 | F2 | ug/L | | 84 | 10 - 150 | 26 | 25 |
| 3-Nitroaniline | ND | | 32.0 | 22.6 | | ug/L | | 71 | 32 - 150 | 11 | 19 |
| 4,6-Dinitro-2-methylphenol | ND | | 64.0 | 75.2 | | ug/L | | 118 | 38 - 150 | 11 | 15 |
| 4-Bromophenyl phenyl ether | ND | | 32.0 | 26.9 | | ug/L | | 84 | 63 - 126 | 3 | 15 |
| 4-Chloro-3-methylphenol | ND | | 32.0 | 29.6 | | ug/L | | 92 | 64 - 127 | 13 | 27 |
| 4-Chloroaniline | ND | F2 | 32.0 | 16.7 | F2 | ug/L | | 52 | 16 - 124 | 39 | 22 |
| 4-Chlorophenyl phenyl ether | ND | | 32.0 | 27.9 | | ug/L | | 87 | 61 - 120 | 4 | 16 |
| 4-Methylphenol | ND | | 32.0 | 22.5 | | ug/L | | 70 | 36 - 120 | 11 | 24 |
| 4-Nitroaniline | ND | | 32.0 | 31.1 | | ug/L | | 97 | 32 - 150 | 15 | 24 |
| 4-Nitrophenol | ND | | 64.0 | 41.6 | | ug/L | | 65 | 23 - 132 | 4 | 48 |
| Acenaphthene | ND | | 32.0 | 27.9 | | ug/L | | 87 | 48 - 120 | 13 | 24 |
| Acenaphthylene | ND | | 32.0 | 29.5 | | ug/L | | 92 | 63 - 120 | 16 | 18 |

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

**Lab Sample ID: 480-228898-10 MSD**
**Matrix: Water**
**Analysis Batch: 744620**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 744629**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Anthracene | ND | | 32.0 | 27.4 | | ug/L | | 86 | 65 - 122 | 10 | 15 |
| Benzo(a)anthracene | ND | | 32.0 | 26.6 | | ug/L | | 83 | 43 - 124 | 10 | 15 |
| Benzo(a)pyrene | ND | | 32.0 | 26.3 | | ug/L | | 82 | 23 - 125 | 12 | 15 |
| Benzo(b)fluoranthene | ND | | 32.0 | 24.8 | | ug/L | | 78 | 27 - 127 | 8 | 15 |
| Benzo(ghi)perylene | ND | | 32.0 | 25.6 | | ug/L | | 80 | 16 - 147 | 11 | 15 |
| Benzo(k)fluoranthene | ND | | 32.0 | 26.5 | | ug/L | | 83 | 20 - 124 | 15 | 22 |
| Benzyl alcohol | ND | F1 | 32.0 | 20.9 | | ug/L | | 65 | 63 - 130 | 9 | 34 |
| Bis(2-chloroethoxy)methane | ND | | 32.0 | 25.6 | | ug/L | | 80 | 44 - 128 | 12 | 17 |
| Bis(2-chloroethyl)ether | ND | | 32.0 | 27.0 | | ug/L | | 85 | 45 - 120 | 3 | 21 |
| Bis(2-ethylhexyl) phthalate | ND | | 32.0 | 22.0 | | ug/L | | 69 | 16 - 150 | 13 | 15 |
| Butyl benzyl phthalate | ND | | 32.0 | 25.1 | | ug/L | | 78 | 51 - 140 | 10 | 16 |
| Chrysene | ND | | 32.0 | 26.2 | | ug/L | | 82 | 44 - 122 | 11 | 15 |
| Dibenzo(a,h)anthracene | ND | | 32.0 | 25.4 | | ug/L | | 79 | 16 - 139 | 12 | 15 |
| Dibenzofuran | ND | | 32.0 | 30.1 | | ug/L | | 94 | 60 - 120 | 15 | 15 |
| Diethyl phthalate | ND | | 32.0 | 31.6 | | ug/L | | 99 | 53 - 133 | 11 | 15 |
| Dimethyl phthalate | ND | | 32.0 | 32.2 | | ug/L | | 101 | 59 - 123 | 12 | 15 |
| Di-n-butyl phthalate | ND | | 32.0 | 24.1 | | ug/L | | 75 | 65 - 129 | 8 | 15 |
| Di-n-octyl phthalate | ND | | 32.0 | 21.8 | | ug/L | | 68 | 16 - 150 | 15 | 16 |
| Fluoranthene | ND | | 32.0 | 28.2 | | ug/L | | 88 | 63 - 129 | 6 | 15 |
| Fluorene | ND | | 32.0 | 30.3 | | ug/L | | 95 | 62 - 120 | 14 | 15 |
| Hexachlorobenzene | ND | | 32.0 | 27.6 | | ug/L | | 86 | 57 - 121 | 3 | 15 |
| Benzoic acid | ND | | 256 | 135 | | ug/L | | 53 | 10 - 146 | 10 | 50 |
| Hexachlorobutadiene | ND | | 32.0 | 25.7 | | ug/L | | 80 | 37 - 120 | 16 | 44 |
| Hexachlorocyclopentadiene | ND | | 32.0 | 23.5 | | ug/L | | 74 | 21 - 120 | 19 | 49 |
| Hexachloroethane | ND | | 32.0 | 21.9 | | ug/L | | 68 | 16 - 130 | 11 | 46 |
| Indeno(1,2,3-cd)pyrene | ND | | 32.0 | 25.6 | | ug/L | | 80 | 16 - 140 | 14 | 15 |
| Isophorone | ND | | 32.0 | 26.4 | | ug/L | | 83 | 48 - 133 | 12 | 17 |
| Carbazole | ND | | 32.0 | 34.9 | | ug/L | | 109 | 16 - 148 | 12 | 20 |
| Naphthalene | ND | | 32.0 | 26.0 | | ug/L | | 81 | 45 - 120 | 12 | 29 |
| Nitrobenzene | ND | | 32.0 | 25.4 | | ug/L | | 79 | 45 - 123 | 11 | 24 |
| N-Nitrosodi-n-propylamine | ND | | 32.0 | 24.3 | | ug/L | | 76 | 49 - 120 | 10 | 31 |
| N-Nitrosodiphenylamine | ND | | 32.0 | 27.1 | | ug/L | | 85 | 39 - 138 | 3 | 15 |
| Pentachlorophenol | ND | | 64.0 | 72.8 | | ug/L | | 114 | 10 - 149 | 14 | 37 |
| Phenanthrene | ND | | 32.0 | 32.4 | | ug/L | | 101 | 65 - 122 | 12 | 15 |
| Phenol | ND | | 32.0 | 13.5 | | ug/L | | 42 | 16 - 120 | 10 | 34 |
| Pyrene | ND | | 32.0 | 28.1 | | ug/L | | 88 | 58 - 128 | 7 | 19 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *77* | | *29 - 129* |
| *2-Fluorobiphenyl* | *89* | | *53 - 126* |
| *p-Terphenyl-d14* | *70* | | *33 - 132* |
| *Phenol-d5* | *41* | | *10 - 120* |
| *2-Fluorophenol* | *55* | | *24 - 120* |
| *2,4,6-Tribromophenol* | *97* | | *25 - 144* |

## Method: 8015D - Gasoline Range Organics (GRO) (GC)

### Lab Sample ID: MB 410-636949/34
**Matrix: Water**
**Analysis Batch: 636949**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C10) | ND | | 50 | 18 | ug/L | | | 04/29/25 23:45 | 1 |
| Gasoline (Unleaded) | ND | | 50 | 20 | ug/L | | | 04/29/25 23:45 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *99* | | *63 - 135* | | *04/29/25 23:45* | *1* |

### Lab Sample ID: MB 410-636949/5
**Matrix: Water**
**Analysis Batch: 636949**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C10) | ND | | 50 | 18 | ug/L | | | 04/29/25 11:53 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *100* | | *63 - 135* | | *04/29/25 11:53* | *1* |

### Lab Sample ID: LCS 410-636949/35
**Matrix: Water**
**Analysis Batch: 636949**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline (Unleaded) | | | 1100 | 951 | | ug/L | | 86 | 66 - 128 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *88* | | *63 - 135* |

### Lab Sample ID: LCS 410-636949/6
**Matrix: Water**
**Analysis Batch: 636949**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline (Unleaded) | | | 1100 | 1040 | | ug/L | | 94 | 66 - 128 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *88* | | *63 - 135* |

### Lab Sample ID: LCSD 410-636949/36
**Matrix: Water**
**Analysis Batch: 636949**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline (Unleaded) | | | 1100 | 1010 | | ug/L | | 91 | 66 - 128 | 6 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *86* | | *63 - 135* |

## Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

**Lab Sample ID: LCSD 410-636949/7**
**Matrix: Water**
**Analysis Batch: 636949**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline (Unleaded) | | | 1100 | 1060 | | ug/L | | 96 | 66 - 128 | 2 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *86* | | *63 - 135* |

**Lab Sample ID: 480-228898-10 MS**
**Matrix: Water**
**Analysis Batch: 636949**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline (Unleaded) | 38 | J | 1140 | 1140 | | ug/L | | 97 | 66 - 128 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *88* | | *63 - 135* |

**Lab Sample ID: 480-228898-10 MSD**
**Matrix: Water**
**Analysis Batch: 636949**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline (Unleaded) | 38 | J | 1140 | 999 | | ug/L | | 84 | 66 - 128 | 13 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *86* | | *63 - 135* |

**Lab Sample ID: MB 410-638104/5**
**Matrix: Water**
**Analysis Batch: 638104**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C10) | ND | | 50 | 18 | ug/L | | | 05/01/25 11:23 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *95* | | *63 - 135* | | *05/01/25 11:23* | *1* |

**Lab Sample ID: LCS 410-638104/6**
**Matrix: Water**
**Analysis Batch: 638104**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline (Unleaded) | | | 1100 | 1040 | | ug/L | | 94 | 66 - 128 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *86* | | *63 - 135* |

## Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

**Lab Sample ID: LCSD 410-638104/7**
**Matrix: Water**
**Analysis Batch: 638104**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline (Unleaded) | | | 1100 | 1040 | | ug/L | | 95 | 66 - 128 | 0 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *85* | | *63 - 135* |

## Method: 8015D - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 410-635517/1-A**
**Matrix: Water**
**Analysis Batch: 635809**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 635517**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 1000 | 620 | ug/L | | 04/25/25 08:27 | 04/26/25 07:20 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *90* | | *32 - 125* | *04/25/25 08:27* | *04/26/25 07:20* | *1* |

**Lab Sample ID: LCS 410-635517/2-A**
**Matrix: Water**
**Analysis Batch: 635809**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 635517**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 602 | ND | | ug/L | | 71 | 38 - 111 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr)* | *91* | | *32 - 125* |

**Lab Sample ID: MB 410-637207/1-A**
**Matrix: Water**
**Analysis Batch: 637874**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 637207**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 1000 | 620 | ug/L | | 04/29/25 15:58 | 04/30/25 21:05 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *73* | | *32 - 125* | *04/29/25 15:58* | *04/30/25 21:05* | *1* |

**Lab Sample ID: LCS 410-637207/2-A**
**Matrix: Water**
**Analysis Batch: 637874**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 637207**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 602 | ND | | ug/L | | 75 | 38 - 111 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr)* | *78* | | *32 - 125* |

## Method: 8015D - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: 480-228898-10 MS**
**Matrix: Water**
**Analysis Batch: 637874**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 637207**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 568 | ND | | ug/L | | NC | 20 - 115 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr)* | *70* | | *32 - 125* |

**Lab Sample ID: 480-228898-10 MSD**
**Matrix: Water**
**Analysis Batch: 637874**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 637207**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 589 | ND | | ug/L | | NC | 20 - 115 | NC | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr)* | *69* | | *32 - 125* |

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 480-744189/1-A**
**Matrix: Water**
**Analysis Batch: 744356**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 744189**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 04/23/25 08:24 | 04/23/25 22:43 | 1 |
| Iron | ND | | 0.15 | 0.019 | mg/L | | 04/23/25 08:24 | 04/23/25 22:43 | 1 |
| Manganese | ND | | 0.0050 | 0.00040 | mg/L | | 04/23/25 08:24 | 04/23/25 22:43 | 1 |

**Lab Sample ID: LCS 480-744189/2-A**
**Matrix: Water**
**Analysis Batch: 744356**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 744189**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 1.00 | 0.930 | | mg/L | | 93 | 80 - 120 |
| Iron | 5.10 | 5.75 | | mg/L | | 113 | 80 - 120 |
| Manganese | 0.500 | 0.498 | | mg/L | | 100 | 80 - 120 |

**Lab Sample ID: MB 480-744307/1-A**
**Matrix: Water**
**Analysis Batch: 744477**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 744307**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 04/24/25 08:55 | 04/24/25 17:19 | 1 |
| Manganese | 0.000870 | J | 0.0050 | 0.00040 | mg/L | | 04/24/25 08:55 | 04/24/25 17:19 | 1 |

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: MB 480-744307/1-A**
**Matrix: Water**
**Analysis Batch: 744512**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 744307**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Iron | 0.0692 | J | 0.15 | 0.019 | mg/L | | 04/24/25 08:55 | 04/25/25 11:28 | 1 |

**Lab Sample ID: LCS 480-744307/2-A**
**Matrix: Water**
**Analysis Batch: 744477**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 744307**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 1.00 | 0.977 | | mg/L | | 98 | 80 - 120 |
| Manganese | 0.500 | 0.509 | | mg/L | | 102 | 80 - 120 |

**Lab Sample ID: LCS 480-744307/2-A**
**Matrix: Water**
**Analysis Batch: 744512**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 744307**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Iron | 5.10 | 5.69 | | mg/L | | 112 | 80 - 120 |

**Lab Sample ID: 480-228898-10 MS**
**Matrix: Water**
**Analysis Batch: 744477**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 744307**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.048 | | 1.00 | 1.02 | | mg/L | | 97 | 75 - 125 |
| Manganese | 14.0 | B | 0.500 | 14.42 | 4 | mg/L | | 88 | 75 - 125 |

**Lab Sample ID: 480-228898-10 MS**
**Matrix: Water**
**Analysis Batch: 744512**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 744307**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Iron | 30.4 | B | 5.10 | 35.15 | 4 | mg/L | | 93 | 75 - 125 |

**Lab Sample ID: 480-228898-10 MSD**
**Matrix: Water**
**Analysis Batch: 744477**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 744307**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.048 | | 1.00 | 1.03 | | mg/L | | 99 | 75 - 125 | 1 | 20 |
| Manganese | 14.0 | B | 0.500 | 14.89 | 4 | mg/L | | 181 | 75 - 125 | 3 | 20 |

**Lab Sample ID: 480-228898-10 MSD**
**Matrix: Water**
**Analysis Batch: 744512**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 744307**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | 30.4 | B | 5.10 | 37.28 | 4 | mg/L | | 134 | 75 - 125 | 6 | 20 |

## Method: 310.2 - Alkalinity

**Lab Sample ID: MB 480-744468/13**
**Matrix: Water**
**Analysis Batch: 744468**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 4.0 | mg/L | | | 04/24/25 08:59 | 1 |

**Lab Sample ID: MB 480-744468/18**
**Matrix: Water**
**Analysis Batch: 744468**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:00 | 1 |

**Lab Sample ID: MB 480-744468/29**
**Matrix: Water**
**Analysis Batch: 744468**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:03 | 1 |

**Lab Sample ID: MB 480-744468/47**
**Matrix: Water**
**Analysis Batch: 744468**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:48 | 1 |

**Lab Sample ID: MB 480-744468/59**
**Matrix: Water**
**Analysis Batch: 744468**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:51 | 1 |

**Lab Sample ID: MB 480-744468/81**
**Matrix: Water**
**Analysis Batch: 744468**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 4.0 | mg/L | | | 04/24/25 09:56 | 1 |

**Lab Sample ID: MB 480-744468/85**
**Matrix: Water**
**Analysis Batch: 744468**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 4.17 | J | 5.0 | 4.0 | mg/L | | | 04/24/25 11:28 | 1 |

**Lab Sample ID: LCS 480-744468/17**
**Matrix: Water**
**Analysis Batch: 744468**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | | | 50.0 | 49.05 | | mg/L | | 98 | 90 - 110 | | |

## Method: 310.2 - Alkalinity

**Lab Sample ID: LCS 480-744468/28**
**Matrix: Water**
**Analysis Batch: 744468**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 50.0 | 46.61 | | mg/L | | 93 | 90 - 110 |

**Lab Sample ID: LCS 480-744468/46**
**Matrix: Water**
**Analysis Batch: 744468**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 50.0 | 52.37 | | mg/L | | 105 | 90 - 110 |

**Lab Sample ID: LCS 480-744468/58**
**Matrix: Water**
**Analysis Batch: 744468**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 50.0 | 48.71 | | mg/L | | 97 | 90 - 110 |

**Lab Sample ID: LCS 480-744468/84**
**Matrix: Water**
**Analysis Batch: 744468**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 50.0 | 51.10 | | mg/L | | 102 | 90 - 110 |

**Lab Sample ID: 480-228898-10 MS**
**Matrix: Water**
**Analysis Batch: 744468**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 50.6 | F1 F2 | 20.0 | 93.42 | F1 | mg/L | | 214 | 60 - 140 |

**Lab Sample ID: 480-228898-10 MSD**
**Matrix: Water**
**Analysis Batch: 744468**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 50.6 | F1 F2 | 20.0 | 71.41 | F2 | mg/L | | 104 | 60 - 140 | 27 | 20 |

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: MB 480-744308/5**
**Matrix: Water**
**Analysis Batch: 744308**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia | ND | | 0.050 | 0.0090 | mg/L | | | 04/23/25 13:13 | 1 |

## Method: 350.1 - Nitrogen, Ammonia (Continued)

**Lab Sample ID: LCS 480-744308/6**
**Matrix: Water**
**Analysis Batch: 744308**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | | | 1.00 | 0.998 | | mg/L | | 100 | 90 - 110 | | |

**Lab Sample ID: 480-228881-2 MS**
**Matrix: Water**
**Analysis Batch: 744308**

**Client Sample ID: MW-20A**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | 0.17 | F1 | 0.0800 | 0.277 | F1 | mg/L | | 131 | 90 - 110 | | |

**Lab Sample ID: 480-228881-2 MSD**
**Matrix: Water**
**Analysis Batch: 744308**

**Client Sample ID: MW-20A**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | 0.17 | F1 | 0.0800 | 0.299 | F1 | mg/L | | 159 | 90 - 110 | 8 | 20 |

**Lab Sample ID: MB 480-744371/26**
**Matrix: Water**
**Analysis Batch: 744371**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia | ND | | 0.050 | 0.0090 | mg/L | | | 04/23/25 17:21 | 1 |

**Lab Sample ID: MB 480-744371/5**
**Matrix: Water**
**Analysis Batch: 744371**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia | ND | | 0.050 | 0.0090 | mg/L | | | 04/23/25 17:03 | 1 |

**Lab Sample ID: LCS 480-744371/27**
**Matrix: Water**
**Analysis Batch: 744371**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | | | 1.00 | 1.03 | | mg/L | | 103 | 90 - 110 | | |

**Lab Sample ID: LCS 480-744371/6**
**Matrix: Water**
**Analysis Batch: 744371**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | | | 1.00 | 0.991 | | mg/L | | 99 | 90 - 110 | | |

**Lab Sample ID: 480-228898-6 MS**
**Matrix: Ground Water**
**Analysis Batch: 744371**

**Client Sample ID: MW-18C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | 0.58 | F1 | 4.00 | 0.762 | F1 | mg/L | | 5 | 90 - 110 | | |

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: 480-228898-10 MS**
**Matrix: Water**
**Analysis Batch: 744371**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia | 1.7 | F1 | 4.00 | 1.83 | F1 | mg/L | | 3 | 90 - 110 |

**Lab Sample ID: 480-228898-10 MSD**
**Matrix: Water**
**Analysis Batch: 744371**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | 1.7 | F1 | 4.00 | 1.92 | F1 | mg/L | | 5 | 90 - 110 | 4 | 20 |

**Lab Sample ID: MB 480-744426/5**
**Matrix: Water**
**Analysis Batch: 744426**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia | ND | | 0.050 | 0.0090 | mg/L | | | 04/24/25 14:11 | 1 |

**Lab Sample ID: LCS 480-744426/6**
**Matrix: Water**
**Analysis Batch: 744426**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Ammonia | 1.00 | 1.01 | | mg/L | | 101 | 90 - 110 |

**Lab Sample ID: 480-228898-9 MS**
**Matrix: Water**
**Analysis Batch: 744426**

**Client Sample ID: MW-1B**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia | 3.4 | | 0.0800 | 3.62 | 4 | mg/L | | 264 | 90 - 110 |

**Lab Sample ID: 480-228898-9 MSD**
**Matrix: Water**
**Analysis Batch: 744426**

**Client Sample ID: MW-1B**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | 3.4 | | 0.0800 | 3.61 | 4 | mg/L | | 248 | 90 - 110 | 0 | 20 |

## Method: 353.2 - Nitrogen, Nitrate-Nitrite

**Lab Sample ID: MB 480-744372/28**
**Matrix: Water**
**Analysis Batch: 744372**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | ND | | 0.050 | 0.020 | mg/L | | | 04/23/25 19:08 | 1 |

## Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

**Lab Sample ID: MB 480-744372/49**
**Matrix: Water**
**Analysis Batch: 744372**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | ND | | 0.050 | 0.020 | mg/L | | | 04/23/25 19:50 | 1 |

**Lab Sample ID: MB 480-744372/70**
**Matrix: Water**
**Analysis Batch: 744372**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | ND | | 0.050 | 0.020 | mg/L | | | 04/23/25 20:33 | 1 |

**Lab Sample ID: LCS 480-744372/29**
**Matrix: Water**
**Analysis Batch: 744372**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 1.50 | 1.48 | | mg/L | | 99 | 90 - 110 |

**Lab Sample ID: LCS 480-744372/50**
**Matrix: Water**
**Analysis Batch: 744372**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 1.50 | 1.46 | | mg/L | | 97 | 90 - 110 |

**Lab Sample ID: LCS 480-744372/71**
**Matrix: Water**
**Analysis Batch: 744372**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 1.50 | 1.49 | | mg/L | | 99 | 90 - 110 |

**Lab Sample ID: 480-228881-3 MS**
**Matrix: Water**
**Analysis Batch: 744372**

**Client Sample ID: MW-20B**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 0.026 | J F1 | 0.998 | 0.533 | F1 | mg/L | | 51 | 90 - 110 |

**Lab Sample ID: 480-228898-3 MS**
**Matrix: Water**
**Analysis Batch: 744372**

**Client Sample ID: MW-11**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 0.026 | J F1 | 0.998 | 0.831 | F1 | mg/L | | 81 | 90 - 110 |

**Lab Sample ID: 480-228898-3 MSD**
**Matrix: Water**
**Analysis Batch: 744372**

**Client Sample ID: MW-11**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 0.026 | J F1 | 0.998 | 0.832 | F1 | mg/L | | 81 | 90 - 110 | 0 | 20 |

## Method: 353.2 - Nitrogen, Nitrate-Nitrite

**Lab Sample ID: 480-228898-9 MS**
**Matrix: Water**
**Analysis Batch: 744372**

**Client Sample ID: MW-1B**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 0.029 | J F1 | 0.998 | 0.488 | F1 | mg/L | | 46 | 90 - 110 | | |

**Lab Sample ID: 480-228898-10 MS**
**Matrix: Water**
**Analysis Batch: 744372**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 0.040 | J F1 | 0.998 | 0.438 | F1 | mg/L | | 40 | 90 - 110 | | |

**Lab Sample ID: 480-228898-10 MSD**
**Matrix: Water**
**Analysis Batch: 744372**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 0.040 | J F1 | 0.998 | 0.443 | F1 | mg/L | | 40 | 90 - 110 | 1 | 20 |

## Method: D516-90, 02 - Sulfate

**Lab Sample ID: MB 480-744889/15**
**Matrix: Water**
**Analysis Batch: 744889**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 04/30/25 13:01 | 1 |

**Lab Sample ID: MB 480-744889/31**
**Matrix: Water**
**Analysis Batch: 744889**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 04/30/25 13:57 | 1 |

**Lab Sample ID: MB 480-744889/40**
**Matrix: Water**
**Analysis Batch: 744889**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 04/30/25 14:00 | 1 |

**Lab Sample ID: MB 480-744889/48**
**Matrix: Water**
**Analysis Batch: 744889**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 04/30/25 14:02 | 1 |

## Method: D516-90, 02 - Sulfate (Continued)

**Lab Sample ID: LCS 480-744889/14**
**Matrix: Water**
**Analysis Batch: 744889**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | | 30.0 | 31.46 | | mg/L | | 105 | 90 - 110 | | |

**Lab Sample ID: LCS 480-744889/30**
**Matrix: Water**
**Analysis Batch: 744889**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | | 30.0 | 31.77 | | mg/L | | 106 | 90 - 110 | | |

**Lab Sample ID: LCS 480-744889/39**
**Matrix: Water**
**Analysis Batch: 744889**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | | 30.0 | 31.61 | | mg/L | | 105 | 90 - 110 | | |

**Lab Sample ID: LCS 480-744889/47**
**Matrix: Water**
**Analysis Batch: 744889**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | | 30.0 | 31.88 | | mg/L | | 106 | 90 - 110 | | |

**Lab Sample ID: 480-228898-2 MS**
**Matrix: Water**
**Analysis Batch: 744889**

**Client Sample ID: MW-10**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 15.3 | | 20.0 | 37.74 | | mg/L | | 112 | 60 - 128 | | |

**Lab Sample ID: 480-228898-2 MSD**
**Matrix: Water**
**Analysis Batch: 744889**

**Client Sample ID: MW-10**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 15.3 | | 20.0 | 37.24 | | mg/L | | 109 | 60 - 128 | 1 | 20 |

**Lab Sample ID: 480-228898-10 MS**
**Matrix: Water**
**Analysis Batch: 744889**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | F1 | 20.0 | 25.59 | | mg/L | | 128 | 60 - 128 | | |

**Lab Sample ID: 480-228898-10 MSD**
**Matrix: Water**
**Analysis Batch: 744889**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | F1 | 20.0 | 25.85 | F1 | mg/L | | 129 | 60 - 128 | 1 | 20 |

## Method: SM 5310C - TOC

**Lab Sample ID: MB 480-744282/28**
**Matrix: Water**
**Analysis Batch: 744282**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 1.0 | 0.43 | mg/L | | | 04/23/25 04:23 | 1 |

**Lab Sample ID: MB 480-744282/4**
**Matrix: Water**
**Analysis Batch: 744282**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 1.0 | 0.43 | mg/L | | | 04/22/25 17:17 | 1 |

**Lab Sample ID: LCS 480-744282/29**
**Matrix: Water**
**Analysis Batch: 744282**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 30.0 | 29.45 | | mg/L | | 98 | 90 - 110 |

**Lab Sample ID: LCS 480-744282/5**
**Matrix: Water**
**Analysis Batch: 744282**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 30.0 | 29.15 | | mg/L | | 97 | 90 - 110 |

**Lab Sample ID: 480-228881-2 MS**
**Matrix: Water**
**Analysis Batch: 744282**

**Client Sample ID: MW-20A**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 23.3 | 24.86 | | mg/L | | 107 | 54 - 131 |

**Lab Sample ID: 480-228881-4 MS**
**Matrix: Ground Water**
**Analysis Batch: 744282**

**Client Sample ID: MW-22**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 23.3 | 24.61 | | mg/L | | 106 | 54 - 131 |

**Lab Sample ID: 480-228881-6 MS**
**Matrix: Water**
**Analysis Batch: 744282**

**Client Sample ID: EX-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 3.0 | | 23.3 | 27.05 | | mg/L | | 104 | 54 - 131 |

**Lab Sample ID: 480-228881-3 DU**
**Matrix: Water**
**Analysis Batch: 744282**

**Client Sample ID: MW-20B**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | ND | | mg/L | | NC | 20 |

## Method: SM 5310C - TOC

**Lab Sample ID: 480-228881-5 DU**
**Matrix: Ground Water**
**Analysis Batch: 744282**

**Client Sample ID: FDUP-02-GW**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | ND | | mg/L | | NC | 20 |

**Lab Sample ID: MB 480-744609/28**
**Matrix: Water**
**Analysis Batch: 744609**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 1.0 | 0.43 | mg/L | | | 04/25/25 01:04 | 1 |

**Lab Sample ID: MB 480-744609/52**
**Matrix: Water**
**Analysis Batch: 744609**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 1.0 | 0.43 | mg/L | | | 04/25/25 12:30 | 1 |

**Lab Sample ID: MB 480-744609/76**
**Matrix: Water**
**Analysis Batch: 744609**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 1.0 | 0.43 | mg/L | | | 04/25/25 23:57 | 1 |

**Lab Sample ID: LCS 480-744609/29**
**Matrix: Water**
**Analysis Batch: 744609**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 30.0 | 30.53 | | mg/L | | 102 | 90 - 110 |

**Lab Sample ID: LCS 480-744609/53**
**Matrix: Water**
**Analysis Batch: 744609**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 30.0 | 30.92 | | mg/L | | 103 | 90 - 110 |

**Lab Sample ID: LCS 480-744609/77**
**Matrix: Water**
**Analysis Batch: 744609**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 30.0 | 30.62 | | mg/L | | 102 | 90 - 110 |

**Lab Sample ID: 480-228898-1 MS**
**Matrix: Water**
**Analysis Batch: 744609**

**Client Sample ID: FDUP-01-GW**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 0.55 | J | 23.3 | 25.27 | | mg/L | | 106 | 54 - 131 |

## Method: SM 5310C - TOC

### Lab Sample ID: 480-228898-3 MS
**Matrix: Water**
**Analysis Batch: 744609**

**Client Sample ID: MW-11**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 0.53 | J | 23.3 | 25.22 | | mg/L | | 106 | 54 - 131 |

### Lab Sample ID: 480-228898-5 MS
**Matrix: Ground Water**
**Analysis Batch: 744609**

**Client Sample ID: MW-18B**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 4.0 | | 23.3 | 27.79 | | mg/L | | 102 | 54 - 131 |

### Lab Sample ID: 480-228898-10 MS
**Matrix: Water**
**Analysis Batch: 744609**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 5.8 | | 23.3 | 30.79 | | mg/L | | 107 | 54 - 131 |

### Lab Sample ID: 480-228898-10 MSD
**Matrix: Water**
**Analysis Batch: 744609**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 5.8 | | 23.3 | 30.82 | | mg/L | | 108 | 54 - 131 | 0 | 20 |

### Lab Sample ID: 480-228898-14 MS
**Matrix: Water**
**Analysis Batch: 744609**

**Client Sample ID: MW-7A**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 0.79 | J | 23.3 | 24.94 | | mg/L | | 104 | 54 - 131 |

### Lab Sample ID: 480-228898-2 DU
**Matrix: Water**
**Analysis Batch: 744609**

**Client Sample ID: MW-10**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 4.0 | | 4.81 | | mg/L | | 18 | 20 |

### Lab Sample ID: 480-228898-4 DU
**Matrix: Ground Water**
**Analysis Batch: 744609**

**Client Sample ID: MW-18A**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 0.69 | J | 0.550 | J F5 | mg/L | | 22 | 20 |

### Lab Sample ID: 480-228898-6 DU
**Matrix: Ground Water**
**Analysis Batch: 744609**

**Client Sample ID: MW-18C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 1.1 | | 1.14 | | mg/L | | 2 | 20 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Method: SM 5310C - TOC

**Lab Sample ID: 480-228898-15 DU**
**Matrix: Ground Water**
**Analysis Batch: 744609**

**Client Sample ID: MW-7M**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 1.1 | | | 1.03 | | mg/L | | | | 3 | 20 |

## GC/MS VOA

### Analysis Batch: 744382

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228881-1 | TRIP BLANK | Total/NA | Water | 8260C | |
| 480-228881-2 | MW-20A | Total/NA | Water | 8260C | |
| 480-228881-3 | MW-20B | Total/NA | Water | 8260C | |
| 480-228881-4 | MW-22 | Total/NA | Ground Water | 8260C | |
| 480-228881-5 | FDUP-02-GW | Total/NA | Ground Water | 8260C | |
| MB 480-744382/8 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-744382/6 | Lab Control Sample | Total/NA | Water | 8260C | |

### Analysis Batch: 744430

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-1 | FDUP-01-GW | Total/NA | Water | 8260C | |
| 480-228898-2 | MW-10 | Total/NA | Water | 8260C | |
| 480-228898-3 | MW-11 | Total/NA | Water | 8260C | |
| 480-228898-4 | MW-18A | Total/NA | Ground Water | 8260C | |
| 480-228898-5 | MW-18B | Total/NA | Ground Water | 8260C | |
| 480-228898-6 | MW-18C | Total/NA | Ground Water | 8260C | |
| 480-228898-7 | MW-19 | Total/NA | Ground Water | 8260C | |
| 480-228898-8 | MW-1A | Total/NA | Ground Water | 8260C | |
| 480-228898-9 | MW-1B | Total/NA | Water | 8260C | |
| 480-228898-10 | MW-1C | Total/NA | Water | 8260C | |
| 480-228898-11 | MW-21 | Total/NA | Ground Water | 8260C | |
| 480-228898-12 | MW-6A | Total/NA | Water | 8260C | |
| 480-228898-13 | MW-6B | Total/NA | Water | 8260C | |
| 480-228898-14 | MW-7A | Total/NA | Water | 8260C | |
| 480-228898-15 | MW-7M | Total/NA | Ground Water | 8260C | |
| 480-228898-16 | TRIP BLANK 2 | Total/NA | Distilled Water | 8260C | |
| 480-228898-17 | TRIP BLANK 3 | Total/NA | Ground Water | 8260C | |
| MB 480-744430/8 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-744430/6 | Lab Control Sample | Total/NA | Water | 8260C | |
| 480-228898-10 MS | MW-1C | Total/NA | Water | 8260C | |
| 480-228898-10 MSD | MW-1C | Total/NA | Water | 8260C | |

### Analysis Batch: 744485

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228881-6 | EX-1 | Total/NA | Water | 8260C | |
| MB 480-744485/9 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-744485/6 | Lab Control Sample | Total/NA | Water | 8260C | |

## GC/MS Semi VOA

### Prep Batch: 744516

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228881-2 | MW-20A | Total/NA | Water | 3510C | |
| 480-228881-3 | MW-20B | Total/NA | Water | 3510C | |
| 480-228881-4 | MW-22 | Total/NA | Ground Water | 3510C | |
| 480-228881-5 | FDUP-02-GW | Total/NA | Ground Water | 3510C | |
| 480-228881-6 | EX-1 | Total/NA | Water | 3510C | |
| MB 480-744516/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 480-744516/2-A | Lab Control Sample | Total/NA | Water | 3510C | |

## GC/MS Semi VOA

### Analysis Batch: 744620

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-1 | FDUP-01-GW | Total/NA | Water | 8270D | 744629 |
| 480-228898-2 | MW-10 | Total/NA | Water | 8270D | 744629 |
| 480-228898-3 | MW-11 | Total/NA | Water | 8270D | 744629 |
| 480-228898-4 | MW-18A | Total/NA | Ground Water | 8270D | 744629 |
| 480-228898-5 | MW-18B | Total/NA | Ground Water | 8270D | 744629 |
| 480-228898-6 | MW-18C | Total/NA | Ground Water | 8270D | 744629 |
| 480-228898-7 | MW-19 | Total/NA | Ground Water | 8270D | 744629 |
| 480-228898-8 | MW-1A | Total/NA | Ground Water | 8270D | 744629 |
| 480-228898-9 | MW-1B | Total/NA | Water | 8270D | 744629 |
| 480-228898-10 | MW-1C | Total/NA | Water | 8270D | 744629 |
| 480-228898-11 | MW-21 | Total/NA | Ground Water | 8270D | 744629 |
| 480-228898-12 | MW-6A | Total/NA | Water | 8270D | 744629 |
| MB 480-744629/1-A | Method Blank | Total/NA | Water | 8270D | 744629 |
| LCS 480-744629/2-A | Lab Control Sample | Total/NA | Water | 8270D | 744629 |
| 480-228898-10 MS | MW-1C | Total/NA | Water | 8270D | 744629 |
| 480-228898-10 MSD | MW-1C | Total/NA | Water | 8270D | 744629 |

### Prep Batch: 744629

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-1 | FDUP-01-GW | Total/NA | Water | 3510C | |
| 480-228898-2 | MW-10 | Total/NA | Water | 3510C | |
| 480-228898-3 | MW-11 | Total/NA | Water | 3510C | |
| 480-228898-4 | MW-18A | Total/NA | Ground Water | 3510C | |
| 480-228898-5 | MW-18B | Total/NA | Ground Water | 3510C | |
| 480-228898-6 | MW-18C | Total/NA | Ground Water | 3510C | |
| 480-228898-7 | MW-19 | Total/NA | Ground Water | 3510C | |
| 480-228898-8 | MW-1A | Total/NA | Ground Water | 3510C | |
| 480-228898-9 | MW-1B | Total/NA | Water | 3510C | |
| 480-228898-10 | MW-1C | Total/NA | Water | 3510C | |
| 480-228898-11 | MW-21 | Total/NA | Ground Water | 3510C | |
| 480-228898-12 | MW-6A | Total/NA | Water | 3510C | |
| 480-228898-13 | MW-6B | Total/NA | Water | 3510C | |
| 480-228898-14 | MW-7A | Total/NA | Water | 3510C | |
| 480-228898-15 | MW-7M | Total/NA | Ground Water | 3510C | |
| MB 480-744629/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 480-744629/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| 480-228898-10 MS | MW-1C | Total/NA | Water | 3510C | |
| 480-228898-10 MSD | MW-1C | Total/NA | Water | 3510C | |

### Analysis Batch: 744659

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228881-2 | MW-20A | Total/NA | Water | 8270D | 744516 |
| 480-228881-3 | MW-20B | Total/NA | Water | 8270D | 744516 |
| 480-228881-4 | MW-22 | Total/NA | Ground Water | 8270D | 744516 |
| 480-228881-5 | FDUP-02-GW | Total/NA | Ground Water | 8270D | 744516 |
| 480-228881-6 | EX-1 | Total/NA | Water | 8270D | 744516 |
| MB 480-744516/1-A | Method Blank | Total/NA | Water | 8270D | 744516 |
| LCS 480-744516/2-A | Lab Control Sample | Total/NA | Water | 8270D | 744516 |

## GC/MS Semi VOA

### Analysis Batch: 744662

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-13 | MW-6B | Total/NA | Water | 8270D | 744629 |
| 480-228898-14 | MW-7A | Total/NA | Water | 8270D | 744629 |

### Analysis Batch: 744735

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-15 | MW-7M | Total/NA | Ground Water | 8270D | 744629 |

## GC VOA

### Analysis Batch: 636949

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-1 | FDUP-01-GW | Total/NA | Water | 8015D | |
| 480-228898-8 | MW-1A | Total/NA | Ground Water | 8015D | |
| 480-228898-9 | MW-1B | Total/NA | Water | 8015D | |
| 480-228898-10 | MW-1C | Total/NA | Water | 8015D | |
| MB 410-636949/34 | Method Blank | Total/NA | Water | 8015D | |
| MB 410-636949/5 | Method Blank | Total/NA | Water | 8015D | |
| LCS 410-636949/35 | Lab Control Sample | Total/NA | Water | 8015D | |
| LCS 410-636949/6 | Lab Control Sample | Total/NA | Water | 8015D | |
| LCSD 410-636949/36 | Lab Control Sample Dup | Total/NA | Water | 8015D | |
| LCSD 410-636949/7 | Lab Control Sample Dup | Total/NA | Water | 8015D | |
| 480-228898-10 MS | MW-1C | Total/NA | Water | 8015D | |
| 480-228898-10 MSD | MW-1C | Total/NA | Water | 8015D | |

### Analysis Batch: 638104

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228881-6 | EX-1 | Total/NA | Water | 8015D | |
| 480-228898-2 | MW-10 | Total/NA | Water | 8015D | |
| 480-228898-3 | MW-11 | Total/NA | Water | 8015D | |
| MB 410-638104/5 | Method Blank | Total/NA | Water | 8015D | |
| LCS 410-638104/6 | Lab Control Sample | Total/NA | Water | 8015D | |
| LCSD 410-638104/7 | Lab Control Sample Dup | Total/NA | Water | 8015D | |

## GC Semi VOA

### Prep Batch: 635517

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228881-6 | EX-1 | Total/NA | Water | 3510C | |
| 480-228898-2 | MW-10 | Total/NA | Water | 3510C | |
| 480-228898-3 | MW-11 | Total/NA | Water | 3510C | |
| MB 410-635517/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 410-635517/2-A | Lab Control Sample | Total/NA | Water | 3510C | |

### Analysis Batch: 635809

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228881-6 | EX-1 | Total/NA | Water | 8015D | 635517 |
| 480-228898-2 | MW-10 | Total/NA | Water | 8015D | 635517 |
| 480-228898-3 | MW-11 | Total/NA | Water | 8015D | 635517 |
| MB 410-635517/1-A | Method Blank | Total/NA | Water | 8015D | 635517 |
| LCS 410-635517/2-A | Lab Control Sample | Total/NA | Water | 8015D | 635517 |

## GC Semi VOA

### Prep Batch: 637207

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-1 | FDUP-01-GW | Total/NA | Water | 3510C | |
| 480-228898-8 | MW-1A | Total/NA | Ground Water | 3510C | |
| 480-228898-9 | MW-1B | Total/NA | Water | 3510C | |
| 480-228898-10 | MW-1C | Total/NA | Water | 3510C | |
| MB 410-637207/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 410-637207/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| 480-228898-10 MS | MW-1C | Total/NA | Water | 3510C | |
| 480-228898-10 MSD | MW-1C | Total/NA | Water | 3510C | |

### Analysis Batch: 637874

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-1 | FDUP-01-GW | Total/NA | Water | 8015D | 637207 |
| 480-228898-8 | MW-1A | Total/NA | Ground Water | 8015D | 637207 |
| 480-228898-9 | MW-1B | Total/NA | Water | 8015D | 637207 |
| 480-228898-10 | MW-1C | Total/NA | Water | 8015D | 637207 |
| MB 410-637207/1-A | Method Blank | Total/NA | Water | 8015D | 637207 |
| LCS 410-637207/2-A | Lab Control Sample | Total/NA | Water | 8015D | 637207 |
| 480-228898-10 MS | MW-1C | Total/NA | Water | 8015D | 637207 |
| 480-228898-10 MSD | MW-1C | Total/NA | Water | 8015D | 637207 |

## Metals

### Prep Batch: 744189

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228881-2 | MW-20A | Total/NA | Water | 3005A | |
| 480-228881-3 | MW-20B | Total/NA | Water | 3005A | |
| 480-228881-4 | MW-22 | Total/NA | Ground Water | 3005A | |
| 480-228881-5 | FDUP-02-GW | Total/NA | Ground Water | 3005A | |
| 480-228881-6 | EX-1 | Total/NA | Water | 3005A | |
| MB 480-744189/1-A | Method Blank | Total/NA | Water | 3005A | |
| LCS 480-744189/2-A | Lab Control Sample | Total/NA | Water | 3005A | |

### Prep Batch: 744307

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-1 | FDUP-01-GW | Total/NA | Water | 3005A | |
| 480-228898-2 | MW-10 | Total/NA | Water | 3005A | |
| 480-228898-3 | MW-11 | Total/NA | Water | 3005A | |
| 480-228898-4 | MW-18A | Total/NA | Ground Water | 3005A | |
| 480-228898-5 | MW-18B | Total/NA | Ground Water | 3005A | |
| 480-228898-6 | MW-18C | Total/NA | Ground Water | 3005A | |
| 480-228898-7 | MW-19 | Total/NA | Ground Water | 3005A | |
| 480-228898-8 | MW-1A | Total/NA | Ground Water | 3005A | |
| 480-228898-9 | MW-1B | Total/NA | Water | 3005A | |
| 480-228898-10 | MW-1C | Total/NA | Water | 3005A | |
| 480-228898-11 | MW-21 | Total/NA | Ground Water | 3005A | |
| 480-228898-12 | MW-6A | Total/NA | Water | 3005A | |
| 480-228898-13 | MW-6B | Total/NA | Water | 3005A | |
| 480-228898-14 | MW-7A | Total/NA | Water | 3005A | |
| 480-228898-15 | MW-7M | Total/NA | Ground Water | 3005A | |
| MB 480-744307/1-A | Method Blank | Total/NA | Water | 3005A | |
| LCS 480-744307/2-A | Lab Control Sample | Total/NA | Water | 3005A | |

## Metals (Continued)

### Prep Batch: 744307 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-10 MS | MW-1C | Total/NA | Water | 3005A | |
| 480-228898-10 MSD | MW-1C | Total/NA | Water | 3005A | |

### Analysis Batch: 744356

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228881-2 | MW-20A | Total/NA | Water | 6010C | 744189 |
| 480-228881-3 | MW-20B | Total/NA | Water | 6010C | 744189 |
| 480-228881-4 | MW-22 | Total/NA | Ground Water | 6010C | 744189 |
| 480-228881-5 | FDUP-02-GW | Total/NA | Ground Water | 6010C | 744189 |
| 480-228881-6 | EX-1 | Total/NA | Water | 6010C | 744189 |
| MB 480-744189/1-A | Method Blank | Total/NA | Water | 6010C | 744189 |
| LCS 480-744189/2-A | Lab Control Sample | Total/NA | Water | 6010C | 744189 |

### Analysis Batch: 744477

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-1 | FDUP-01-GW | Total/NA | Water | 6010C | 744307 |
| 480-228898-2 | MW-10 | Total/NA | Water | 6010C | 744307 |
| 480-228898-3 | MW-11 | Total/NA | Water | 6010C | 744307 |
| 480-228898-4 | MW-18A | Total/NA | Ground Water | 6010C | 744307 |
| 480-228898-5 | MW-18B | Total/NA | Ground Water | 6010C | 744307 |
| 480-228898-6 | MW-18C | Total/NA | Ground Water | 6010C | 744307 |
| 480-228898-7 | MW-19 | Total/NA | Ground Water | 6010C | 744307 |
| 480-228898-8 | MW-1A | Total/NA | Ground Water | 6010C | 744307 |
| 480-228898-9 | MW-1B | Total/NA | Water | 6010C | 744307 |
| 480-228898-10 | MW-1C | Total/NA | Water | 6010C | 744307 |
| 480-228898-11 | MW-21 | Total/NA | Ground Water | 6010C | 744307 |
| 480-228898-12 | MW-6A | Total/NA | Water | 6010C | 744307 |
| 480-228898-13 | MW-6B | Total/NA | Water | 6010C | 744307 |
| 480-228898-14 | MW-7A | Total/NA | Water | 6010C | 744307 |
| 480-228898-15 | MW-7M | Total/NA | Ground Water | 6010C | 744307 |
| MB 480-744307/1-A | Method Blank | Total/NA | Water | 6010C | 744307 |
| LCS 480-744307/2-A | Lab Control Sample | Total/NA | Water | 6010C | 744307 |
| 480-228898-10 MS | MW-1C | Total/NA | Water | 6010C | 744307 |
| 480-228898-10 MSD | MW-1C | Total/NA | Water | 6010C | 744307 |

### Analysis Batch: 744512

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-1 | FDUP-01-GW | Total/NA | Water | 6010C | 744307 |
| 480-228898-2 | MW-10 | Total/NA | Water | 6010C | 744307 |
| 480-228898-3 | MW-11 | Total/NA | Water | 6010C | 744307 |
| 480-228898-4 | MW-18A | Total/NA | Ground Water | 6010C | 744307 |
| 480-228898-5 | MW-18B | Total/NA | Ground Water | 6010C | 744307 |
| 480-228898-6 | MW-18C | Total/NA | Ground Water | 6010C | 744307 |
| 480-228898-7 | MW-19 | Total/NA | Ground Water | 6010C | 744307 |
| 480-228898-8 | MW-1A | Total/NA | Ground Water | 6010C | 744307 |
| 480-228898-9 | MW-1B | Total/NA | Water | 6010C | 744307 |
| 480-228898-10 | MW-1C | Total/NA | Water | 6010C | 744307 |
| MB 480-744307/1-A | Method Blank | Total/NA | Water | 6010C | 744307 |
| LCS 480-744307/2-A | Lab Control Sample | Total/NA | Water | 6010C | 744307 |
| 480-228898-10 MS | MW-1C | Total/NA | Water | 6010C | 744307 |
| 480-228898-10 MSD | MW-1C | Total/NA | Water | 6010C | 744307 |

## General Chemistry

### Analysis Batch: 744282

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228881-2 | MW-20A | Total/NA | Water | SM 5310C | |
| 480-228881-3 | MW-20B | Total/NA | Water | SM 5310C | |
| 480-228881-4 | MW-22 | Total/NA | Ground Water | SM 5310C | |
| 480-228881-5 | FDUP-02-GW | Total/NA | Ground Water | SM 5310C | |
| 480-228881-6 | EX-1 | Total/NA | Water | SM 5310C | |
| MB 480-744282/28 | Method Blank | Total/NA | Water | SM 5310C | |
| MB 480-744282/4 | Method Blank | Total/NA | Water | SM 5310C | |
| LCS 480-744282/29 | Lab Control Sample | Total/NA | Water | SM 5310C | |
| LCS 480-744282/5 | Lab Control Sample | Total/NA | Water | SM 5310C | |
| 480-228881-2 MS | MW-20A | Total/NA | Water | SM 5310C | |
| 480-228881-4 MS | MW-22 | Total/NA | Ground Water | SM 5310C | |
| 480-228881-6 MS | EX-1 | Total/NA | Water | SM 5310C | |
| 480-228881-3 DU | MW-20B | Total/NA | Water | SM 5310C | |
| 480-228881-5 DU | FDUP-02-GW | Total/NA | Ground Water | SM 5310C | |

### Analysis Batch: 744308

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228881-2 | MW-20A | Total/NA | Water | 350.1 | |
| 480-228881-3 | MW-20B | Total/NA | Water | 350.1 | |
| 480-228881-4 | MW-22 | Total/NA | Ground Water | 350.1 | |
| 480-228881-5 | FDUP-02-GW | Total/NA | Ground Water | 350.1 | |
| 480-228881-6 | EX-1 | Total/NA | Water | 350.1 | |
| MB 480-744308/5 | Method Blank | Total/NA | Water | 350.1 | |
| LCS 480-744308/6 | Lab Control Sample | Total/NA | Water | 350.1 | |
| 480-228881-2 MS | MW-20A | Total/NA | Water | 350.1 | |
| 480-228881-2 MSD | MW-20A | Total/NA | Water | 350.1 | |

### Analysis Batch: 744371

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-1 | FDUP-01-GW | Total/NA | Water | 350.1 | |
| 480-228898-2 | MW-10 | Total/NA | Water | 350.1 | |
| 480-228898-3 | MW-11 | Total/NA | Water | 350.1 | |
| 480-228898-4 | MW-18A | Total/NA | Ground Water | 350.1 | |
| 480-228898-5 | MW-18B | Total/NA | Ground Water | 350.1 | |
| 480-228898-6 | MW-18C | Total/NA | Ground Water | 350.1 | |
| 480-228898-7 | MW-19 | Total/NA | Ground Water | 350.1 | |
| 480-228898-8 | MW-1A | Total/NA | Ground Water | 350.1 | |
| 480-228898-10 | MW-1C | Total/NA | Water | 350.1 | |
| 480-228898-12 | MW-6A | Total/NA | Water | 350.1 | |
| 480-228898-13 | MW-6B | Total/NA | Water | 350.1 | |
| 480-228898-14 | MW-7A | Total/NA | Water | 350.1 | |
| 480-228898-15 | MW-7M | Total/NA | Ground Water | 350.1 | |
| MB 480-744371/26 | Method Blank | Total/NA | Water | 350.1 | |
| MB 480-744371/5 | Method Blank | Total/NA | Water | 350.1 | |
| LCS 480-744371/27 | Lab Control Sample | Total/NA | Water | 350.1 | |
| LCS 480-744371/6 | Lab Control Sample | Total/NA | Water | 350.1 | |
| 480-228898-6 MS | MW-18C | Total/NA | Ground Water | 350.1 | |
| 480-228898-10 MS | MW-1C | Total/NA | Water | 350.1 | |
| 480-228898-10 MSD | MW-1C | Total/NA | Water | 350.1 | |

## General Chemistry

### Analysis Batch: 744372

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228881-2 | MW-20A | Total/NA | Water | 353.2 | |
| 480-228881-3 | MW-20B | Total/NA | Water | 353.2 | |
| 480-228881-4 | MW-22 | Total/NA | Ground Water | 353.2 | |
| 480-228881-5 | FDUP-02-GW | Total/NA | Ground Water | 353.2 | |
| 480-228881-6 | EX-1 | Total/NA | Water | 353.2 | |
| 480-228898-1 | FDUP-01-GW | Total/NA | Water | 353.2 | |
| 480-228898-2 | MW-10 | Total/NA | Water | 353.2 | |
| 480-228898-3 | MW-11 | Total/NA | Water | 353.2 | |
| 480-228898-4 | MW-18A | Total/NA | Ground Water | 353.2 | |
| 480-228898-5 | MW-18B | Total/NA | Ground Water | 353.2 | |
| 480-228898-6 | MW-18C | Total/NA | Ground Water | 353.2 | |
| 480-228898-7 | MW-19 | Total/NA | Ground Water | 353.2 | |
| 480-228898-8 | MW-1A | Total/NA | Ground Water | 353.2 | |
| 480-228898-9 | MW-1B | Total/NA | Water | 353.2 | |
| 480-228898-10 | MW-1C | Total/NA | Water | 353.2 | |
| 480-228898-11 | MW-21 | Total/NA | Ground Water | 353.2 | |
| 480-228898-12 | MW-6A | Total/NA | Water | 353.2 | |
| 480-228898-13 | MW-6B | Total/NA | Water | 353.2 | |
| 480-228898-14 | MW-7A | Total/NA | Water | 353.2 | |
| 480-228898-15 | MW-7M | Total/NA | Ground Water | 353.2 | |
| MB 480-744372/28 | Method Blank | Total/NA | Water | 353.2 | |
| MB 480-744372/49 | Method Blank | Total/NA | Water | 353.2 | |
| MB 480-744372/70 | Method Blank | Total/NA | Water | 353.2 | |
| LCS 480-744372/29 | Lab Control Sample | Total/NA | Water | 353.2 | |
| LCS 480-744372/50 | Lab Control Sample | Total/NA | Water | 353.2 | |
| LCS 480-744372/71 | Lab Control Sample | Total/NA | Water | 353.2 | |
| 480-228881-3 MS | MW-20B | Total/NA | Water | 353.2 | |
| 480-228898-3 MS | MW-11 | Total/NA | Water | 353.2 | |
| 480-228898-3 MSD | MW-11 | Total/NA | Water | 353.2 | |
| 480-228898-9 MS | MW-1B | Total/NA | Water | 353.2 | |
| 480-228898-10 MS | MW-1C | Total/NA | Water | 353.2 | |
| 480-228898-10 MSD | MW-1C | Total/NA | Water | 353.2 | |

### Analysis Batch: 744426

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-9 | MW-1B | Total/NA | Water | 350.1 | |
| 480-228898-11 | MW-21 | Total/NA | Ground Water | 350.1 | |
| MB 480-744426/5 | Method Blank | Total/NA | Water | 350.1 | |
| LCS 480-744426/6 | Lab Control Sample | Total/NA | Water | 350.1 | |
| 480-228898-9 MS | MW-1B | Total/NA | Water | 350.1 | |
| 480-228898-9 MSD | MW-1B | Total/NA | Water | 350.1 | |

### Analysis Batch: 744468

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228881-2 | MW-20A | Total/NA | Water | 310.2 | |
| 480-228881-3 | MW-20B | Total/NA | Water | 310.2 | |
| 480-228881-4 | MW-22 | Total/NA | Ground Water | 310.2 | |
| 480-228881-5 | FDUP-02-GW | Total/NA | Ground Water | 310.2 | |
| 480-228881-6 | EX-1 | Total/NA | Water | 310.2 | |
| 480-228898-1 | FDUP-01-GW | Total/NA | Water | 310.2 | |
| 480-228898-2 | MW-10 | Total/NA | Water | 310.2 | |

## General Chemistry (Continued)

### Analysis Batch: 744468 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-3 | MW-11 | Total/NA | Water | 310.2 | |
| 480-228898-4 | MW-18A | Total/NA | Ground Water | 310.2 | |
| 480-228898-5 | MW-18B | Total/NA | Ground Water | 310.2 | |
| 480-228898-6 | MW-18C | Total/NA | Ground Water | 310.2 | |
| 480-228898-7 | MW-19 | Total/NA | Ground Water | 310.2 | |
| 480-228898-8 | MW-1A | Total/NA | Ground Water | 310.2 | |
| 480-228898-9 | MW-1B | Total/NA | Water | 310.2 | |
| 480-228898-10 | MW-1C | Total/NA | Water | 310.2 | |
| 480-228898-11 | MW-21 | Total/NA | Ground Water | 310.2 | |
| 480-228898-12 | MW-6A | Total/NA | Water | 310.2 | |
| 480-228898-13 | MW-6B | Total/NA | Water | 310.2 | |
| 480-228898-14 | MW-7A | Total/NA | Water | 310.2 | |
| 480-228898-15 | MW-7M | Total/NA | Ground Water | 310.2 | |
| MB 480-744468/13 | Method Blank | Total/NA | Water | 310.2 | |
| MB 480-744468/18 | Method Blank | Total/NA | Water | 310.2 | |
| MB 480-744468/29 | Method Blank | Total/NA | Water | 310.2 | |
| MB 480-744468/47 | Method Blank | Total/NA | Water | 310.2 | |
| MB 480-744468/59 | Method Blank | Total/NA | Water | 310.2 | |
| MB 480-744468/81 | Method Blank | Total/NA | Water | 310.2 | |
| MB 480-744468/85 | Method Blank | Total/NA | Water | 310.2 | |
| LCS 480-744468/17 | Lab Control Sample | Total/NA | Water | 310.2 | |
| LCS 480-744468/28 | Lab Control Sample | Total/NA | Water | 310.2 | |
| LCS 480-744468/46 | Lab Control Sample | Total/NA | Water | 310.2 | |
| LCS 480-744468/58 | Lab Control Sample | Total/NA | Water | 310.2 | |
| LCS 480-744468/84 | Lab Control Sample | Total/NA | Water | 310.2 | |
| 480-228898-10 MS | MW-1C | Total/NA | Water | 310.2 | |
| 480-228898-10 MSD | MW-1C | Total/NA | Water | 310.2 | |

### Analysis Batch: 744609

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-1 | FDUP-01-GW | Total/NA | Water | SM 5310C | |
| 480-228898-2 | MW-10 | Total/NA | Water | SM 5310C | |
| 480-228898-3 | MW-11 | Total/NA | Water | SM 5310C | |
| 480-228898-4 | MW-18A | Total/NA | Ground Water | SM 5310C | |
| 480-228898-5 | MW-18B | Total/NA | Ground Water | SM 5310C | |
| 480-228898-6 | MW-18C | Total/NA | Ground Water | SM 5310C | |
| 480-228898-7 | MW-19 | Total/NA | Ground Water | SM 5310C | |
| 480-228898-8 | MW-1A | Total/NA | Ground Water | SM 5310C | |
| 480-228898-9 | MW-1B | Total/NA | Water | SM 5310C | |
| 480-228898-10 | MW-1C | Total/NA | Water | SM 5310C | |
| 480-228898-11 | MW-21 | Total/NA | Ground Water | SM 5310C | |
| 480-228898-12 | MW-6A | Total/NA | Water | SM 5310C | |
| 480-228898-13 | MW-6B | Total/NA | Water | SM 5310C | |
| 480-228898-14 | MW-7A | Total/NA | Water | SM 5310C | |
| 480-228898-15 | MW-7M | Total/NA | Ground Water | SM 5310C | |
| MB 480-744609/28 | Method Blank | Total/NA | Water | SM 5310C | |
| MB 480-744609/52 | Method Blank | Total/NA | Water | SM 5310C | |
| MB 480-744609/76 | Method Blank | Total/NA | Water | SM 5310C | |
| LCS 480-744609/29 | Lab Control Sample | Total/NA | Water | SM 5310C | |
| LCS 480-744609/53 | Lab Control Sample | Total/NA | Water | SM 5310C | |
| LCS 480-744609/77 | Lab Control Sample | Total/NA | Water | SM 5310C | |

## General Chemistry (Continued)

### Analysis Batch: 744609 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228898-1 MS | FDUP-01-GW | Total/NA | Water | SM 5310C | |
| 480-228898-3 MS | MW-11 | Total/NA | Water | SM 5310C | |
| 480-228898-5 MS | MW-18B | Total/NA | Ground Water | SM 5310C | |
| 480-228898-10 MS | MW-1C | Total/NA | Water | SM 5310C | |
| 480-228898-10 MSD | MW-1C | Total/NA | Water | SM 5310C | |
| 480-228898-14 MS | MW-7A | Total/NA | Water | SM 5310C | |
| 480-228898-2 DU | MW-10 | Total/NA | Water | SM 5310C | |
| 480-228898-4 DU | MW-18A | Total/NA | Ground Water | SM 5310C | |
| 480-228898-6 DU | MW-18C | Total/NA | Ground Water | SM 5310C | |
| 480-228898-15 DU | MW-7M | Total/NA | Ground Water | SM 5310C | |

### Analysis Batch: 744889

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-228881-2 | MW-20A | Total/NA | Water | D516-90, 02 | |
| 480-228881-3 | MW-20B | Total/NA | Water | D516-90, 02 | |
| 480-228881-4 | MW-22 | Total/NA | Ground Water | D516-90, 02 | |
| 480-228881-5 | FDUP-02-GW | Total/NA | Ground Water | D516-90, 02 | |
| 480-228881-6 | EX-1 | Total/NA | Water | D516-90, 02 | |
| 480-228898-1 | FDUP-01-GW | Total/NA | Water | D516-90, 02 | |
| 480-228898-2 | MW-10 | Total/NA | Water | D516-90, 02 | |
| 480-228898-3 | MW-11 | Total/NA | Water | D516-90, 02 | |
| 480-228898-4 | MW-18A | Total/NA | Ground Water | D516-90, 02 | |
| 480-228898-5 | MW-18B | Total/NA | Ground Water | D516-90, 02 | |
| 480-228898-6 | MW-18C | Total/NA | Ground Water | D516-90, 02 | |
| 480-228898-7 | MW-19 | Total/NA | Ground Water | D516-90, 02 | |
| 480-228898-8 | MW-1A | Total/NA | Ground Water | D516-90, 02 | |
| 480-228898-9 | MW-1B | Total/NA | Water | D516-90, 02 | |
| 480-228898-10 | MW-1C | Total/NA | Water | D516-90, 02 | |
| 480-228898-11 | MW-21 | Total/NA | Ground Water | D516-90, 02 | |
| 480-228898-12 | MW-6A | Total/NA | Water | D516-90, 02 | |
| 480-228898-13 | MW-6B | Total/NA | Water | D516-90, 02 | |
| 480-228898-14 | MW-7A | Total/NA | Water | D516-90, 02 | |
| 480-228898-15 | MW-7M | Total/NA | Ground Water | D516-90, 02 | |
| MB 480-744889/15 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-744889/31 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-744889/40 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-744889/48 | Method Blank | Total/NA | Water | D516-90, 02 | |
| LCS 480-744889/14 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| LCS 480-744889/30 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| LCS 480-744889/39 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| LCS 480-744889/47 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| 480-228898-2 MS | MW-10 | Total/NA | Water | D516-90, 02 | |
| 480-228898-2 MSD | MW-10 | Total/NA | Water | D516-90, 02 | |
| 480-228898-10 MS | MW-1C | Total/NA | Water | D516-90, 02 | |
| 480-228898-10 MSD | MW-1C | Total/NA | Water | D516-90, 02 | |

# Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: TRIP BLANK
**Date Collected: 04/20/25 00:00**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-1
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744382 | ATG | EET BUF | 04/24/25 18:53 |

## Client Sample ID: MW-20A
**Date Collected: 04/20/25 00:00**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-2
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744382 | ATG | EET BUF | 04/24/25 19:16 |
| Total/NA | Prep | 3510C | | | 744516 | LSC | EET BUF | 04/25/25 13:45 |
| Total/NA | Analysis | 8270D | | 1 | 744659 | JMM | EET BUF | 04/28/25 18:46 |
| Total/NA | Prep | 3005A | | | 744189 | EMO | EET BUF | 04/23/25 08:24 |
| Total/NA | Analysis | 6010C | | 1 | 744356 | BMB | EET BUF | 04/23/25 23:19 |
| Total/NA | Analysis | 310.2 | | 1 | 744468 | CG | EET BUF | 04/24/25 09:07 |
| Total/NA | Analysis | 350.1 | | 1 | 744308 | AM | EET BUF | 04/23/25 13:14 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 19:26 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 13:58 |
| Total/NA | Analysis | SM 5310C | | 1 | 744282 | AF | EET BUF | 04/22/25 18:12 |

## Client Sample ID: MW-20B
**Date Collected: 04/20/25 00:00**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-3
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744382 | ATG | EET BUF | 04/24/25 19:39 |
| Total/NA | Prep | 3510C | | | 744516 | LSC | EET BUF | 04/25/25 13:45 |
| Total/NA | Analysis | 8270D | | 1 | 744659 | JMM | EET BUF | 04/28/25 19:13 |
| Total/NA | Prep | 3005A | | | 744189 | EMO | EET BUF | 04/23/25 08:24 |
| Total/NA | Analysis | 6010C | | 1 | 744356 | BMB | EET BUF | 04/23/25 23:21 |
| Total/NA | Analysis | 310.2 | | 1 | 744468 | CG | EET BUF | 04/24/25 09:02 |
| Total/NA | Analysis | 350.1 | | 1 | 744308 | AM | EET BUF | 04/23/25 13:16 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 19:32 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 14:00 |
| Total/NA | Analysis | SM 5310C | | 1 | 744282 | AF | EET BUF | 04/22/25 19:08 |

## Client Sample ID: MW-22
**Date Collected: 04/20/25 14:25**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-4
**Matrix: Ground Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744382 | ATG | EET BUF | 04/24/25 20:02 |
| Total/NA | Prep | 3510C | | | 744516 | LSC | EET BUF | 04/25/25 13:45 |
| Total/NA | Analysis | 8270D | | 1 | 744659 | JMM | EET BUF | 04/28/25 19:40 |
| Total/NA | Prep | 3005A | | | 744189 | EMO | EET BUF | 04/23/25 08:24 |
| Total/NA | Analysis | 6010C | | 1 | 744356 | BMB | EET BUF | 04/23/25 23:28 |

# Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: MW-22
**Date Collected: 04/20/25 14:25**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-4
**Matrix: Ground Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 310.2 | | 1 | 744468 | CG | EET BUF | 04/24/25 09:02 |
| Total/NA | Analysis | 350.1 | | 1 | 744308 | AM | EET BUF | 04/23/25 13:18 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 19:36 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 14:00 |
| Total/NA | Analysis | SM 5310C | | 1 | 744282 | AF | EET BUF | 04/22/25 22:49 |

## Client Sample ID: FDUP-02-GW
**Date Collected: 04/20/25 00:00**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-5
**Matrix: Ground Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744382 | ATG | EET BUF | 04/24/25 20:25 |
| Total/NA | Prep | 3510C | | | 744516 | LSC | EET BUF | 04/25/25 13:45 |
| Total/NA | Analysis | 8270D | | 1 | 744659 | JMM | EET BUF | 04/28/25 20:07 |
| Total/NA | Prep | 3005A | | | 744189 | EMO | EET BUF | 04/23/25 08:24 |
| Total/NA | Analysis | 6010C | | 1 | 744356 | BMB | EET BUF | 04/23/25 23:30 |
| Total/NA | Analysis | 310.2 | | 1 | 744468 | CG | EET BUF | 04/24/25 09:02 |
| Total/NA | Analysis | 350.1 | | 1 | 744308 | AM | EET BUF | 04/23/25 13:18 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 19:38 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 14:00 |
| Total/NA | Analysis | SM 5310C | | 1 | 744282 | AF | EET BUF | 04/22/25 23:45 |

## Client Sample ID: EX-1
**Date Collected: 04/20/25 13:00**
**Date Received: 04/22/25 09:15**

## Lab Sample ID: 480-228881-6
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 2 | 744485 | ATG | EET BUF | 04/25/25 14:56 |
| Total/NA | Prep | 3510C | | | 744516 | LSC | EET BUF | 04/25/25 13:45 |
| Total/NA | Analysis | 8270D | | 10 | 744659 | JMM | EET BUF | 04/28/25 20:34 |
| Total/NA | Analysis | 8015D | | 10 | 638104 | P5AM | ELLE | 05/01/25 21:58 |
| Total/NA | Prep | 3510C | | | 635517 | XU9L | ELLE | 04/25/25 08:27 |
| Total/NA | Analysis | 8015D | | 1 | 635809 | A2VL | ELLE | 04/26/25 16:04 |
| Total/NA | Prep | 3005A | | | 744189 | EMO | EET BUF | 04/23/25 08:24 |
| Total/NA | Analysis | 6010C | | 1 | 744356 | BMB | EET BUF | 04/23/25 23:32 |
| Total/NA | Analysis | 310.2 | | 1 | 744468 | CG | EET BUF | 04/24/25 09:02 |
| Total/NA | Analysis | 350.1 | | 1 | 744308 | AM | EET BUF | 04/23/25 13:19 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 19:40 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 14:01 |
| Total/NA | Analysis | SM 5310C | | 1 | 744282 | AF | EET BUF | 04/23/25 05:18 |

# Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: FDUP-01-GW

**Lab Sample ID: 480-228898-1**
**Matrix: Water**
**Date Collected: 04/22/25 00:00**
**Date Received: 04/23/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 03:01 |
| Total/NA | Prep | 3510C | | | 744629 | JMP | EET BUF | 04/28/25 09:29 |
| Total/NA | Analysis | 8270D | | 1 | 744620 | JMM | EET BUF | 04/28/25 22:00 |
| Total/NA | Analysis | 8015D | | 1 | 636949 | WJ7F | ELLE | 04/30/25 03:09 |
| Total/NA | Prep | 3510C | | | 637207 | T9CY | ELLE | 04/29/25 15:58 |
| Total/NA | Analysis | 8015D | | 1 | 637874 | A2VL | ELLE | 05/01/25 05:31 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744477 | BMB | EET BUF | 04/24/25 17:23 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744512 | BMB | EET BUF | 04/25/25 11:32 |
| Total/NA | Analysis | 310.2 | | 1 | 744468 | CG | EET BUF | 04/24/25 09:04 |
| Total/NA | Analysis | 350.1 | | 1 | 744371 | AM | EET BUF | 04/23/25 17:07 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 19:42 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 14:02 |
| Total/NA | Analysis | SM 5310C | | 1 | 744609 | AF | EET BUF | 04/25/25 06:46 |

## Client Sample ID: MW-10

**Lab Sample ID: 480-228898-2**
**Matrix: Water**
**Date Collected: 04/21/25 11:00**
**Date Received: 04/23/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 03:24 |
| Total/NA | Prep | 3510C | | | 744629 | JMP | EET BUF | 04/28/25 09:29 |
| Total/NA | Analysis | 8270D | | 1 | 744620 | JMM | EET BUF | 04/28/25 22:28 |
| Total/NA | Analysis | 8015D | | 1 | 638104 | P5AM | ELLE | 05/01/25 21:08 |
| Total/NA | Prep | 3510C | | | 635517 | XU9L | ELLE | 04/25/25 08:27 |
| Total/NA | Analysis | 8015D | | 1 | 635809 | A2VL | ELLE | 04/26/25 16:26 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744477 | BMB | EET BUF | 04/24/25 17:25 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744512 | BMB | EET BUF | 04/25/25 11:34 |
| Total/NA | Analysis | 310.2 | | 1 | 744468 | CG | EET BUF | 04/24/25 09:05 |
| Total/NA | Analysis | 350.1 | | 1 | 744371 | AM | EET BUF | 04/23/25 17:08 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 19:44 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 14:06 |
| Total/NA | Analysis | SM 5310C | | 1 | 744609 | AF | EET BUF | 04/25/25 07:43 |

## Client Sample ID: MW-11

**Lab Sample ID: 480-228898-3**
**Matrix: Water**
**Date Collected: 04/21/25 10:10**
**Date Received: 04/23/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 03:47 |

## Client Sample ID: MW-11
**Date Collected: 04/21/25 10:10**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-3
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3510C | | | 744629 | JMP | EET BUF | 04/28/25 09:29 |
| Total/NA | Analysis | 8270D | | 1 | 744620 | JMM | EET BUF | 04/28/25 22:55 |
| Total/NA | Analysis | 8015D | | 1 | 638104 | P5AM | ELLE | 05/01/25 21:33 |
| Total/NA | Prep | 3510C | | | 635517 | XU9L | ELLE | 04/25/25 08:27 |
| Total/NA | Analysis | 8015D | | 1 | 635809 | A2VL | ELLE | 04/26/25 16:49 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744477 | BMB | EET BUF | 04/24/25 17:27 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744512 | BMB | EET BUF | 04/25/25 11:36 |
| Total/NA | Analysis | 310.2 | | 1 | 744468 | CG | EET BUF | 04/24/25 09:05 |
| Total/NA | Analysis | 350.1 | | 1 | 744371 | AM | EET BUF | 04/23/25 17:09 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 19:54 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 14:06 |
| Total/NA | Analysis | SM 5310C | | 1 | 744609 | AF | EET BUF | 04/25/25 13:27 |

## Client Sample ID: MW-18A
**Date Collected: 04/21/25 14:30**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-4
**Matrix: Ground Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 04:11 |
| Total/NA | Prep | 3510C | | | 744629 | JMP | EET BUF | 04/28/25 09:29 |
| Total/NA | Analysis | 8270D | | 1 | 744620 | JMM | EET BUF | 04/28/25 23:23 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744477 | BMB | EET BUF | 04/24/25 17:29 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744512 | BMB | EET BUF | 04/25/25 11:37 |
| Total/NA | Analysis | 310.2 | | 5 | 744468 | CG | EET BUF | 04/24/25 11:31 |
| Total/NA | Analysis | 350.1 | | 1 | 744371 | AM | EET BUF | 04/23/25 17:09 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 20:00 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 14:06 |
| Total/NA | Analysis | SM 5310C | | 1 | 744609 | AF | EET BUF | 04/25/25 14:24 |

## Client Sample ID: MW-18B
**Date Collected: 04/21/25 12:15**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-5
**Matrix: Ground Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 04:34 |
| Total/NA | Prep | 3510C | | | 744629 | JMP | EET BUF | 04/28/25 09:29 |
| Total/NA | Analysis | 8270D | | 1 | 744620 | JMM | EET BUF | 04/28/25 23:50 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744477 | BMB | EET BUF | 04/24/25 17:36 |

# Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: MW-18B
**Date Collected: 04/21/25 12:15**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-5
**Matrix: Ground Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744512 | BMB | EET BUF | 04/25/25 11:39 |
| Total/NA | Analysis | 310.2 | | 5 | 744468 | CG | EET BUF | 04/24/25 09:48 |
| Total/NA | Analysis | 350.1 | | 1 | 744371 | AM | EET BUF | 04/23/25 17:11 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 20:02 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 14:07 |
| Total/NA | Analysis | SM 5310C | | 1 | 744609 | AF | EET BUF | 04/25/25 18:14 |

## Client Sample ID: MW-18C
**Date Collected: 04/21/25 12:50**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-6
**Matrix: Ground Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 04:57 |
| Total/NA | Prep | 3510C | | | 744629 | JMP | EET BUF | 04/28/25 09:29 |
| Total/NA | Analysis | 8270D | | 1 | 744620 | JMM | EET BUF | 04/29/25 00:18 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744477 | BMB | EET BUF | 04/24/25 17:38 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744512 | BMB | EET BUF | 04/25/25 11:41 |
| Total/NA | Analysis | 310.2 | | 1 | 744468 | CG | EET BUF | 04/24/25 09:15 |
| Total/NA | Analysis | 350.1 | | 1 | 744371 | AM | EET BUF | 04/23/25 17:13 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 20:04 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 14:09 |
| Total/NA | Analysis | SM 5310C | | 1 | 744609 | AF | EET BUF | 04/25/25 19:11 |

## Client Sample ID: MW-19
**Date Collected: 04/22/25 12:40**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-7
**Matrix: Ground Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 05:20 |
| Total/NA | Prep | 3510C | | | 744629 | JMP | EET BUF | 04/28/25 09:29 |
| Total/NA | Analysis | 8270D | | 1 | 744620 | JMM | EET BUF | 04/29/25 00:46 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744477 | BMB | EET BUF | 04/24/25 17:40 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744512 | BMB | EET BUF | 04/25/25 11:43 |
| Total/NA | Analysis | 310.2 | | 1 | 744468 | CG | EET BUF | 04/24/25 09:08 |
| Total/NA | Analysis | 350.1 | | 1 | 744371 | AM | EET BUF | 04/23/25 17:14 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 20:06 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 13:48 |
| Total/NA | Analysis | SM 5310C | | 1 | 744609 | AF | EET BUF | 04/25/25 20:08 |

# Lab Chronicle

Client: Geosyntec Consultants Inc
Job ID: 480-228881-1
Project/Site: Cortese Landfill - Semiannual Groundwater
SDG: 228881

## Client Sample ID: MW-1A
**Date Collected: 04/22/25 11:05**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-8
**Matrix: Ground Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 05:44 |
| Total/NA | Prep | 3510C | | | 744629 | JMP | EET BUF | 04/28/25 09:29 |
| Total/NA | Analysis | 8270D | | 1 | 744620 | JMM | EET BUF | 04/29/25 01:13 |
| Total/NA | Analysis | 8015D | | 1 | 636949 | WJ7F | ELLE | 04/30/25 03:35 |
| Total/NA | Prep | 3510C | | | 637207 | T9CY | ELLE | 04/29/25 15:58 |
| Total/NA | Analysis | 8015D | | 1 | 637874 | A2VL | ELLE | 05/01/25 05:54 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744477 | BMB | EET BUF | 04/24/25 17:42 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744512 | BMB | EET BUF | 04/25/25 11:59 |
| Total/NA | Analysis | 310.2 | | 1 | 744468 | CG | EET BUF | 04/24/25 09:08 |
| Total/NA | Analysis | 350.1 | | 1 | 744371 | AM | EET BUF | 04/23/25 17:16 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 20:08 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 13:48 |
| Total/NA | Analysis | SM 5310C | | 1 | 744609 | AF | EET BUF | 04/25/25 20:37 |

## Client Sample ID: MW-1B
**Date Collected: 04/22/25 11:00**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-9
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 06:07 |
| Total/NA | Prep | 3510C | | | 744629 | JMP | EET BUF | 04/28/25 09:29 |
| Total/NA | Analysis | 8270D | | 1 | 744620 | JMM | EET BUF | 04/29/25 01:41 |
| Total/NA | Analysis | 8015D | | 1 | 636949 | WJ7F | ELLE | 04/30/25 04:00 |
| Total/NA | Prep | 3510C | | | 637207 | T9CY | ELLE | 04/29/25 15:58 |
| Total/NA | Analysis | 8015D | | 1 | 637874 | A2VL | ELLE | 05/01/25 06:17 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744477 | BMB | EET BUF | 04/24/25 17:44 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744512 | BMB | EET BUF | 04/25/25 12:01 |
| Total/NA | Analysis | 310.2 | | 5 | 744468 | CG | EET BUF | 04/24/25 09:49 |
| Total/NA | Analysis | 350.1 | | 5 | 744426 | AM | EET BUF | 04/24/25 14:12 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 20:14 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 13:49 |
| Total/NA | Analysis | SM 5310C | | 1 | 744609 | AF | EET BUF | 04/25/25 21:05 |

## Client Sample ID: MW-1C
**Date Collected: 04/22/25 11:30**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-10
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 06:31 |

# Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Client Sample ID: MW-1C
**Date Collected: 04/22/25 11:30**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-10
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3510C | | | 744629 | JMP | EET BUF | 04/28/25 09:29 |
| Total/NA | Analysis | 8270D | | 1 | 744620 | JMM | EET BUF | 04/28/25 19:43 |
| Total/NA | Analysis | 8015D | | 1 | 636949 | WJ7F | ELLE | 04/29/25 19:56 |
| Total/NA | Prep | 3510C | | | 637207 | T9CY | ELLE | 04/29/25 15:58 |
| Total/NA | Analysis | 8015D | | 1 | 637874 | A2VL | ELLE | 04/30/25 21:51 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744477 | BMB | EET BUF | 04/24/25 17:46 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744512 | BMB | EET BUF | 04/25/25 12:03 |
| Total/NA | Analysis | 310.2 | | 5 | 744468 | CG | EET BUF | 04/24/25 09:49 |
| Total/NA | Analysis | 350.1 | | 1 | 744371 | AM | EET BUF | 04/23/25 17:21 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 20:37 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 13:53 |
| Total/NA | Analysis | SM 5310C | | 1 | 744609 | AF | EET BUF | 04/25/25 02:01 |

## Client Sample ID: MW-21
**Date Collected: 04/21/25 12:30**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-11
**Matrix: Ground Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 06:54 |
| Total/NA | Prep | 3510C | | | 744629 | JMP | EET BUF | 04/28/25 09:29 |
| Total/NA | Analysis | 8270D | | 1 | 744620 | JMM | EET BUF | 04/29/25 02:09 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744477 | BMB | EET BUF | 04/24/25 18:01 |
| Total/NA | Analysis | 310.2 | | 1 | 744468 | CG | EET BUF | 04/24/25 09:09 |
| Total/NA | Analysis | 350.1 | | 5 | 744426 | AM | EET BUF | 04/24/25 14:15 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 20:18 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 13:51 |
| Total/NA | Analysis | SM 5310C | | 1 | 744609 | AF | EET BUF | 04/25/25 21:34 |

## Client Sample ID: MW-6A
**Date Collected: 04/21/25 14:05**
**Date Received: 04/23/25 09:00**

## Lab Sample ID: 480-228898-12
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 07:18 |
| Total/NA | Prep | 3510C | | | 744629 | JMP | EET BUF | 04/28/25 09:29 |
| Total/NA | Analysis | 8270D | | 1 | 744620 | JMM | EET BUF | 04/29/25 02:37 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744477 | BMB | EET BUF | 04/24/25 18:03 |
| Total/NA | Analysis | 310.2 | | 5 | 744468 | CG | EET BUF | 04/24/25 09:50 |
| Total/NA | Analysis | 350.1 | | 1 | 744371 | AM | EET BUF | 04/23/25 17:18 |

## Client Sample ID: MW-6A
**Lab Sample ID: 480-228898-12**
**Date Collected: 04/21/25 14:05**
**Matrix: Water**
**Date Received: 04/23/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 20:20 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 13:51 |
| Total/NA | Analysis | SM 5310C | | 1 | 744609 | AF | EET BUF | 04/25/25 22:02 |

## Client Sample ID: MW-6B
**Lab Sample ID: 480-228898-13**
**Date Collected: 04/21/25 13:10**
**Matrix: Water**
**Date Received: 04/23/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 07:41 |
| Total/NA | Prep | 3510C | | | 744629 | JMP | EET BUF | 04/28/25 09:29 |
| Total/NA | Analysis | 8270D | | 1 | 744662 | JMM | EET BUF | 04/29/25 05:24 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744477 | BMB | EET BUF | 04/24/25 18:05 |
| Total/NA | Analysis | 310.2 | | 1 | 744468 | CG | EET BUF | 04/24/25 09:10 |
| Total/NA | Analysis | 350.1 | | 1 | 744371 | AM | EET BUF | 04/23/25 17:24 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 20:22 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 13:54 |
| Total/NA | Analysis | SM 5310C | | 1 | 744609 | AF | EET BUF | 04/25/25 22:30 |

## Client Sample ID: MW-7A
**Lab Sample ID: 480-228898-14**
**Date Collected: 04/21/25 11:15**
**Matrix: Water**
**Date Received: 04/23/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 08:04 |
| Total/NA | Prep | 3510C | | | 744629 | JMP | EET BUF | 04/28/25 09:29 |
| Total/NA | Analysis | 8270D | | 1 | 744662 | JMM | EET BUF | 04/29/25 05:52 |
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744477 | BMB | EET BUF | 04/24/25 18:07 |
| Total/NA | Analysis | 310.2 | | 1 | 744468 | CG | EET BUF | 04/24/25 09:10 |
| Total/NA | Analysis | 350.1 | | 1 | 744371 | AM | EET BUF | 04/23/25 17:25 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 20:24 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 14:10 |
| Total/NA | Analysis | SM 5310C | | 1 | 744609 | AF | EET BUF | 04/26/25 00:54 |

## Client Sample ID: MW-7M
**Lab Sample ID: 480-228898-15**
**Date Collected: 04/21/25 09:50**
**Matrix: Ground Water**
**Date Received: 04/23/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 08:27 |
| Total/NA | Prep | 3510C | | | 744629 | JMP | EET BUF | 04/28/25 09:29 |
| Total/NA | Analysis | 8270D | | 1 | 744735 | JMM | EET BUF | 04/29/25 12:50 |

# Lab Chronicle

Client: Geosyntec Consultants Inc
Job ID: 480-228881-1
Project/Site: Cortese Landfill - Semiannual Groundwater
SDG: 228881

## Client Sample ID: MW-7M
**Lab Sample ID: 480-228898-15**
**Date Collected: 04/21/25 09:50**
**Matrix: Ground Water**
**Date Received: 04/23/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3005A | | | 744307 | EMO | EET BUF | 04/24/25 08:55 |
| Total/NA | Analysis | 6010C | | 1 | 744477 | BMB | EET BUF | 04/24/25 18:09 |
| Total/NA | Analysis | 310.2 | | 1 | 744468 | CG | EET BUF | 04/24/25 09:10 |
| Total/NA | Analysis | 350.1 | | 1 | 744371 | AM | EET BUF | 04/23/25 17:26 |
| Total/NA | Analysis | 353.2 | | 1 | 744372 | AM | EET BUF | 04/23/25 20:26 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 744889 | CG | EET BUF | 04/30/25 14:10 |
| Total/NA | Analysis | SM 5310C | | 1 | 744609 | AF | EET BUF | 04/26/25 01:51 |

## Client Sample ID: TRIP BLANK 2
**Lab Sample ID: 480-228898-16**
**Date Collected: 04/21/25 00:00**
**Matrix: Distilled Water**
**Date Received: 04/23/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 08:50 |

## Client Sample ID: TRIP BLANK 3
**Lab Sample ID: 480-228898-17**
**Date Collected: 04/22/25 00:00**
**Matrix: Ground Water**
**Date Received: 04/23/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 744430 | ATG | EET BUF | 04/25/25 09:14 |

**Laboratory References:**

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

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

## Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| New York | NELAP | 10026 | 03-31-26 |

## Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| A2LA | Dept. of Defense ELAP | 0001.01 | 11-30-26 |
| A2LA | Dept. of Energy | 0001.01 | 11-30-26 |
| A2LA | ISO/IEC 17025 | 0001.01 | 11-30-26 |
| Alabama | State | 43200 | 01-31-26 |
| Alaska | State | PA00009 | 06-30-25 |
| Alaska (UST) | State | 17-027 | 12-30-26 |
| Arizona | State | AZ0780 | 03-12-26 |
| Arkansas DEQ | State | 88-00660 | 08-09-25 |
| California | State | 2792 | 01-31-26 |
| Colorado | State | PA00009 | 06-30-25 |
| Connecticut | State | PH-0746 | 06-30-25 |
| DE Haz. Subst. Cleanup Act (HSCA) | State | 019-006 (PA cert) | 01-31-26 |
| Delaware (DW) | State | N/A | 01-31-26 |
| Florida | NELAP | E87997 | 06-30-25 |
| Georgia (DW) | State | C048 | 01-31-26 |
| Illinois | NELAP | 200027 | 01-31-26 |
| Iowa | State | 361 | 03-01-26 |
| Kansas | NELAP | E-10151 | 10-31-25 |
| Kentucky (DW) | State | KY90088 | 12-31-25 |
| Kentucky (UST) | State | 0001.01 | 11-30-26 |
| Kentucky (WW) | State | KY90088 | 12-31-25 |
| Louisiana (All) | NELAP | 02055 | 06-30-25 |
| Maine | State | 2019012 | 03-12-27 |
| Maryland | State | 100 | 06-30-25 |
| Massachusetts | State | M-PA009 | 06-30-25 |
| Michigan | State | 9930 | 01-31-26 |
| Minnesota | NELAP | 042-999-487 | 12-31-25 |
| Mississippi | State | 023 | 01-31-26 |
| Missouri | State | 450 | 01-31-28 |
| Montana (DW) | State | 0098 | 01-01-26 |
| Nebraska | State | NE-OS-32-17 | 01-31-26 |
| New Hampshire | NELAP | 2730 | 01-10-26 |
| New Jersey | NELAP | PA011 | 06-30-25 |
| New York | NELAP | 10670 | 04-01-26 |
| North Carolina (DW) | State | 42705 | 07-31-25 |
| North Carolina (WW/SW) | State | 521 | 12-31-25 |
| North Dakota | State | R-205 | 01-31-24 * |
| Oklahoma | NELAP | 9804 | 08-31-25 |
| Oregon | NELAP | PA200001 | 09-11-25 |
| Pennsylvania | NELAP | 36-00037 | 05-04-25 |
| Quebec Ministry of Environment and Fight against Climate Change | PALA | 507 | 09-16-29 |
| Rhode Island | State | LAO00338 | 12-30-25 |
| South Carolina | State | 89002 | 01-31-26 |
| Tennessee | State | 02838 | 01-31-26 |

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

# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Job ID: 480-228881-1
Project/Site: Cortese Landfill - Semiannual Groundwater
SDG: 228881

## Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Texas | NELAP | T104704194-23-46 | 08-31-25 |
| USDA | US Federal Programs | 525-22-298-19481 | 10-25-25 |
| Vermont | State | VT - 36037 | 10-28-25 |
| Virginia | NELAP | 460182 | 06-14-25 |
| Washington | State | C457 | 04-11-25 * |
| West Virginia (DW) | State | 9906 C | 03-31-26 |
| West Virginia DEP | State | 055 | 07-31-25 |
| Wyoming | State | 8TMS-L | 01-31-26 |
| Wyoming (UST) | A2LA | 0001.01 | 11-30-26 |

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

# Method Summary

Client: Geosyntec Consultants Inc
Job ID: 480-228881-1
Project/Site: Cortese Landfill - Semiannual Groundwater
SDG: 228881

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | EET BUF |
| 8270D | Semivolatile Organic Compounds (GC/MS) | SW846 | EET BUF |
| 8015D | Gasoline Range Organics (GRO) (GC) | SW846 | ELLE |
| 8015D | Diesel Range Organics (DRO) (GC) | SW846 | ELLE |
| 6010C | Metals (ICP) | SW846 | EET BUF |
| 310.2 | Alkalinity | EPA | EET BUF |
| 350.1 | Nitrogen, Ammonia | EPA | EET BUF |
| 353.2 | Nitrogen, Nitrate-Nitrite | EPA | EET BUF |
| D516-90, 02 | Sulfate | ASTM | EET BUF |
| SM 5310C | TOC | SM | EET BUF |
| 3005A | Preparation, Total Metals | SW846 | EET BUF |
| 3510C | Liquid-Liquid Extraction (Separatory Funnel) | SW846 | EET BUF |
| 3510C | Liquid-Liquid Extraction (Separatory Funnel) | SW846 | ELLE |
| 5030B | Purge and Trap | SW846 | ELLE |
| 5030C | Purge and Trap | SW846 | EET BUF |

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

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

**Laboratory References:**

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

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Semiannual Groundwater

Job ID: 480-228881-1
SDG: 228881

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 480-228881-1 | TRIP BLANK | Water | 04/20/25 00:00 | 04/22/25 09:15 |
| 480-228881-2 | MW-20A | Water | 04/20/25 00:00 | 04/22/25 09:15 |
| 480-228881-3 | MW-20B | Water | 04/20/25 00:00 | 04/22/25 09:15 |
| 480-228881-4 | MW-22 | Ground Water | 04/20/25 14:25 | 04/22/25 09:15 |
| 480-228881-5 | FDUP-02-GW | Ground Water | 04/20/25 00:00 | 04/22/25 09:15 |
| 480-228881-6 | EX-1 | Water | 04/20/25 13:00 | 04/22/25 09:15 |
| 480-228898-1 | FDUP-01-GW | Water | 04/22/25 00:00 | 04/23/25 09:00 |
| 480-228898-2 | MW-10 | Water | 04/21/25 11:00 | 04/23/25 09:00 |
| 480-228898-3 | MW-11 | Water | 04/21/25 10:10 | 04/23/25 09:00 |
| 480-228898-4 | MW-18A | Ground Water | 04/21/25 14:30 | 04/23/25 09:00 |
| 480-228898-5 | MW-18B | Ground Water | 04/21/25 12:15 | 04/23/25 09:00 |
| 480-228898-6 | MW-18C | Ground Water | 04/21/25 12:50 | 04/23/25 09:00 |
| 480-228898-7 | MW-19 | Ground Water | 04/22/25 12:40 | 04/23/25 09:00 |
| 480-228898-8 | MW-1A | Ground Water | 04/22/25 11:05 | 04/23/25 09:00 |
| 480-228898-9 | MW-1B | Water | 04/22/25 11:00 | 04/23/25 09:00 |
| 480-228898-10 | MW-1C | Water | 04/22/25 11:30 | 04/23/25 09:00 |
| 480-228898-11 | MW-21 | Ground Water | 04/21/25 12:30 | 04/23/25 09:00 |
| 480-228898-12 | MW-6A | Water | 04/21/25 14:05 | 04/23/25 09:00 |
| 480-228898-13 | MW-6B | Water | 04/21/25 13:10 | 04/23/25 09:00 |
| 480-228898-14 | MW-7A | Water | 04/21/25 11:15 | 04/23/25 09:00 |
| 480-228898-15 | MW-7M | Ground Water | 04/21/25 09:50 | 04/23/25 09:00 |
| 480-228898-16 | TRIP BLANK 2 | Distilled Water | 04/21/25 00:00 | 04/23/25 09:00 |
| 480-228898-17 | TRIP BLANK 3 | Ground Water | 04/22/25 00:00 | 04/23/25 09:00 |

# Quantitation Limit Exceptions Summary

Client: Geosyntec Consultants Inc
Job ID: 480-228881-1
Project/Site: Cortese Landfill - Semiannual Groundwater
SDG: 228881

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

| Method | Analyte | Matrix | Prep Type | Unit | Client RL | Lab PQL |
|---|---|---|---|---|---|---|
| 8260C | 2-Butanone (MEK) | Distilled Water | Total/NA | ug/L | 5.0 | 10 |
| 8260C | 2-Butanone (MEK) | Ground Water | Total/NA | ug/L | 5.0 | 10 |
| 8260C | 2-Butanone (MEK) | Water | Total/NA | ug/L | 5.0 | 10 |
| 8270D | 1,2,4-Trichlorobenzene | Ground Water | Total/NA | ug/L | 1.9 | 10 |
| 8270D | 1,2,4-Trichlorobenzene | Water | Total/NA | ug/L | 1.9 | 10 |
| 8270D | 1,2-Dichlorobenzene | Ground Water | Total/NA | ug/L | 1.9 | 10 |
| 8270D | 1,2-Dichlorobenzene | Water | Total/NA | ug/L | 1.9 | 10 |
| 8270D | 1,3-Dichlorobenzene | Ground Water | Total/NA | ug/L | 1.9 | 10 |
| 8270D | 1,3-Dichlorobenzene | Water | Total/NA | ug/L | 1.9 | 10 |
| 8270D | 1,4-Dichlorobenzene | Ground Water | Total/NA | ug/L | 4.4 | 10 |
| 8270D | 1,4-Dichlorobenzene | Water | Total/NA | ug/L | 4.4 | 10 |
| 8270D | 2,4,6-Trichlorophenol | Ground Water | Total/NA | ug/L | 3.1 | 5 |
| 8270D | 2,4,6-Trichlorophenol | Water | Total/NA | ug/L | 3.1 | 5 |
| 8270D | 2,4-Dichlorophenol | Ground Water | Total/NA | ug/L | 2.8 | 5 |
| 8270D | 2,4-Dichlorophenol | Water | Total/NA | ug/L | 2.8 | 5 |
| 8270D | 2,4-Dimethylphenol | Ground Water | Total/NA | ug/L | 2.8 | 5 |
| 8270D | 2,4-Dimethylphenol | Water | Total/NA | ug/L | 2.8 | 5 |
| 8270D | 2,6-Dinitrotoluene | Ground Water | Total/NA | ug/L | 1.9 | 5 |
| 8270D | 2,6-Dinitrotoluene | Water | Total/NA | ug/L | 1.9 | 5 |
| 8270D | 2-Chloronaphthalene | Ground Water | Total/NA | ug/L | 1.9 | 5 |
| 8270D | 2-Chloronaphthalene | Water | Total/NA | ug/L | 1.9 | 5 |
| 8270D | 2-Chlorophenol | Ground Water | Total/NA | ug/L | 3.3 | 5 |
| 8270D | 2-Chlorophenol | Water | Total/NA | ug/L | 3.3 | 5 |
| 8270D | 2-Nitrophenol | Ground Water | Total/NA | ug/L | 3.6 | 5 |
| 8270D | 2-Nitrophenol | Water | Total/NA | ug/L | 3.6 | 5 |
| 8270D | 4-Bromophenyl phenyl ether | Ground Water | Total/NA | ug/L | 1.8 | 5 |
| 8270D | 4-Bromophenyl phenyl ether | Water | Total/NA | ug/L | 1.8 | 5 |
| 8270D | 4-Chloro-3-methylphenol | Ground Water | Total/NA | ug/L | 3.0 | 5 |
| 8270D | 4-Chloro-3-methylphenol | Water | Total/NA | ug/L | 3.0 | 5 |
| 8270D | 4-Chloroaniline | Ground Water | Total/NA | ug/L | 2.0 | 5 |
| 8270D | 4-Chloroaniline | Water | Total/NA | ug/L | 2.0 | 5 |
| 8270D | 4-Chlorophenyl phenyl ether | Ground Water | Total/NA | ug/L | 4.3 | 5 |
| 8270D | 4-Chlorophenyl phenyl ether | Water | Total/NA | ug/L | 4.3 | 5 |
| 8270D | 4-Nitrophenol | Ground Water | Total/NA | ug/L | 3.0 | 10 |
| 8270D | 4-Nitrophenol | Water | Total/NA | ug/L | 3.0 | 10 |
| 8270D | Acenaphthene | Ground Water | Total/NA | ug/L | 1.8 | 5 |
| 8270D | Acenaphthene | Water | Total/NA | ug/L | 1.8 | 5 |
| 8270D | Acenaphthylene | Ground Water | Total/NA | ug/L | 3.5 | 5 |
| 8270D | Acenaphthylene | Water | Total/NA | ug/L | 3.5 | 5 |
| 8270D | Anthracene | Ground Water | Total/NA | ug/L | 1.8 | 5 |
| 8270D | Anthracene | Water | Total/NA | ug/L | 1.8 | 5 |
| 8270D | Benzo(a)pyrene | Ground Water | Total/NA | ug/L | 2.6 | 5 |
| 8270D | Benzo(a)pyrene | Water | Total/NA | ug/L | 2.6 | 5 |
| 8270D | Benzo(ghi)perylene | Ground Water | Total/NA | ug/L | 4.1 | 5 |
| 8270D | Benzo(ghi)perylene | Water | Total/NA | ug/L | 4.1 | 5 |
| 8270D | Benzo(k)fluoranthene | Ground Water | Total/NA | ug/L | 2.5 | 5 |
| 8270D | Benzo(k)fluoranthene | Water | Total/NA | ug/L | 2.5 | 5 |
| 8270D | Benzoic acid | Ground Water | Total/NA | ug/L | 100 | 150 |
| 8270D | Benzoic acid | Water | Total/NA | ug/L | 100 | 150 |

# Quantitation Limit Exceptions Summary

Client: Geosyntec Consultants Inc
Job ID: 480-228881-1
Project/Site: Cortese Landfill - Semiannual Groundwater
SDG: 228881

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

| Method | Analyte | Matrix | Prep Type | Unit | Client RL | Lab PQL |
|---|---|---|---|---|---|---|
| 8270D | Benzyl alcohol | Ground Water | Total/NA | ug/L | 7.0 | 20 |
| 8270D | Benzyl alcohol | Water | Total/NA | ug/L | 7.0 | 20 |
| 8270D | Chrysene | Ground Water | Total/NA | ug/L | 2.5 | 5 |
| 8270D | Chrysene | Water | Total/NA | ug/L | 2.5 | 5 |
| 8270D | Fluoranthene | Ground Water | Total/NA | ug/L | 2.2 | 5 |
| 8270D | Fluoranthene | Water | Total/NA | ug/L | 2.2 | 5 |
| 8270D | Fluorene | Ground Water | Total/NA | ug/L | 1.9 | 5 |
| 8270D | Fluorene | Water | Total/NA | ug/L | 1.9 | 5 |
| 8270D | Hexachlorobenzene | Ground Water | Total/NA | ug/L | 2.2 | 5 |
| 8270D | Hexachlorobenzene | Water | Total/NA | ug/L | 2.2 | 5 |
| 8270D | Hexachlorobutadiene | Ground Water | Total/NA | ug/L | 2.6 | 5 |
| 8270D | Hexachlorobutadiene | Water | Total/NA | ug/L | 2.6 | 5 |
| 8270D | Hexachloroethane | Ground Water | Total/NA | ug/L | 2.8 | 5 |
| 8270D | Hexachloroethane | Water | Total/NA | ug/L | 2.8 | 5 |
| 8270D | Indeno(1,2,3-cd)pyrene | Ground Water | Total/NA | ug/L | 4.8 | 5 |
| 8270D | Indeno(1,2,3-cd)pyrene | Water | Total/NA | ug/L | 4.8 | 5 |
| 8270D | Isophorone | Ground Water | Total/NA | ug/L | 2.2 | 5 |
| 8270D | Isophorone | Water | Total/NA | ug/L | 2.2 | 5 |
| 8270D | Naphthalene | Ground Water | Total/NA | ug/L | 1.6 | 5 |
| 8270D | Naphthalene | Water | Total/NA | ug/L | 1.6 | 5 |
| 8270D | Nitrobenzene | Ground Water | Total/NA | ug/L | 2.0 | 5 |
| 8270D | Nitrobenzene | Water | Total/NA | ug/L | 2.0 | 5 |
| 8270D | N-Nitrosodiphenylamine | Ground Water | Total/NA | ug/L | 1.9 | 5 |
| 8270D | N-Nitrosodiphenylamine | Water | Total/NA | ug/L | 1.9 | 5 |
| 8270D | Pentachlorophenol | Ground Water | Total/NA | ug/L | 5.1 | 10 |
| 8270D | Pentachlorophenol | Water | Total/NA | ug/L | 5.1 | 10 |
| 8270D | Phenol | Ground Water | Total/NA | ug/L | 2.5 | 5 |
| 8270D | Phenol | Water | Total/NA | ug/L | 2.5 | 5 |
| 8270D | Pyrene | Ground Water | Total/NA | ug/L | 1.9 | 5 |
| 8270D | Pyrene | Water | Total/NA | ug/L | 1.9 | 5 |
| 6010C | Arsenic | Ground Water | Total/NA | mg/L | 0.010 | 0.015 |
| 6010C | Arsenic | Water | Total/NA | mg/L | 0.010 | 0.015 |
| 310.2 | Alkalinity, Total | Ground Water | Total/NA | mg/L | 5.0 | 10 |
| 310.2 | Alkalinity, Total | Water | Total/NA | mg/L | 5.0 | 10 |

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

# Chain of Custody Record

eurofins

| Client Information | Sampler: Al Pleva | Lab PM: VanDette, Ryan T | Carrier Tracking No(s): | COC No: 480-204418-22776.1 |
|---|---|---|---|---|
| Client Contact: Adam Gray | Phone: 908 864 0486 | E-Mail: Ryan.VanDette@et.eurofinsus.com | State of Origin: | Page: Page 1 of 3 |
| Company: Geosyntec Consultants Inc | PWSID: | | | Job #: |
| Address: 10211 Wincopin Circle 4th Floor | Due Date Requested: | | | |
| City: Columbia | TAT Requested (days): | | | |
| State, Zip: MD, 21044 | Compliance Project: Δ Yes Δ No | | | |
| Phone: 850-483-5104(Tel) | PO #: 125001103 | | | |
| Email: agray@geosyntec.com | WO #: WO-MR0562S-7666 | | | |
| Project Name: Cortese Landfill Site/NY06 Event Desc: Semi-Annual GW - Sprin | Project #: 48002953 | | | |
| Site: New York | SSOW#: | | | |

**Analysis Requested**

Preservation Codes: A - HCL; N - None; D - HNO3; S - H2SO4

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260C - Volatiles | 8270D - Semi-volatiles | 6010C - ICP Metals | D516 - Sulfate | 310.2 - Alkalinity, Total | 5310C - Organic Carbon, Total (TOC) | 350.1, 353.2_Pres | 8015D_DRO - DRO | 8015D_GRO - GRO | | | | | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | A | N | D | N | N | S | S | N | A | | | | | | |
| TRIP BLANK | 4/20/25 | — | — | Water | N | N | | | | | | | | | | | | | | 3 | |
| TRIP BLANK 2 | | | | Water | | | | | | | | | | | | | | | | | |
| TRIP BLANK 3 | | | | Water | | | | | | | | | | | | | | | | | |
| MW-6A | 4/20/25 | 1015 | G | Water | N | N | X | X | X | X | X | X | X | — | — | | | | | 12 | |
| MW-6B | 4/20/25 | 1050 | G | Water | N | N | X | X | X | X | X | X | X | — | — | | | | | 12 | |
| MW-7A | | | | Water | | | | | | | | | | | | | | | | | |
| MW-7B | | | | Water | | | | | | | | | | | | | | | | | |
| MW-7M | | | | Water | | | | | | | | | | | | | | | | | |
| MW-18A | | | | Water | | | | | | | | | | | | | | | | | |
| MW-18B | | | | Water | | | | | | | | | | | | | | | | | |
| MW-18C | | | | Water | | | | | | | | | | | | | | | | | |

Other:

480-228881 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

| | | | | | | |
|---|---|---|---|---|---|---|
| Empty Kit Relinquished by: | | Date: | Time: | Method of Shipment: | | |
| Relinquished by: | Date/Time: 4/21/25 1400 | Company Tetra Tech | Received by: | Date/Time: 4/22/25 0915 | Company TAB | |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company | |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company | |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.3 IR#SC

Ver: 10/10/2024

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

# Chain of Custody Record

eurofins | Environment Testing

| Client Information | Sampler: AJ Pleva | Lab PM: VanDette, Ryan T | Carrier Tracking No(s): | COC No: 480-204418-22776.2 |
|---|---|---|---|---|
| Client Contact: Adam Gray | Phone: 978 804 0488 | E-Mail: Ryan.VanDette@et.eurofinsus.com | State of Origin: | Page: Page 2 of 3 |
| Company: Geosyntec Consultants Inc | PWSID: | | | Job #: |
| Address: 10211 Wincopin Circle 4th Floor | Due Date Requested: | | | |
| City: Columbia | TAT Requested (days): | | | |
| State, Zip: MD, 21044 | Compliance Project: Δ Yes Δ No | | | |
| Phone: 850-483-5104(Tel) | PO #: 125001103 | | | |
| Email: agray@geosyntec.com | WO #: WO-MR0562S-7666 | | | |
| Project Name: Cortese Landfill Site/NY06 Event Desc: Semi-Annual GW - Sprin | Project #: 48002953 | | | |
| Site: New York | SSOW#: | | | |

**Analysis Requested**

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260C - Volatiles | 8270D - Semi-volatiles | 6010C - ICP Metals | D516 - Sulfate | 310.2 - Alkalinity, Total | 5310C - Organic Carbon, Total (TOC) | 350.1, 353.2_Pres | 8015D_DRO - DRO | 8015D_GRO - GRO | | | | | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Preservation Code: | | | | | | | A | N | D | N | N | S | S | N | A | | | | | | |
| MW-20A | | | | Water | | | | | | | | | | | | | | | | | |
| MW-20B | | | | Water | | | | | | | | | | | | | | | | | |
| MW-19 | | | | Water | | | | | | | | | | | | | | | | | |
| MW-21 | | | | Water | | | | | | | | | | | | | | | | | |
| MW-22 | 4/20/25 | 1425 | G | Water | N | N | X | X | X | X | X | X | X | — | — | | | | | 12 | |
| FDUP-02-GW | 4/20/25 | — | G | Water | N | N | X | X | X | X | X | X | X | - | ~ | | | | | 12 | |
| EX-1 | 4/20/25 | 1300 | G | Water | N | N | X | X | X | X | X | X | X | X | X | | | | | 17 | |
| FDUP-01-GW | | | | Water | | | | | | | | | | | | | | | | | |
| MW-10 | | | | Water | | | | | | | | | | | | | | | | | |
| MW-11 | | | | Water | | | | | | | | | | | | | | | | | |
| MW-1B | | | | Water | | | | | | | | | | | | | | | | | |

Preservation Codes:
A - HCL
N - None
D - HNO3
S - H2SO4

Other:

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

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

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

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|
| Relinquished by: | Date/Time: 4/21/25 1400 | Company: Terra Nova | Received by: C Walker |
| Relinquished by: | Date/Time: | Company | Received by: |
| Relinquished by: | Date/Time: | Company | Received by: |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.3 IR #5C |
|---|---|---|

Ver: 10/10/2024

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

# Chain of Custody Record

eurofins

| Client Information | Sampler: AI PIENA | Lab PM: VanDette, Ryan T | Carrier Tracking No(s): | COC No: 480-204418-22776.1 |
|---|---|---|---|---|
| Client Contact: Adam Gray | Phone: 908 804.0488 | E-Mail: Ryan.VanDette@et.eurofinsus.com | State of Origin: | Page: Page 1 of 3 |
| Company: Geosyntec Consultants Inc | PWSID: | | | Job #: |
| Address: 10211 Wincopin Circle 4th Floor | Due Date Requested: | | | |
| City: Columbia | TAT Requested (days): | | | |
| State, Zip: MD, 21044 | Compliance Project: Δ Yes Δ No | | | |
| Phone: 850-483-5104(Tel) | PO #: 125001103 | | | |
| Email: agray@geosyntec.com | WO #: WO-MR0562S-7666 | | | |
| Project Name: Cortese Landfill Site/NY06 Event Desc: Semi-Annual GW - Sprin | Project #: 48002953 | | | |
| Site: New York | SSOW#: | | | |

The wrong date of 4/2/25 was put on the following wells MW-1A and the Equipment should be 4/22/25

**Analysis Requested**

Preservation Codes:
A - HCL
N - None
D - HNO3
S - H2SO4

Other:

Special Instructions/Note:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260C - Volatiles | 8270D - Semi-volatiles | 6010C - ICP Metals | D516 - Sulfate | 310.2 - Alkalinity, Total | 5310C - Organic Carbon, Total (TOC) | 350.1, 353.2_Pres | 8015D_DRO - DRO | 8015D_GRO - GRO | Total Number of containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | A | N | D | N | N | S | S | N | A | |
| TRIP BLANK | — | | | Water | | | | | | | | | | | | |
| TRIP BLANK 2 | 4/21/25 | — | — | Water | N | N | X | - | - | - | - | - | - | - | | 3 |
| TRIP BLANK 3 | 4/22/25 | — | G | Water | N | N | X | - | - | - | - | - | - | - | | 3 |
| MW-6A | 4/21/25 | 1405 | G | Water | N | N | X | X | X | X | X | X | X | - | - | 12 |
| MW-6B | 4/21/25 | 1310 | G | Water | N | N | X | X | X | X | X | X | X | - | - | 12 |
| MW-7A | 4/21/25 | 1115 | G | Water | N | N | X | X | X | X | X | X | X | - | - | 12 |
| ~~MW-7B~~ dry No sample | | | | Water | | | | | | | | | | | | |
| MW-7M | 4/21/25 | 0950 | G | Water | N | N | X | X | X | X | X | X | X | - | - | 12 |
| MW-18A | 4/21/25 | 1430 | G | Water | N | N | X | X | X | X | X | X | X | - | - | 12 |
| MW-18B | 4/21/25 | 1215 | G | Water | N | N | X | X | X | X | X | X | X | - | - | 12 |
| MW-18C | 4/21/25 | 1250 | G | Water | N | N | X | X | X | X | X | X | X | - | - | 12 |

480-228898 Chain of Custody

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

**Sample Disposal ( A fee may be assessed if samples are retained longer ...**
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

| | | | | | |
|---|---|---|---|---|---|
| Empty Kit Relinquished by: | | Date: | Time: | Method of Shipment: | |
| Relinquished by: | Date/Time: 4/22/25 1700 | Company Tetra Tech | Received by: | Date/Time: 4-23-25 900 | Company TAT |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

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

# Chain of Custody Record

eurofins
Environment Testing

| Client Information | Sampler: Al Plesa | Lab PM: VanDette, Ryan T | Carrier Tracking No(s): | COC No: 480-204418-22776.3 |
|---|---|---|---|---|
| Client Contact: Adam Gray | Phone: 908 804 0488 | E-Mail: Ryan.VanDette@et.eurofinsus.com | State of Origin: | Page: Page 3 of 3 |
| Company: Geosyntec Consultants Inc | PWSID: | | | Job #: |
| Address: 10211 Wincopin Circle 4th Floor | Due Date Requested: | | | |
| City: Columbia | TAT Requested (days): | | | |
| State, Zip: MD, 21044 | Compliance Project: Δ Yes Δ No | | | |
| Phone: 850-483-5104(Tel) | PO #: 125001103 | | | |
| Email: agray@geosyntec.com | WO #: WO-MR0562S-7666 | | | |
| Project Name: Cortese Landfill Site/NY06 Event Desc: Semi-Annual GW - Sprin | Project #: 48002953 | | | |
| Site: New York | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL
N - None
D - HNO3
S - H2SO4
Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260C - Volatiles | 8270D - Semi-volatiles | 6010C - ICP Metals | D516 - Sulfate | 310.2 - Alkalinity, Total | 5310C - Organic Carbon, Total (TOC) | 350.1, 353.2_Pres | 8015D_DRO - DRO | 8015D_GRO - GRO | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | A | N | D | N | N | S | S | N | A | | |
| MW-1C | 4/22/25 | 1130 | G | Water | N | Y | X | X | X | X | X | X | X | X | X | 17 | |
| MW-1A | 4/22/25 | 1115 | G | Water | N | N | X | X | X | X | X | X | X | X | X | 17 | |
| MS (MW-1C) | 4/22/25 | 1130 | G | Water | N | Y | X | X | X | X | — | X | X | X | X | 16 | |
| MSD (MW-1C) | 4/22/25 | 1130 | G | Water | N | Y | X | X | X | X | — | X | X | X | X | 16 | |

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

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

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

Special Instructions/QC Requirements:

| | | | | | |
|---|---|---|---|---|---|
| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: | | |
| Relinquished by: | Date/Time: 4/22/25 1700 | Company Perla Nova | Received by: | Date/Time: 4-23-25 900 | Company TAB |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

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

Ver: 10/10/2024

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

# Chain of Custody Record

eurofins
Environment Testing

| Client Information | Sampler: AJ Plewa | Lab PM: VanDette, Ryan T | Carrier Tracking No(s): | COC No: 480-204418-22776.2 |
|---|---|---|---|---|
| Client Contact: Adam Gray | Phone: 908 804 0488 | E-Mail: Ryan.VanDette@et.eurofinsus.com | State of Origin: | Page: Page 2 of 3 |
| Company: Geosyntec Consultants Inc | PWSID: | | | Job #: |
| Address: 10211 Wincopin Circle 4th Floor | Due Date Requested: | | | |
| City: Columbia | TAT Requested (days): | | | |
| State, Zip: MD, 21044 | Compliance Project: Δ Yes Δ No | | | |
| Phone: 850-483-5104(Tel) | PO #: 125001103 | | | |
| Email: agray@geosyntec.com | WO #: WO-MR0562S-7666 | | | |
| Project Name: Cortese Landfill Site/NY06 Event Desc: Semi-Annual GW - Sprin | Project #: 48002953 | | | |
| Site: New York | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL
N - None
D - HNO3
S - H2SO4

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260C - Volatiles | 8270D - Semi-volatiles | 6010C - ICP Metals | D516 - Sulfate | 310.2 - Alkalinity, Total | 5310C - Organic Carbon, Total (TOC) | 350.1, 353.2_Pres | 8015D_DRO - DRO | 8015D_GRO - GRO | | | | | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | A | N | D | N | N | S | S | N | A | | | | | | |
| MW-20A | | | | Water | | | | | | | | | | | | | | | | | |
| MW-20B | | | | Water | | | | | | | | | | | | | | | | | |
| MW-19 | 4/22/25 | 1240 | G | Water | N | N | X | X | X | X | X | X | X | — | — | | | | | 12 | |
| MW-21 | 4/21/25 | 1230 | G | Water | N | N | X | X | X | X | X | X | X | — | — | | | | | 12 | |
| MW-22 | | | | Water | | | | | | | | | | | | | | | | 12 | |
| FDUP-02-GW | | | | Water | | | | | | | | | | — | — | | | | | 12 | |
| EX-1 | | | | Water | | | | | | | | | | | | | | | | | |
| FDUP-01-GW | 4/22/25 | — | G | Water | N | N | X | X | X | X | X | X | X | X | X | | | | | 17 | |
| MW-10 | 4/21/25 | 1100 | G | Water | N | N | X | X | X | X | X | X | X | X | X | | | | | 17 | |
| MW-11 | 4/21/25 | 1010 | G | Water | N | N | X | X | X | X | X | X | X | X | X | | | | | 17 | |
| MW-1B | 4/22/25 | 1100 | G | Water | N | N | X | X | X | X | X | X | X | X | X | | | | | 17 | |

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

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

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

Special Instructions/QC Requirements:

| | | | | | | |
|---|---|---|---|---|---|---|
| Empty Kit Relinquished by: | | Date: | Time: | Method of Shipment: | | |
| Relinquished by: | Date/Time: 4/23/25 1700 | Company Tetra Tech | Received by: | Date/Time: 4.23.25 900 | Company TAB | |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company | |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company | |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.3 2.6 3.0 2.9 ICE IR#SC

Ver: 10/10/2024

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

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: N/A | Lab PM: VanDette, Ryan T | Carrier Tracking No(s): N/A | COC No: 480-92252.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: N/A | E-Mail: Ryan.VanDette@et.eurofinsus.com | State of Origin: New Jersey | Page: Page 1 of 1 |
| Company: Eurofins Lancaster Laboratories Environm | | Accreditations Required (See note): NELAP - New York | | Job #: 480-228881-1 |
| Address: 2425 New Holland Pike, , | Due Date Requested: 5/12/2025 | | | Preservation Codes: - |
| City: Lancaster | TAT Requested (days): N/A | | | |
| State, Zip: PA, 17601 | | | | |
| Phone: 717-656-2300(Tel) | PO #: N/A | | | |
| Email: N/A | WO #: N/A | | | |
| Project Name: Cortese Landfill - Semiannual Groundwater | Project #: 48002953 | | | |
| Site: Cortese Landfill | SSOW#: N/A | | | Other: N/A |

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8015D_DRO/3510C_LVI (MOD) Diesel Range | 8015D_GRO/5030B (MOD) GRO | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | |
| EX-1 (480-228881-6) | 4/20/25 | 13:00 Eastern | G | Water | | | X | X | 5 | |

Analysis Requested

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

| Possible Hazard Identification | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) |
|---|---|
| Unconfirmed | ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

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

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| VHS | 4-23-25 1400 | | | | |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: L.J. Montero | Date/Time: 04/24/25 10:00 | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.1.6-C1.6 |
|---|---|---|

Ver: 10/10/2024

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

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: N/A | Lab PM: VanDette, Ryan T | Carrier Tracking No(s): N/A | COC No: 480-92253.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: N/A | E-Mail: Ryan.VanDette@et.eurofinsus.com | State of Origin: New Jersey | Page: Page 1 of 1 |
| Company: Eurofins Lancaster Laboratories Environm | | Accreditations Required (See note): NELAP - New York | | Job #: 480-228898-1 |
| Address: 2425 New Holland Pike, , | Due Date Requested: 5/13/2025 | | | |
| City: Lancaster | TAT Requested (days): N/A | | | |
| State, Zip: PA, 17601 | | | | |
| Phone: 717-656-2300(Tel) | PO #: N/A | | | |
| Email: N/A | WO #: N/A | | | |
| Project Name: Cortese Landfill | Project #: 48002953 | | | |
| Site: Cortese Landfill | SSOW#: N/A | | | |

**Analysis Requested**

**Preservation Codes:**
-

Other: N/A

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8015D_DRO/3510C_LVI (MOD) Diesel Range | 8015D_GRO/5030B (MOD) GRO | PRE_SCREEN | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| FDUP-01-GW (480-228898-1) | 4/22/25 | Eastern | G | Water | | | X | X | X | 2 | |
| MW-10 (480-228898-2) | 4/21/25 | 11:00 Eastern | G | Water | | | X | X | X | 2 | |
| MW-11 (480-228898-3) | 4/21/25 | 10:10 Eastern | G | Water | | | X | X | X | 2 | |
| MW-1A (480-228898-8) | 4/22/25 | 11:05 Eastern | G | Water | | | X | X | X | 2 | |
| MW-1B (480-228898-9) | 4/22/25 | 11:00 Eastern | G | Water | | | X | X | X | 2 | |
| MW-1C (480-228898-10) | 4/22/25 | 11:30 Eastern | G | Water | | | X | X | X | 2 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

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

| ***Possible Hazard Identification*** *Unconfirmed* | ***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months* |
|---|---|
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

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

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| VS | 4-23-25 1400 | | | | |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: Luis Montero | Date/Time: 04/24/25 10:00 | Company |

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

Ver: 10/10/2024

Date: April 2025 Attn: Ryan Van Dette

| Sampl ID | TOC DTW (ft) | TD (ft) | TOC elev (ft) | GW elev (ft) | Temp °C | pH | Sp Cond uS/cm | D.O. ppm | Turb NTU | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-1A | 17.93 | | | | 11.2 | 6.95 | 187 | 2.89 | 9.6 | |
| MW-1B | 17.22 | | | | 11.6 | 5.43 | 314 | 2.18 | 3.6 | |
| MW-1C | 16.61 | | | | 10.2 | 5.85 | 291 | 0.78 | 5.3 | |
| MW-6A | 19.82 | | | | 11.3 | 4.90 | 361 | 0.73 | 2.2 | |
| MW-6B | 20.18 | | | | 11.6 | 5.97 | 260 | 6.61 | 6.8 | |
| MW-7A | 20.79 | | | | 9.6 | 5.88 | 79 | 6.33 | 2.3 | |
| MW-7B | 18.48 | | | | 9.2 | 6.91 | 195 | 1.17 | 7.8 | |
| MW-7M | 19.52 | | | | 9.5 | 5.85 | 168 | 0.83 | 1.9 | |
| MW-10 | 18.85 | | | | 10.4 | 5.28 | 395 | 0.50 | 14 | |
| MW-18A | 22.65 | | | | 10.8 | 7.54 | 268 | 0.20 | 4.5 | |
| MW-18B | 22.11 | | | | 11.1 | 6.35 | 341 | 0.23 | 10 | |
| MW-18C | 21.84 | | | | 10.3 | 5.98 | 253 | 0.42 | 5.6 | |
| MW-19 | 24.00 | | | | 11.6 | 6.01 | 278 | 0.74 | 2.5 | |
| MW-20A | 21.33 | | | | 9.3 | 5.68 | 221 | 0.36 | 12 | |
| MW-20B | 20.55 | | | | 9.2 | 5.87 | 151 | 0.19 | 8.6 | |
| MW-21 | 22.51 | | | | 10.8 | 6.13 | 296 | 0.77 | 8.9 | |
| MW-22 | 15.15 | | | | 9.4 | 6.09 | 153 | 0.64 | 10 | |
| EX-1 | 21.88 | | | | 11.9 | 6.36 | 281 | 0.25 | 11 | |
| | | | | | | | | | | |
| MW-11 | 24.38 | | | | 11.1 | 6.90 | 164 | 0.55 | 3.9 | |

5/7/2025

# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 480-228881-1
SDG Number: 228881

**Login Number: 228881**
**List Number: 1**
**Creator: Yeager, Brian A**

**List Source: Eurofins Buffalo**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 3.3 ICE IR# SC |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time (Excluding tests with immediate HTs).. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | True | Terra Nova |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | True | |
| Chlorine Residual checked. | N/A | |

# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 480-228881-1
SDG Number: 228881

**Login Number: 228881**
**List Number: 2**
**Creator: Ballard, Megan**

**List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
**List Creation: 04/24/25 02:42 PM**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen). | True | |
| Cooler Temperature is recorded. | True | |
| WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen). | N/A | |
| WV:  Container Temperature is recorded. | N/A | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | False | Refer to Job Narrative for details. |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses. | True | |
| Is the Field Sampler's name present on COC? | False | Received project as a subcontract. |
| Sample custody seals are intact. | N/A | |
| VOA sample vials do not have headspace >6mm in diameter (none, if from WV)? | True | |

# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 480-228881-1
SDG Number: 228881

**Login Number: 228898**
**List Number: 1**
**Creator: Wallace, Cameron**

**List Source: Eurofins Buffalo**

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

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 480-228881-1
SDG Number: 228881

**Login Number: 228898**
**List Number: 2**
**Creator: Ballard, Megan**

**List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
**List Creation: 04/24/25 02:42 PM**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen). | True | |
| Cooler Temperature is recorded. | True | |
| WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen). | N/A | |
| WV:  Container Temperature is recorded. | N/A | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the containers received and the COC. | False | Refer to Job Narrative for details. |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | False | Refer to Job Narrative for details. |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses. | True | |
| Is the Field Sampler's name present on COC? | False | Received project as a subcontract. |
| Sample custody seals are intact. | N/A | |
| VOA sample vials do not have headspace >6mm in diameter (none, if from WV)? | True | |

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ted Wilson
Geosyntec Consultants Inc
10211 Wincopin Circle
4th Floor
Columbia, Maryland 21044

Generated 9/2/2025 8:47:26 AM Revision 1

## JOB DESCRIPTION

Cortese Landfill - Groundwater
Groundwater- July

## JOB NUMBER

480-231442-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.





my EOL

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

## Authorization



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Revision 1

Authorized for release by
Ryan VanDette, Project Manager II
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# Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 480-231442-1
Project/Site: Cortese Landfill - Groundwater

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| F1 | MS and/or MSD recovery exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| B | Compound was found in the blank and sample. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| H | Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

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

**Job Narrative**
**480-231442-1**

REVISION

The report being provided is a revision of the original report sent on 8/19/2025. The report (revision 1) is being revised due to the omission of Alkalinity for the Matrix spike and Matrix Spike Duplicate from the report.

Report revision history
Revision 0 - 8/19/2025 - Reason - the omission of Alkalinity for the Matrix spike and Matrix Spike Duplicate from the report.

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

**Receipt**
The samples were received on 7/31/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.0°C and 3.4°C.

**GC/MS VOA**
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: EX-1 (480-231442-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 753160 recovered above the upper control limit for Vinyl chloride and Chloromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are:FDUP-01-GW (480-231442-2), MW-10 (480-231442-3), MW-1B (480-231442-4), MW-1C (480-231442-5) and TRIP BLANK (480-231442-6).

Method 8260C: The continuing calibration verification (CCV) associated with batch 753160 recovered above the upper control limit for Chloromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:EX-1 (480-231442-1).

Method 8260C: The continuing calibration verification (CCV) analyzed in 480-753160 was outside the method criteria for the following analyte(s): Vinyl chloride. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. The associated sample is:EX-1 (480-231442-1).

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-753160 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are:MW-1C (480-231442-5[MS]) and MW-1C (480-231442-5[MSD]).

Method 8260C: The results reported for the following samples do not concur with results previously reported for this site: EX-1 (480-231442-1), FDUP-01-GW (480-231442-2) and MW-1B (480-231442-4). Reanalysis was performed, and the result(s) confirmed.

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

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

## Job ID: 480-231442-1 (Continued) Eurofins Buffalo

**General Chemistry**
Method 2320B: Reanalysis of the following samples were performed outside of the analytical holding time due to instrument QC failures: MW-1C (480-231442-5), MW-1C (480-231442-5[MS]) and MW-1C (480-231442-5[MSD]).

Method 350.1: The method blank and CCB for analytical batch 480-753230 contained Ammonia above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank and CCB; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 353.2_Pres: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-753236 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

# Detection Summary

Client: Geosyntec Consultants Inc
Job ID: 480-231442-1
Project/Site: Cortese Landfill - Groundwater

## Client Sample ID: EX-1 — Lab Sample ID: 480-231442-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 26 | J | 50 | 3.8 | ug/L | 10 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 59 | | 50 | 7.9 | ug/L | 10 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 37 | J | 50 | 7.8 | ug/L | 10 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 230 | | 50 | 8.4 | ug/L | 10 | | 8260C | Total/NA |
| Benzene | 18 | J | 50 | 4.1 | ug/L | 10 | | 8260C | Total/NA |
| Chlorobenzene | 180 | | 50 | 7.5 | ug/L | 10 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 210 | | 10 | 8.1 | ug/L | 10 | | 8260C | Total/NA |
| Ethylbenzene | 34 | J | 50 | 7.4 | ug/L | 10 | | 8260C | Total/NA |
| Vinyl chloride | 110 | | 50 | 9.0 | ug/L | 10 | | 8260C | Total/NA |
| Xylenes, Total | 10 | J | 50 | 6.6 | ug/L | 10 | | 8260C | Total/NA |
| Arsenic | 0.059 | | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 41.2 | | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 15.7 | | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Ammonia | 1.1 | B | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.035 | J F1 | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 3.5 | J | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Alkalinity, Total | 133 | | 5.0 | 0.79 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Organic Carbon | 6.4 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: FDUP-01-GW — Lab Sample ID: 480-231442-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 3.1 | J | 5.0 | 0.82 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 18 | | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 14 | | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 15 | | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 42 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 5.6 | | 5.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 94 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| Chloroform | 0.59 | J | 5.0 | 0.34 | ug/L | 1 | | 8260C | Total/NA |
| Ethylbenzene | 11 | | 5.0 | 0.74 | ug/L | 1 | | 8260C | Total/NA |
| Toluene | 7.1 | | 5.0 | 0.51 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 0.52 | J | 5.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| Vinyl chloride | 1.5 | J | 5.0 | 0.90 | ug/L | 1 | | 8260C | Total/NA |
| Xylenes, Total | 17 | | 5.0 | 0.66 | ug/L | 1 | | 8260C | Total/NA |
| Arsenic | 0.023 | | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 24.4 | | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 12.3 | | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Ammonia | 1.8 | B | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.034 | J | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Alkalinity, Total | 122 | | 5.0 | 0.79 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Organic Carbon | 5.0 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-10 — Lab Sample ID: 480-231442-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 0.87 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 2.0 | J | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 0.66 | J | 5.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 9.3 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| Arsenic | 0.069 | | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 29.2 | | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

# Detection Summary

Client: Geosyntec Consultants Inc
Job ID: 480-231442-1
Project/Site: Cortese Landfill - Groundwater

## Client Sample ID: MW-10 (Continued) — Lab Sample ID: 480-231442-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Manganese | 21.0 | | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Ammonia | 1.0 | B | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.030 | J | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 12.0 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Alkalinity, Total | 114 | | 5.0 | 0.79 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Organic Carbon | 4.2 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-1B — Lab Sample ID: 480-231442-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 3.0 | J | 5.0 | 0.82 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 17 | | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 14 | | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 16 | | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 43 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 5.5 | | 5.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 92 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| Chloroform | 0.69 | J | 5.0 | 0.34 | ug/L | 1 | | 8260C | Total/NA |
| Ethylbenzene | 10 | | 5.0 | 0.74 | ug/L | 1 | | 8260C | Total/NA |
| Toluene | 7.0 | | 5.0 | 0.51 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 0.52 | J | 5.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| Vinyl chloride | 1.5 | J | 5.0 | 0.90 | ug/L | 1 | | 8260C | Total/NA |
| Xylenes, Total | 16 | | 5.0 | 0.66 | ug/L | 1 | | 8260C | Total/NA |
| Arsenic | 0.022 | | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 25.2 | | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 12.8 | | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Ammonia | 1.7 | B | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.028 | J | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Alkalinity, Total | 120 | | 5.0 | 0.79 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Organic Carbon | 4.5 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-1C — Lab Sample ID: 480-231442-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 1.1 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 1.2 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 4.1 | J | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 5.9 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| Toluene | 1.5 | J | 5.0 | 0.51 | ug/L | 1 | | 8260C | Total/NA |
| Arsenic | 0.059 | | 0.010 | 0.0056 | mg/L | 1 | | 6010C | Total/NA |
| Iron | 44.7 | | 0.15 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 23.1 | | 0.0050 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Ammonia | 1.5 | B | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.037 | J F1 | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Alkalinity, Total | 150 | | 5.0 | 0.79 | mg/L | 1 | | SM 2320B | Total/NA |
| Alkalinity, Total | 130 | H | 5.0 | 0.79 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Organic Carbon | 7.0 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: TRIP BLANK — Lab Sample ID: 480-231442-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Groundwater

Job ID: 480-231442-1

## Client Sample ID: EX-1

**Date Collected: 07/30/25 13:10**
**Date Received: 07/31/25 09:00**

## Lab Sample ID: 480-231442-1

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 50 | 8.2 | ug/L | | | 07/31/25 16:04 | 10 |
| 1,1,2,2-Tetrachloroethane | ND | | 50 | 2.1 | ug/L | | | 07/31/25 16:04 | 10 |
| 1,1,2-Trichloroethane | ND | | 50 | 2.3 | ug/L | | | 07/31/25 16:04 | 10 |
| **1,1-Dichloroethane** | **26** | **J** | 50 | 3.8 | ug/L | | | 07/31/25 16:04 | 10 |
| 1,1-Dichloroethene | ND | | 50 | 2.9 | ug/L | | | 07/31/25 16:04 | 10 |
| **1,2-Dichlorobenzene** | **59** | | 50 | 7.9 | ug/L | | | 07/31/25 16:04 | 10 |
| 1,2-Dichloroethane | ND | | 50 | 2.1 | ug/L | | | 07/31/25 16:04 | 10 |
| 1,2-Dichloropropane | ND | | 50 | 7.2 | ug/L | | | 07/31/25 16:04 | 10 |
| **1,3-Dichlorobenzene** | **37** | **J** | 50 | 7.8 | ug/L | | | 07/31/25 16:04 | 10 |
| **1,4-Dichlorobenzene** | **230** | | 50 | 8.4 | ug/L | | | 07/31/25 16:04 | 10 |
| 2-Hexanone | ND | | 50 | 12 | ug/L | | | 07/31/25 16:04 | 10 |
| 2-Butanone (MEK) | ND | | 50 | 13 | ug/L | | | 07/31/25 16:04 | 10 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | 21 | ug/L | | | 07/31/25 16:04 | 10 |
| Acetone | ND | | 100 | 30 | ug/L | | | 07/31/25 16:04 | 10 |
| **Benzene** | **18** | **J** | 50 | 4.1 | ug/L | | | 07/31/25 16:04 | 10 |
| Bromodichloromethane | ND | | 50 | 3.9 | ug/L | | | 07/31/25 16:04 | 10 |
| Bromoform | ND | | 50 | 2.6 | ug/L | | | 07/31/25 16:04 | 10 |
| Bromomethane | ND | | 50 | 6.9 | ug/L | | | 07/31/25 16:04 | 10 |
| Carbon disulfide | ND | | 50 | 1.9 | ug/L | | | 07/31/25 16:04 | 10 |
| Carbon tetrachloride | ND | | 50 | 2.7 | ug/L | | | 07/31/25 16:04 | 10 |
| **Chlorobenzene** | **180** | | 50 | 7.5 | ug/L | | | 07/31/25 16:04 | 10 |
| Dibromochloromethane | ND | | 50 | 3.2 | ug/L | | | 07/31/25 16:04 | 10 |
| Chloroethane | ND | | 50 | 3.2 | ug/L | | | 07/31/25 16:04 | 10 |
| Chloroform | ND | | 50 | 3.4 | ug/L | | | 07/31/25 16:04 | 10 |
| Chloromethane | ND | | 50 | 3.5 | ug/L | | | 07/31/25 16:04 | 10 |
| **cis-1,2-Dichloroethene** | **210** | | 10 | 8.1 | ug/L | | | 07/31/25 16:04 | 10 |
| cis-1,3-Dichloropropene | ND | | 50 | 3.6 | ug/L | | | 07/31/25 16:04 | 10 |
| **Ethylbenzene** | **34** | **J** | 50 | 7.4 | ug/L | | | 07/31/25 16:04 | 10 |
| Methylene Chloride | ND | | 50 | 4.4 | ug/L | | | 07/31/25 16:04 | 10 |
| Styrene | ND | | 50 | 7.3 | ug/L | | | 07/31/25 16:04 | 10 |
| Tetrachloroethene | ND | | 50 | 3.6 | ug/L | | | 07/31/25 16:04 | 10 |
| Toluene | ND | | 50 | 5.1 | ug/L | | | 07/31/25 16:04 | 10 |
| trans-1,2-Dichloroethene | ND | | 10 | 9.0 | ug/L | | | 07/31/25 16:04 | 10 |
| trans-1,3-Dichloropropene | ND | | 50 | 3.7 | ug/L | | | 07/31/25 16:04 | 10 |
| Trichloroethene | ND | | 50 | 4.6 | ug/L | | | 07/31/25 16:04 | 10 |
| **Vinyl chloride** | **110** | | 50 | 9.0 | ug/L | | | 07/31/25 16:04 | 10 |
| **Xylenes, Total** | **10** | **J** | 50 | 6.6 | ug/L | | | 07/31/25 16:04 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *93* | | *77 - 120* | | *07/31/25 16:04* | *10* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *07/31/25 16:04* | *10* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *73 - 120* | | *07/31/25 16:04* | *10* |
| *Dibromofluoromethane (Surr)* | *102* | | *75 - 123* | | *07/31/25 16:04* | *10* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.059** | | 0.010 | 0.0056 | mg/L | | 08/01/25 07:53 | 08/01/25 17:06 | 1 |
| **Iron** | **41.2** | | 0.15 | 0.019 | mg/L | | 08/01/25 07:53 | 08/01/25 17:06 | 1 |
| **Manganese** | **15.7** | | 0.0050 | 0.00040 | mg/L | | 08/01/25 07:53 | 08/01/25 17:06 | 1 |

# Client Sample Results

Client: Geosyntec Consultants Inc
Job ID: 480-231442-1
Project/Site: Cortese Landfill - Groundwater

## Client Sample ID: EX-1
**Lab Sample ID: 480-231442-1**

**Date Collected: 07/30/25 13:10**
**Matrix: Water**

**Date Received: 07/31/25 09:00**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia (EPA 350.1) | 1.1 | B | 0.050 | 0.0090 | mg/L | | | 07/31/25 14:39 | 1 |
| Nitrate-Nitrite (EPA 353.2) | 0.035 | J F1 | 0.050 | 0.020 | mg/L | | | 07/31/25 15:01 | 1 |
| Sulfate (ASTM D516-90, 02) | 3.5 | J | 5.0 | 1.5 | mg/L | | | 08/05/25 09:10 | 1 |
| Alkalinity, Total (SM 2320B) | 133 | | 5.0 | 0.79 | mg/L | | | 08/06/25 22:27 | 1 |
| Total Organic Carbon (SM 5310C) | 6.4 | | 1.0 | 0.43 | mg/L | | | 08/05/25 11:31 | 1 |

## Client Sample ID: FDUP-01-GW

**Date Collected: 07/30/25 00:00**
**Date Received: 07/31/25 09:00**

## Lab Sample ID: 480-231442-2

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,1,1-Trichloroethane** | **3.1** | **J** | 5.0 | 0.82 | ug/L | | | 07/31/25 16:28 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 07/31/25 16:28 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 07/31/25 16:28 | 1 |
| **1,1-Dichloroethane** | **18** | | 5.0 | 0.38 | ug/L | | | 07/31/25 16:28 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 07/31/25 16:28 | 1 |
| **1,2-Dichlorobenzene** | **14** | | 5.0 | 0.79 | ug/L | | | 07/31/25 16:28 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 07/31/25 16:28 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 07/31/25 16:28 | 1 |
| **1,3-Dichlorobenzene** | **15** | | 5.0 | 0.78 | ug/L | | | 07/31/25 16:28 | 1 |
| **1,4-Dichlorobenzene** | **42** | | 5.0 | 0.84 | ug/L | | | 07/31/25 16:28 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 07/31/25 16:28 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 07/31/25 16:28 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 07/31/25 16:28 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 07/31/25 16:28 | 1 |
| **Benzene** | **5.6** | | 5.0 | 0.41 | ug/L | | | 07/31/25 16:28 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 07/31/25 16:28 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 07/31/25 16:28 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 07/31/25 16:28 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 07/31/25 16:28 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 07/31/25 16:28 | 1 |
| **Chlorobenzene** | **94** | | 5.0 | 0.75 | ug/L | | | 07/31/25 16:28 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 07/31/25 16:28 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 07/31/25 16:28 | 1 |
| **Chloroform** | **0.59** | **J** | 5.0 | 0.34 | ug/L | | | 07/31/25 16:28 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 07/31/25 16:28 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 07/31/25 16:28 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 07/31/25 16:28 | 1 |
| **Ethylbenzene** | **11** | | 5.0 | 0.74 | ug/L | | | 07/31/25 16:28 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 07/31/25 16:28 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 07/31/25 16:28 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 07/31/25 16:28 | 1 |
| **Toluene** | **7.1** | | 5.0 | 0.51 | ug/L | | | 07/31/25 16:28 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 07/31/25 16:28 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 07/31/25 16:28 | 1 |
| **Trichloroethene** | **0.52** | **J** | 5.0 | 0.46 | ug/L | | | 07/31/25 16:28 | 1 |
| **Vinyl chloride** | **1.5** | **J** | 5.0 | 0.90 | ug/L | | | 07/31/25 16:28 | 1 |
| **Xylenes, Total** | **17** | | 5.0 | 0.66 | ug/L | | | 07/31/25 16:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *77 - 120* | | *07/31/25 16:28* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *07/31/25 16:28* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *73 - 120* | | *07/31/25 16:28* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *75 - 123* | | *07/31/25 16:28* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.023** | | 0.010 | 0.0056 | mg/L | | 08/01/25 07:53 | 08/01/25 17:08 | 1 |
| **Iron** | **24.4** | | 0.15 | 0.019 | mg/L | | 08/01/25 07:53 | 08/01/25 17:08 | 1 |
| **Manganese** | **12.3** | | 0.0050 | 0.00040 | mg/L | | 08/01/25 07:53 | 08/01/25 17:08 | 1 |

# Client Sample Results

Client: Geosyntec Consultants Inc
Job ID: 480-231442-1
Project/Site: Cortese Landfill - Groundwater

## Client Sample ID: FDUP-01-GW
**Lab Sample ID: 480-231442-2**

**Date Collected: 07/30/25 00:00**
**Matrix: Water**
**Date Received: 07/31/25 09:00**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Ammonia (EPA 350.1)** | **1.8** | **B** | 0.050 | 0.0090 | mg/L | | | 07/31/25 15:27 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.034** | **J** | 0.050 | 0.020 | mg/L | | | 07/31/25 15:05 | 1 |
| Sulfate (ASTM D516-90, 02) | ND | | 5.0 | 1.5 | mg/L | | | 08/05/25 09:11 | 1 |
| **Alkalinity, Total (SM 2320B)** | **122** | | 5.0 | 0.79 | mg/L | | | 08/06/25 22:50 | 1 |
| **Total Organic Carbon (SM 5310C)** | **5.0** | | 1.0 | 0.43 | mg/L | | | 08/05/25 11:59 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Groundwater

Job ID: 480-231442-1

## Client Sample ID: MW-10

**Date Collected: 07/30/25 13:40**
**Date Received: 07/31/25 09:00**

## Lab Sample ID: 480-231442-3

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 07/31/25 16:52 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 07/31/25 16:52 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 07/31/25 16:52 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 07/31/25 16:52 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 07/31/25 16:52 | 1 |
| **1,2-Dichlorobenzene** | **0.87** | **J** | 5.0 | 0.79 | ug/L | | | 07/31/25 16:52 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 07/31/25 16:52 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 07/31/25 16:52 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 07/31/25 16:52 | 1 |
| **1,4-Dichlorobenzene** | **2.0** | **J** | 5.0 | 0.84 | ug/L | | | 07/31/25 16:52 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 07/31/25 16:52 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 07/31/25 16:52 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 07/31/25 16:52 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 07/31/25 16:52 | 1 |
| **Benzene** | **0.66** | **J** | 5.0 | 0.41 | ug/L | | | 07/31/25 16:52 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 07/31/25 16:52 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 07/31/25 16:52 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 07/31/25 16:52 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 07/31/25 16:52 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 07/31/25 16:52 | 1 |
| **Chlorobenzene** | **9.3** | | 5.0 | 0.75 | ug/L | | | 07/31/25 16:52 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 07/31/25 16:52 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 07/31/25 16:52 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 07/31/25 16:52 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 07/31/25 16:52 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 07/31/25 16:52 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 07/31/25 16:52 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 07/31/25 16:52 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 07/31/25 16:52 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 07/31/25 16:52 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 07/31/25 16:52 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 07/31/25 16:52 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 07/31/25 16:52 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 07/31/25 16:52 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 07/31/25 16:52 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 07/31/25 16:52 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 07/31/25 16:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *92* | | *77 - 120* | | *07/31/25 16:52* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *07/31/25 16:52* | *1* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *73 - 120* | | *07/31/25 16:52* | *1* |
| *Dibromofluoromethane (Surr)* | *100* | | *75 - 123* | | *07/31/25 16:52* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.069** | | 0.010 | 0.0056 | mg/L | | 08/01/25 07:53 | 08/01/25 17:10 | 1 |
| **Iron** | **29.2** | | 0.15 | 0.019 | mg/L | | 08/01/25 07:53 | 08/01/25 17:10 | 1 |
| **Manganese** | **21.0** | | 0.0050 | 0.00040 | mg/L | | 08/01/25 07:53 | 08/01/25 17:10 | 1 |

# Client Sample Results

Client: Geosyntec Consultants Inc
Job ID: 480-231442-1
Project/Site: Cortese Landfill - Groundwater

## Client Sample ID: MW-10
**Lab Sample ID: 480-231442-3**
**Date Collected: 07/30/25 13:40**
**Matrix: Water**
**Date Received: 07/31/25 09:00**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia (EPA 350.1) | 1.0 | B | 0.050 | 0.0090 | mg/L | | | 07/31/25 15:27 | 1 |
| Nitrate-Nitrite (EPA 353.2) | 0.030 | J | 0.050 | 0.020 | mg/L | | | 07/31/25 15:07 | 1 |
| Sulfate (ASTM D516-90, 02) | 12.0 | | 5.0 | 1.5 | mg/L | | | 08/05/25 09:11 | 1 |
| Alkalinity, Total (SM 2320B) | 114 | | 5.0 | 0.79 | mg/L | | | 08/06/25 22:58 | 1 |
| Total Organic Carbon (SM 5310C) | 4.2 | | 1.0 | 0.43 | mg/L | | | 08/05/25 12:27 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Groundwater

Job ID: 480-231442-1

## Client Sample ID: MW-1B

**Date Collected: 07/30/25 10:55**
**Date Received: 07/31/25 09:00**

## Lab Sample ID: 480-231442-4

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,1,1-Trichloroethane** | **3.0** | **J** | 5.0 | 0.82 | ug/L | | | 07/31/25 17:16 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 07/31/25 17:16 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 07/31/25 17:16 | 1 |
| **1,1-Dichloroethane** | **17** | | 5.0 | 0.38 | ug/L | | | 07/31/25 17:16 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 07/31/25 17:16 | 1 |
| **1,2-Dichlorobenzene** | **14** | | 5.0 | 0.79 | ug/L | | | 07/31/25 17:16 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 07/31/25 17:16 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 07/31/25 17:16 | 1 |
| **1,3-Dichlorobenzene** | **16** | | 5.0 | 0.78 | ug/L | | | 07/31/25 17:16 | 1 |
| **1,4-Dichlorobenzene** | **43** | | 5.0 | 0.84 | ug/L | | | 07/31/25 17:16 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 07/31/25 17:16 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 07/31/25 17:16 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 07/31/25 17:16 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 07/31/25 17:16 | 1 |
| **Benzene** | **5.5** | | 5.0 | 0.41 | ug/L | | | 07/31/25 17:16 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 07/31/25 17:16 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 07/31/25 17:16 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 07/31/25 17:16 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 07/31/25 17:16 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 07/31/25 17:16 | 1 |
| **Chlorobenzene** | **92** | | 5.0 | 0.75 | ug/L | | | 07/31/25 17:16 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 07/31/25 17:16 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 07/31/25 17:16 | 1 |
| **Chloroform** | **0.69** | **J** | 5.0 | 0.34 | ug/L | | | 07/31/25 17:16 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 07/31/25 17:16 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 07/31/25 17:16 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 07/31/25 17:16 | 1 |
| **Ethylbenzene** | **10** | | 5.0 | 0.74 | ug/L | | | 07/31/25 17:16 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 07/31/25 17:16 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 07/31/25 17:16 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 07/31/25 17:16 | 1 |
| **Toluene** | **7.0** | | 5.0 | 0.51 | ug/L | | | 07/31/25 17:16 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 07/31/25 17:16 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 07/31/25 17:16 | 1 |
| **Trichloroethene** | **0.52** | **J** | 5.0 | 0.46 | ug/L | | | 07/31/25 17:16 | 1 |
| **Vinyl chloride** | **1.5** | **J** | 5.0 | 0.90 | ug/L | | | 07/31/25 17:16 | 1 |
| **Xylenes, Total** | **16** | | 5.0 | 0.66 | ug/L | | | 07/31/25 17:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *95* | | *77 - 120* | | *07/31/25 17:16* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *07/31/25 17:16* | *1* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *73 - 120* | | *07/31/25 17:16* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *75 - 123* | | *07/31/25 17:16* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.022** | | 0.010 | 0.0056 | mg/L | | 08/01/25 07:53 | 08/01/25 17:12 | 1 |
| **Iron** | **25.2** | | 0.15 | 0.019 | mg/L | | 08/01/25 07:53 | 08/01/25 17:12 | 1 |
| **Manganese** | **12.8** | | 0.0050 | 0.00040 | mg/L | | 08/01/25 07:53 | 08/01/25 17:12 | 1 |

# Client Sample Results

Client: Geosyntec Consultants Inc
Job ID: 480-231442-1
Project/Site: Cortese Landfill - Groundwater

## Client Sample ID: MW-1B
**Lab Sample ID: 480-231442-4**
**Date Collected: 07/30/25 10:55**
**Matrix: Water**
**Date Received: 07/31/25 09:00**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Ammonia (EPA 350.1)** | **1.7** | **B** | 0.050 | 0.0090 | mg/L | | | 07/31/25 15:29 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.028** | **J** | 0.050 | 0.020 | mg/L | | | 07/31/25 15:08 | 1 |
| Sulfate (ASTM D516-90, 02) | ND | | 5.0 | 1.5 | mg/L | | | 08/05/25 09:16 | 1 |
| **Alkalinity, Total (SM 2320B)** | **120** | | 5.0 | 0.79 | mg/L | | | 08/06/25 23:06 | 1 |
| **Total Organic Carbon (SM 5310C)** | **4.5** | | 1.0 | 0.43 | mg/L | | | 08/05/25 13:50 | 1 |

## Client Sample ID: MW-1C

**Date Collected: 07/30/25 11:15**
**Date Received: 07/31/25 09:00**

## Lab Sample ID: 480-231442-5

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 07/31/25 17:39 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 07/31/25 17:39 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 07/31/25 17:39 | 1 |
| **1,1-Dichloroethane** | **1.1** | **J** | 5.0 | 0.38 | ug/L | | | 07/31/25 17:39 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 07/31/25 17:39 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 07/31/25 17:39 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 07/31/25 17:39 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 07/31/25 17:39 | 1 |
| **1,3-Dichlorobenzene** | **1.2** | **J** | 5.0 | 0.78 | ug/L | | | 07/31/25 17:39 | 1 |
| **1,4-Dichlorobenzene** | **4.1** | **J** | 5.0 | 0.84 | ug/L | | | 07/31/25 17:39 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 07/31/25 17:39 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 07/31/25 17:39 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 07/31/25 17:39 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 07/31/25 17:39 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 07/31/25 17:39 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 07/31/25 17:39 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 07/31/25 17:39 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 07/31/25 17:39 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 07/31/25 17:39 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 07/31/25 17:39 | 1 |
| **Chlorobenzene** | **5.9** | | 5.0 | 0.75 | ug/L | | | 07/31/25 17:39 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 07/31/25 17:39 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 07/31/25 17:39 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 07/31/25 17:39 | 1 |
| Chloromethane | ND | F1 | 5.0 | 0.35 | ug/L | | | 07/31/25 17:39 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 07/31/25 17:39 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 07/31/25 17:39 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 07/31/25 17:39 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 07/31/25 17:39 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 07/31/25 17:39 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 07/31/25 17:39 | 1 |
| **Toluene** | **1.5** | **J** | 5.0 | 0.51 | ug/L | | | 07/31/25 17:39 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 07/31/25 17:39 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 07/31/25 17:39 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 07/31/25 17:39 | 1 |
| Vinyl chloride | ND | F1 | 5.0 | 0.90 | ug/L | | | 07/31/25 17:39 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 07/31/25 17:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *91* | | *77 - 120* | | *07/31/25 17:39* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *80 - 120* | | *07/31/25 17:39* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *73 - 120* | | *07/31/25 17:39* | *1* |
| *Dibromofluoromethane (Surr)* | *100* | | *75 - 123* | | *07/31/25 17:39* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.059** | | 0.010 | 0.0056 | mg/L | | 08/01/25 07:53 | 08/01/25 17:14 | 1 |
| **Iron** | **44.7** | | 0.15 | 0.019 | mg/L | | 08/01/25 07:53 | 08/01/25 17:14 | 1 |
| **Manganese** | **23.1** | | 0.0050 | 0.00040 | mg/L | | 08/01/25 07:53 | 08/01/25 17:14 | 1 |

Client: Geosyntec Consultants Inc
Job ID: 480-231442-1
Project/Site: Cortese Landfill - Groundwater

**Client Sample ID: MW-1C**
**Lab Sample ID: 480-231442-5**
**Date Collected: 07/30/25 11:15**
**Matrix: Water**
**Date Received: 07/31/25 09:00**

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia (EPA 350.1) | 1.5 | B | 0.050 | 0.0090 | mg/L | | | 07/31/25 15:24 | 1 |
| Nitrate-Nitrite (EPA 353.2) | 0.037 | J F1 | 0.050 | 0.020 | mg/L | | | 07/31/25 14:42 | 1 |
| Sulfate (ASTM D516-90, 02) | ND | | 5.0 | 1.5 | mg/L | | | 08/05/25 08:58 | 1 |
| Alkalinity, Total (SM 2320B) | 150 | | 5.0 | 0.79 | mg/L | | | 08/06/25 23:12 | 1 |
| Alkalinity, Total (SM 2320B) | 130 | H | 5.0 | 0.79 | mg/L | | | 08/18/25 14:16 | 1 |
| Total Organic Carbon (SM 5310C) | 7.0 | | 1.0 | 0.43 | mg/L | | | 08/05/25 09:12 | 1 |

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Groundwater

Job ID: 480-231442-1

## Client Sample ID: TRIP BLANK

**Date Collected: 07/30/25 00:00**
**Date Received: 07/31/25 09:00**

## Lab Sample ID: 480-231442-6

**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 07/31/25 18:04 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 07/31/25 18:04 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 07/31/25 18:04 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 07/31/25 18:04 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 07/31/25 18:04 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 07/31/25 18:04 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 07/31/25 18:04 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 07/31/25 18:04 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 07/31/25 18:04 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 07/31/25 18:04 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 07/31/25 18:04 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 07/31/25 18:04 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 07/31/25 18:04 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 07/31/25 18:04 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 07/31/25 18:04 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 07/31/25 18:04 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 07/31/25 18:04 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 07/31/25 18:04 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 07/31/25 18:04 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 07/31/25 18:04 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 07/31/25 18:04 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 07/31/25 18:04 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 07/31/25 18:04 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 07/31/25 18:04 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 07/31/25 18:04 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 07/31/25 18:04 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 07/31/25 18:04 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 07/31/25 18:04 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 07/31/25 18:04 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 07/31/25 18:04 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 07/31/25 18:04 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 07/31/25 18:04 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 07/31/25 18:04 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 07/31/25 18:04 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 07/31/25 18:04 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 07/31/25 18:04 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 07/31/25 18:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *77 - 120* | | *07/31/25 18:04* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *80 - 120* | | *07/31/25 18:04* | *1* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *73 - 120* | | *07/31/25 18:04* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *75 - 123* | | *07/31/25 18:04* | *1* |

# Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Groundwater

Job ID: 480-231442-1

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

**Matrix: Water**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | TOL | BFB | DBFM |
| Lab Sample ID | Client Sample ID | (77-120) | (80-120) | (73-120) | (75-123) |
| 480-231442-1 | EX-1 | 93 | 100 | 99 | 102 |
| 480-231442-2 | FDUP-01-GW | 94 | 99 | 101 | 105 |
| 480-231442-3 | MW-10 | 92 | 101 | 102 | 100 |
| 480-231442-4 | MW-1B | 95 | 101 | 103 | 104 |
| 480-231442-5 | MW-1C | 91 | 98 | 99 | 100 |
| 480-231442-5 MS | MW-1C | 91 | 97 | 99 | 103 |
| 480-231442-5 MSD | MW-1C | 88 | 96 | 98 | 101 |
| 480-231442-6 | TRIP BLANK | 94 | 98 | 103 | 103 |
| LCS 480-753160/6 | Lab Control Sample | 93 | 101 | 101 | 104 |
| MB 480-753160/8 | Method Blank | 96 | 105 | 102 | 104 |

**Surrogate Legend**

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

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Groundwater

Job ID: 480-231442-1

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

**Lab Sample ID: MB 480-753160/8**
**Matrix: Water**
**Analysis Batch: 753160**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 07/31/25 12:40 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 07/31/25 12:40 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 07/31/25 12:40 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 07/31/25 12:40 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 07/31/25 12:40 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 07/31/25 12:40 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 07/31/25 12:40 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 07/31/25 12:40 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 07/31/25 12:40 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 07/31/25 12:40 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 07/31/25 12:40 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 07/31/25 12:40 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 07/31/25 12:40 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 07/31/25 12:40 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 07/31/25 12:40 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 07/31/25 12:40 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 07/31/25 12:40 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 07/31/25 12:40 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 07/31/25 12:40 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 07/31/25 12:40 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 07/31/25 12:40 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 07/31/25 12:40 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 07/31/25 12:40 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 07/31/25 12:40 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 07/31/25 12:40 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 07/31/25 12:40 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 07/31/25 12:40 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 07/31/25 12:40 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 07/31/25 12:40 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 07/31/25 12:40 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 07/31/25 12:40 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 07/31/25 12:40 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 07/31/25 12:40 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 07/31/25 12:40 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 07/31/25 12:40 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 07/31/25 12:40 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 07/31/25 12:40 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *77 - 120* | | *07/31/25 12:40* | *1* |
| *Toluene-d8 (Surr)* | *105* | | *80 - 120* | | *07/31/25 12:40* | *1* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *73 - 120* | | *07/31/25 12:40* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *75 - 123* | | *07/31/25 12:40* | *1* |

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

**Lab Sample ID: LCS 480-753160/6**
**Matrix: Water**
**Analysis Batch: 753160**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 25.0 | 23.8 | | ug/L | | 95 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 22.8 | | ug/L | | 91 | 70 - 126 |
| 1,1,2-Trichloroethane | 25.0 | 22.2 | | ug/L | | 89 | 76 - 122 |
| 1,1-Dichloroethane | 25.0 | 23.4 | | ug/L | | 94 | 71 - 129 |
| 1,1-Dichloroethene | 25.0 | 26.2 | | ug/L | | 105 | 58 - 121 |
| 1,2-Dichlorobenzene | 25.0 | 24.6 | | ug/L | | 98 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 20.7 | | ug/L | | 83 | 75 - 127 |
| 1,2-Dichloropropane | 25.0 | 23.8 | | ug/L | | 95 | 76 - 120 |
| 1,3-Dichlorobenzene | 25.0 | 24.7 | | ug/L | | 99 | 77 - 120 |
| 1,4-Dichlorobenzene | 25.0 | 25.3 | | ug/L | | 101 | 75 - 120 |
| 2-Hexanone | 125 | 136 | | ug/L | | 109 | 65 - 127 |
| 2-Butanone (MEK) | 125 | 132 | | ug/L | | 105 | 57 - 140 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 131 | | ug/L | | 104 | 71 - 125 |
| Acetone | 125 | 106 | | ug/L | | 85 | 56 - 142 |
| Benzene | 25.0 | 23.3 | | ug/L | | 93 | 71 - 124 |
| Bromodichloromethane | 25.0 | 22.1 | | ug/L | | 89 | 80 - 122 |
| Bromoform | 25.0 | 25.2 | | ug/L | | 101 | 66 - 128 |
| Bromomethane | 25.0 | 22.7 | | ug/L | | 91 | 55 - 144 |
| Carbon disulfide | 25.0 | 23.4 | | ug/L | | 94 | 59 - 134 |
| Carbon tetrachloride | 25.0 | 25.9 | | ug/L | | 104 | 72 - 134 |
| Chlorobenzene | 25.0 | 24.0 | | ug/L | | 96 | 72 - 120 |
| Dibromochloromethane | 25.0 | 24.3 | | ug/L | | 97 | 75 - 125 |
| Chloroethane | 25.0 | 23.4 | | ug/L | | 94 | 69 - 136 |
| Chloroform | 25.0 | 22.5 | | ug/L | | 90 | 73 - 127 |
| Chloromethane | 25.0 | 30.5 | | ug/L | | 122 | 68 - 124 |
| cis-1,2-Dichloroethene | 25.0 | 23.9 | | ug/L | | 96 | 74 - 124 |
| cis-1,3-Dichloropropene | 25.0 | 22.9 | | ug/L | | 92 | 74 - 124 |
| Ethylbenzene | 25.0 | 23.1 | | ug/L | | 92 | 77 - 123 |
| Methylene Chloride | 25.0 | 23.5 | | ug/L | | 94 | 57 - 132 |
| Styrene | 25.0 | 24.2 | | ug/L | | 97 | 70 - 130 |
| Tetrachloroethene | 25.0 | 27.0 | | ug/L | | 108 | 74 - 122 |
| Toluene | 25.0 | 23.2 | | ug/L | | 93 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 24.9 | | ug/L | | 100 | 73 - 127 |
| trans-1,3-Dichloropropene | 25.0 | 22.1 | | ug/L | | 88 | 72 - 123 |
| Trichloroethene | 25.0 | 24.0 | | ug/L | | 96 | 74 - 123 |
| Vinyl chloride | 25.0 | 29.1 | | ug/L | | 117 | 65 - 133 |
| Xylenes, Total | 50.0 | 47.5 | | ug/L | | 95 | 76 - 122 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *93* | | *77 - 120* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *73 - 120* |
| *Dibromofluoromethane (Surr)* | *104* | | *75 - 123* |

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

**Lab Sample ID: 480-231442-5 MS**
**Matrix: Water**
**Analysis Batch: 753160**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 25.0 | 25.1 | | ug/L | | 100 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | ND | | 25.0 | 23.6 | | ug/L | | 94 | 76 - 120 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 23.3 | | ug/L | | 93 | 76 - 122 |
| 1,1-Dichloroethane | 1.1 | J | 25.0 | 26.3 | | ug/L | | 101 | 77 - 120 |
| 1,1-Dichloroethene | ND | | 25.0 | 27.5 | | ug/L | | 110 | 66 - 127 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 25.7 | | ug/L | | 103 | 80 - 124 |
| 1,2-Dichloroethane | ND | | 25.0 | 21.8 | | ug/L | | 87 | 75 - 120 |
| 1,2-Dichloropropane | ND | | 25.0 | 26.0 | | ug/L | | 104 | 76 - 120 |
| 1,3-Dichlorobenzene | 1.2 | J | 25.0 | 26.5 | | ug/L | | 101 | 77 - 120 |
| 1,4-Dichlorobenzene | 4.1 | J | 25.0 | 29.3 | | ug/L | | 101 | 78 - 124 |
| 2-Hexanone | ND | | 125 | 131 | | ug/L | | 105 | 65 - 127 |
| 2-Butanone (MEK) | ND | | 125 | 130 | | ug/L | | 104 | 57 - 140 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 125 | 131 | | ug/L | | 105 | 71 - 125 |
| Acetone | ND | | 125 | 98.0 | | ug/L | | 78 | 56 - 142 |
| Benzene | ND | | 25.0 | 25.2 | | ug/L | | 101 | 71 - 124 |
| Bromodichloromethane | ND | | 25.0 | 22.8 | | ug/L | | 91 | 80 - 122 |
| Bromoform | ND | | 25.0 | 22.4 | | ug/L | | 89 | 61 - 132 |
| Bromomethane | ND | | 25.0 | 25.0 | | ug/L | | 100 | 55 - 144 |
| Carbon disulfide | ND | | 25.0 | 25.1 | | ug/L | | 100 | 59 - 134 |
| Carbon tetrachloride | ND | | 25.0 | 26.2 | | ug/L | | 105 | 72 - 134 |
| Chlorobenzene | 5.9 | | 25.0 | 31.1 | | ug/L | | 101 | 80 - 120 |
| Dibromochloromethane | ND | | 25.0 | 23.4 | | ug/L | | 94 | 75 - 125 |
| Chloroethane | ND | | 25.0 | 26.4 | | ug/L | | 105 | 69 - 136 |
| Chloroform | ND | | 25.0 | 24.1 | | ug/L | | 96 | 73 - 127 |
| Chloromethane | ND | F1 | 25.0 | 33.7 | F1 | ug/L | | 135 | 68 - 124 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 25.8 | | ug/L | | 103 | 74 - 124 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 23.1 | | ug/L | | 92 | 74 - 124 |
| Ethylbenzene | ND | | 25.0 | 25.0 | | ug/L | | 100 | 77 - 123 |
| Methylene Chloride | ND | | 25.0 | 25.2 | | ug/L | | 101 | 75 - 124 |
| Styrene | ND | | 25.0 | 24.9 | | ug/L | | 100 | 80 - 120 |
| Tetrachloroethene | ND | | 25.0 | 28.2 | | ug/L | | 113 | 74 - 122 |
| Toluene | 1.5 | J | 25.0 | 26.5 | | ug/L | | 100 | 80 - 122 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 27.5 | | ug/L | | 110 | 73 - 127 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 21.6 | | ug/L | | 86 | 80 - 120 |
| Trichloroethene | ND | | 25.0 | 26.2 | | ug/L | | 105 | 74 - 123 |
| Vinyl chloride | ND | F1 | 25.0 | 34.2 | F1 | ug/L | | 137 | 65 - 133 |
| Xylenes, Total | ND | | 50.0 | 51.4 | | ug/L | | 103 | 76 - 122 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *91* | | *77 - 120* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *73 - 120* |
| *Dibromofluoromethane (Surr)* | *103* | | *75 - 123* |

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

**Lab Sample ID: 480-231442-5 MSD**
**Matrix: Water**
**Analysis Batch: 753160**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 25.0 | 25.3 | | ug/L | | 101 | 73 - 126 | 1 | 15 |
| 1,1,2,2-Tetrachloroethane | ND | | 25.0 | 24.1 | | ug/L | | 97 | 76 - 120 | 2 | 15 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 23.8 | | ug/L | | 95 | 76 - 122 | 2 | 15 |
| 1,1-Dichloroethane | 1.1 | J | 25.0 | 26.3 | | ug/L | | 101 | 77 - 120 | 0 | 20 |
| 1,1-Dichloroethene | ND | | 25.0 | 27.5 | | ug/L | | 110 | 66 - 127 | 0 | 16 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 26.5 | | ug/L | | 106 | 80 - 124 | 3 | 20 |
| 1,2-Dichloroethane | ND | | 25.0 | 21.9 | | ug/L | | 87 | 75 - 120 | 0 | 20 |
| 1,2-Dichloropropane | ND | | 25.0 | 25.4 | | ug/L | | 102 | 76 - 120 | 2 | 20 |
| 1,3-Dichlorobenzene | 1.2 | J | 25.0 | 27.1 | | ug/L | | 103 | 77 - 120 | 2 | 20 |
| 1,4-Dichlorobenzene | 4.1 | J | 25.0 | 30.3 | | ug/L | | 105 | 78 - 124 | 3 | 20 |
| 2-Hexanone | ND | | 125 | 133 | | ug/L | | 106 | 65 - 127 | 1 | 15 |
| 2-Butanone (MEK) | ND | | 125 | 137 | | ug/L | | 110 | 57 - 140 | 5 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 125 | 134 | | ug/L | | 107 | 71 - 125 | 2 | 35 |
| Acetone | ND | | 125 | 101 | | ug/L | | 81 | 56 - 142 | 3 | 15 |
| Benzene | ND | | 25.0 | 25.1 | | ug/L | | 100 | 71 - 124 | 0 | 13 |
| Bromodichloromethane | ND | | 25.0 | 22.8 | | ug/L | | 91 | 80 - 122 | 0 | 15 |
| Bromoform | ND | | 25.0 | 22.9 | | ug/L | | 92 | 61 - 132 | 2 | 15 |
| Bromomethane | ND | | 25.0 | 25.4 | | ug/L | | 102 | 55 - 144 | 1 | 15 |
| Carbon disulfide | ND | | 25.0 | 24.7 | | ug/L | | 99 | 59 - 134 | 1 | 15 |
| Carbon tetrachloride | ND | | 25.0 | 26.1 | | ug/L | | 104 | 72 - 134 | 1 | 15 |
| Chlorobenzene | 5.9 | | 25.0 | 31.7 | | ug/L | | 103 | 80 - 120 | 2 | 25 |
| Dibromochloromethane | ND | | 25.0 | 24.0 | | ug/L | | 96 | 75 - 125 | 2 | 15 |
| Chloroethane | ND | | 25.0 | 27.0 | | ug/L | | 108 | 69 - 136 | 3 | 15 |
| Chloroform | ND | | 25.0 | 24.5 | | ug/L | | 98 | 73 - 127 | 2 | 20 |
| Chloromethane | ND | F1 | 25.0 | 34.4 | F1 | ug/L | | 138 | 68 - 124 | 2 | 15 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 25.4 | | ug/L | | 102 | 74 - 124 | 2 | 15 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 23.2 | | ug/L | | 93 | 74 - 124 | 1 | 15 |
| Ethylbenzene | ND | | 25.0 | 24.8 | | ug/L | | 99 | 77 - 123 | 1 | 15 |
| Methylene Chloride | ND | | 25.0 | 24.5 | | ug/L | | 98 | 75 - 124 | 3 | 15 |
| Styrene | ND | | 25.0 | 24.6 | | ug/L | | 98 | 80 - 120 | 1 | 20 |
| Tetrachloroethene | ND | | 25.0 | 28.0 | | ug/L | | 112 | 74 - 122 | 1 | 20 |
| Toluene | 1.5 | J | 25.0 | 26.4 | | ug/L | | 99 | 80 - 122 | 0 | 15 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 27.3 | | ug/L | | 109 | 73 - 127 | 1 | 20 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 21.6 | | ug/L | | 86 | 80 - 120 | 0 | 15 |
| Trichloroethene | ND | | 25.0 | 25.7 | | ug/L | | 103 | 74 - 123 | 2 | 16 |
| Vinyl chloride | ND | F1 | 25.0 | 34.0 | F1 | ug/L | | 136 | 65 - 133 | 0 | 15 |
| Xylenes, Total | ND | | 50.0 | 51.8 | | ug/L | | 104 | 76 - 122 | 1 | 16 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *88* | | *77 - 120* |
| *Toluene-d8 (Surr)* | *96* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *73 - 120* |
| *Dibromofluoromethane (Surr)* | *101* | | *75 - 123* |

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 480-753222/1-A**
**Matrix: Water**
**Analysis Batch: 753335**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 753222**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 08/01/25 07:53 | 08/01/25 17:00 | 1 |
| Iron | ND | | 0.15 | 0.019 | mg/L | | 08/01/25 07:53 | 08/01/25 17:00 | 1 |
| Manganese | ND | | 0.0050 | 0.00040 | mg/L | | 08/01/25 07:53 | 08/01/25 17:00 | 1 |

**Lab Sample ID: LCS 480-753222/2-A**
**Matrix: Water**
**Analysis Batch: 753335**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 753222**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 1.00 | 0.999 | | mg/L | | 100 | 80 - 120 |
| Iron | 5.12 | 5.98 | | mg/L | | 117 | 80 - 120 |
| Manganese | 0.500 | 0.516 | | mg/L | | 103 | 80 - 120 |

**Lab Sample ID: 480-231442-5 MS**
**Matrix: Water**
**Analysis Batch: 753335**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 753222**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.059 | | 1.00 | 1.04 | | mg/L | | 99 | 75 - 125 |
| Iron | 44.7 | | 5.12 | 48.69 | 4 | mg/L | | 78 | 75 - 125 |
| Manganese | 23.1 | | 0.500 | 22.78 | 4 | mg/L | | -71 | 75 - 125 |

**Lab Sample ID: 480-231442-5 MSD**
**Matrix: Water**
**Analysis Batch: 753335**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 753222**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.059 | | 1.00 | 1.06 | | mg/L | | 100 | 75 - 125 | 2 | 20 |
| Iron | 44.7 | | 5.12 | 49.99 | 4 | mg/L | | 103 | 75 - 125 | 3 | 20 |
| Manganese | 23.1 | | 0.500 | 23.46 | 4 | mg/L | | 66 | 75 - 125 | 3 | 20 |

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: MB 480-753230/30**
**Matrix: Water**
**Analysis Batch: 753230**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia | 0.0100 | J | 0.050 | 0.0090 | mg/L | | | 07/31/25 14:51 | 1 |

**Lab Sample ID: MB 480-753230/7**
**Matrix: Water**
**Analysis Batch: 753230**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia | 0.0100 | J | 0.050 | 0.0090 | mg/L | | | 07/31/25 14:24 | 1 |

## Method: 350.1 - Nitrogen, Ammonia (Continued)

**Lab Sample ID: LCS 480-753230/31**
**Matrix: Water**
**Analysis Batch: 753230**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Ammonia | 1.00 | 0.915 | | mg/L | | 92 | 90 - 110 |

**Lab Sample ID: LCS 480-753230/8**
**Matrix: Water**
**Analysis Batch: 753230**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Ammonia | 1.00 | 0.934 | | mg/L | | 93 | 90 - 110 |

**Lab Sample ID: 480-231442-5 MS**
**Matrix: Water**
**Analysis Batch: 753230**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia | 1.5 | B | 0.0800 | 1.55 | 4 | mg/L | | 30 | 90 - 110 |

**Lab Sample ID: 480-231442-5 MSD**
**Matrix: Water**
**Analysis Batch: 753230**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | 1.5 | B | 0.0800 | 1.52 | 4 | mg/L | | -11 | 90 - 110 | 2 | 20 |

## Method: 353.2 - Nitrogen, Nitrate-Nitrite

**Lab Sample ID: MB 480-753236/28**
**Matrix: Water**
**Analysis Batch: 753236**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | ND | | 0.050 | 0.020 | mg/L | | | 07/31/25 14:38 | 1 |

**Lab Sample ID: LCS 480-753236/29**
**Matrix: Water**
**Analysis Batch: 753236**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 1.50 | 1.46 | | mg/L | | 98 | 90 - 110 |

**Lab Sample ID: 480-231442-1 MS**
**Matrix: Water**
**Analysis Batch: 753236**

**Client Sample ID: EX-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 0.035 | J F1 | 0.998 | 0.445 | F1 | mg/L | | 41 | 90 - 110 |

## Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

**Lab Sample ID: 480-231442-5 MS**
**Matrix: Water**
**Analysis Batch: 753236**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 0.037 | J F1 | 0.998 | 0.418 | F1 | mg/L | | 38 | 90 - 110 | | |

**Lab Sample ID: 480-231442-5 MSD**
**Matrix: Water**
**Analysis Batch: 753236**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 0.037 | J F1 | 0.998 | 0.424 | F1 | mg/L | | 39 | 90 - 110 | 1 | 20 |

## Method: D516-90, 02 - Sulfate

**Lab Sample ID: MB 480-753463/15**
**Matrix: Water**
**Analysis Batch: 753463**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 08/05/25 08:57 | 1 |

**Lab Sample ID: MB 480-753463/46**
**Matrix: Water**
**Analysis Batch: 753463**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 08/05/25 09:08 | 1 |

**Lab Sample ID: MB 480-753463/52**
**Matrix: Water**
**Analysis Batch: 753463**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 08/05/25 09:10 | 1 |

**Lab Sample ID: MB 480-753463/59**
**Matrix: Water**
**Analysis Batch: 753463**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 08/05/25 09:13 | 1 |

**Lab Sample ID: MB 480-753463/65**
**Matrix: Water**
**Analysis Batch: 753463**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 08/05/25 09:16 | 1 |

## Method: D516-90, 02 - Sulfate (Continued)

**Lab Sample ID: LCS 480-753463/14**
**Matrix: Water**
**Analysis Batch: 753463**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 30.0 | 28.67 | | mg/L | | 96 | 90 - 110 |

**Lab Sample ID: LCS 480-753463/51**
**Matrix: Water**
**Analysis Batch: 753463**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 30.0 | 29.47 | | mg/L | | 98 | 90 - 110 |

**Lab Sample ID: LCS 480-753463/58**
**Matrix: Water**
**Analysis Batch: 753463**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 30.0 | 29.41 | | mg/L | | 98 | 90 - 110 |

**Lab Sample ID: LCS 480-753463/64**
**Matrix: Water**
**Analysis Batch: 753463**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 30.0 | 29.75 | | mg/L | | 99 | 90 - 110 |

**Lab Sample ID: 480-231442-4 MS**
**Matrix: Water**
**Analysis Batch: 753463**

**Client Sample ID: MW-1B**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 20.0 | 22.50 | | mg/L | | 113 | 60 - 128 |

**Lab Sample ID: 480-231442-4 MSD**
**Matrix: Water**
**Analysis Batch: 753463**

**Client Sample ID: MW-1B**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 20.0 | 23.38 | | mg/L | | 117 | 60 - 128 | 4 | 20 |

**Lab Sample ID: 480-231442-5 MS**
**Matrix: Water**
**Analysis Batch: 753463**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 20.0 | 21.70 | | mg/L | | 108 | 60 - 128 |

**Lab Sample ID: 480-231442-5 MSD**
**Matrix: Water**
**Analysis Batch: 753463**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 20.0 | 22.18 | | mg/L | | 111 | 60 - 128 | 2 | 20 |

## Method: SM 2320B - Alkalinity

**Lab Sample ID: MB 480-753907/55**
**Matrix: Water**
**Analysis Batch: 753907**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 0.79 | mg/L | | | 08/06/25 21:14 | 1 |

**Lab Sample ID: LCS 480-753907/56**
**Matrix: Water**
**Analysis Batch: 753907**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 100 | 101.3 | | mg/L | | 101 | 90 - 110 |

**Lab Sample ID: MB 480-754726/29**
**Matrix: Water**
**Analysis Batch: 754726**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 0.79 | mg/L | | | 08/18/25 16:46 | 1 |

**Lab Sample ID: MB 480-754726/5**
**Matrix: Water**
**Analysis Batch: 754726**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 0.79 | mg/L | | | 08/18/25 14:03 | 1 |

**Lab Sample ID: LCS 480-754726/30**
**Matrix: Water**
**Analysis Batch: 754726**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 100 | 93.60 | | mg/L | | 94 | 90 - 110 |

**Lab Sample ID: LCS 480-754726/6**
**Matrix: Water**
**Analysis Batch: 754726**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 100 | 98.80 | | mg/L | | 99 | 90 - 110 |

## Method: SM 5310C - TOC

**Lab Sample ID: MB 480-753529/28**
**Matrix: Water**
**Analysis Batch: 753529**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 1.0 | 0.43 | mg/L | | | 08/04/25 21:12 | 1 |

## Method: SM 5310C - TOC (Continued)

**Lab Sample ID: MB 480-753529/52**
**Matrix: Water**
**Analysis Batch: 753529**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 1.0 | 0.43 | mg/L | | | 08/05/25 08:17 | 1 |

**Lab Sample ID: LCS 480-753529/29**
**Matrix: Water**
**Analysis Batch: 753529**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | | | 30.0 | 28.89 | | mg/L | | 96 | 90 - 110 | | |

**Lab Sample ID: LCS 480-753529/53**
**Matrix: Water**
**Analysis Batch: 753529**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | | | 30.0 | 29.21 | | mg/L | | 97 | 90 - 110 | | |

**Lab Sample ID: 480-231442-4 MS**
**Matrix: Water**
**Analysis Batch: 753529**

**Client Sample ID: MW-1B**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 4.5 | | 23.3 | 27.28 | | mg/L | | 98 | 54 - 131 | | |

**Lab Sample ID: 480-231442-5 MS**
**Matrix: Water**
**Analysis Batch: 753529**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 7.0 | | 23.3 | 30.10 | | mg/L | | 99 | 54 - 131 | | |

**Lab Sample ID: 480-231442-5 MSD**
**Matrix: Water**
**Analysis Batch: 753529**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 7.0 | | 23.3 | 30.10 | | mg/L | | 99 | 54 - 131 | 0 | 20 |

# QC Association Summary

Client: Geosyntec Consultants Inc
Job ID: 480-231442-1
Project/Site: Cortese Landfill - Groundwater

## GC/MS VOA

### Analysis Batch: 753160

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-231442-1 | EX-1 | Total/NA | Water | 8260C | |
| 480-231442-2 | FDUP-01-GW | Total/NA | Water | 8260C | |
| 480-231442-3 | MW-10 | Total/NA | Water | 8260C | |
| 480-231442-4 | MW-1B | Total/NA | Water | 8260C | |
| 480-231442-5 | MW-1C | Total/NA | Water | 8260C | |
| 480-231442-6 | TRIP BLANK | Total/NA | Water | 8260C | |
| MB 480-753160/8 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-753160/6 | Lab Control Sample | Total/NA | Water | 8260C | |
| 480-231442-5 MS | MW-1C | Total/NA | Water | 8260C | |
| 480-231442-5 MSD | MW-1C | Total/NA | Water | 8260C | |

## Metals

### Prep Batch: 753222

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-231442-1 | EX-1 | Total/NA | Water | 3005A | |
| 480-231442-2 | FDUP-01-GW | Total/NA | Water | 3005A | |
| 480-231442-3 | MW-10 | Total/NA | Water | 3005A | |
| 480-231442-4 | MW-1B | Total/NA | Water | 3005A | |
| 480-231442-5 | MW-1C | Total/NA | Water | 3005A | |
| MB 480-753222/1-A | Method Blank | Total/NA | Water | 3005A | |
| LCS 480-753222/2-A | Lab Control Sample | Total/NA | Water | 3005A | |
| 480-231442-5 MS | MW-1C | Total/NA | Water | 3005A | |
| 480-231442-5 MSD | MW-1C | Total/NA | Water | 3005A | |

### Analysis Batch: 753335

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-231442-1 | EX-1 | Total/NA | Water | 6010C | 753222 |
| 480-231442-2 | FDUP-01-GW | Total/NA | Water | 6010C | 753222 |
| 480-231442-3 | MW-10 | Total/NA | Water | 6010C | 753222 |
| 480-231442-4 | MW-1B | Total/NA | Water | 6010C | 753222 |
| 480-231442-5 | MW-1C | Total/NA | Water | 6010C | 753222 |
| MB 480-753222/1-A | Method Blank | Total/NA | Water | 6010C | 753222 |
| LCS 480-753222/2-A | Lab Control Sample | Total/NA | Water | 6010C | 753222 |
| 480-231442-5 MS | MW-1C | Total/NA | Water | 6010C | 753222 |
| 480-231442-5 MSD | MW-1C | Total/NA | Water | 6010C | 753222 |

## General Chemistry

### Analysis Batch: 753230

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-231442-1 | EX-1 | Total/NA | Water | 350.1 | |
| 480-231442-2 | FDUP-01-GW | Total/NA | Water | 350.1 | |
| 480-231442-3 | MW-10 | Total/NA | Water | 350.1 | |
| 480-231442-4 | MW-1B | Total/NA | Water | 350.1 | |
| 480-231442-5 | MW-1C | Total/NA | Water | 350.1 | |
| MB 480-753230/30 | Method Blank | Total/NA | Water | 350.1 | |
| MB 480-753230/7 | Method Blank | Total/NA | Water | 350.1 | |
| LCS 480-753230/31 | Lab Control Sample | Total/NA | Water | 350.1 | |
| LCS 480-753230/8 | Lab Control Sample | Total/NA | Water | 350.1 | |
| 480-231442-5 MS | MW-1C | Total/NA | Water | 350.1 | |
| 480-231442-5 MSD | MW-1C | Total/NA | Water | 350.1 | |

## General Chemistry

### Analysis Batch: 753236

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-231442-1 | EX-1 | Total/NA | Water | 353.2 | |
| 480-231442-2 | FDUP-01-GW | Total/NA | Water | 353.2 | |
| 480-231442-3 | MW-10 | Total/NA | Water | 353.2 | |
| 480-231442-4 | MW-1B | Total/NA | Water | 353.2 | |
| 480-231442-5 | MW-1C | Total/NA | Water | 353.2 | |
| MB 480-753236/28 | Method Blank | Total/NA | Water | 353.2 | |
| LCS 480-753236/29 | Lab Control Sample | Total/NA | Water | 353.2 | |
| 480-231442-1 MS | EX-1 | Total/NA | Water | 353.2 | |
| 480-231442-5 MS | MW-1C | Total/NA | Water | 353.2 | |
| 480-231442-5 MSD | MW-1C | Total/NA | Water | 353.2 | |

### Analysis Batch: 753463

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-231442-1 | EX-1 | Total/NA | Water | D516-90, 02 | |
| 480-231442-2 | FDUP-01-GW | Total/NA | Water | D516-90, 02 | |
| 480-231442-3 | MW-10 | Total/NA | Water | D516-90, 02 | |
| 480-231442-4 | MW-1B | Total/NA | Water | D516-90, 02 | |
| 480-231442-5 | MW-1C | Total/NA | Water | D516-90, 02 | |
| MB 480-753463/15 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-753463/46 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-753463/52 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-753463/59 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-753463/65 | Method Blank | Total/NA | Water | D516-90, 02 | |
| LCS 480-753463/14 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| LCS 480-753463/51 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| LCS 480-753463/58 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| LCS 480-753463/64 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| 480-231442-4 MS | MW-1B | Total/NA | Water | D516-90, 02 | |
| 480-231442-4 MSD | MW-1B | Total/NA | Water | D516-90, 02 | |
| 480-231442-5 MS | MW-1C | Total/NA | Water | D516-90, 02 | |
| 480-231442-5 MSD | MW-1C | Total/NA | Water | D516-90, 02 | |

### Analysis Batch: 753529

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-231442-1 | EX-1 | Total/NA | Water | SM 5310C | |
| 480-231442-2 | FDUP-01-GW | Total/NA | Water | SM 5310C | |
| 480-231442-3 | MW-10 | Total/NA | Water | SM 5310C | |
| 480-231442-4 | MW-1B | Total/NA | Water | SM 5310C | |
| 480-231442-5 | MW-1C | Total/NA | Water | SM 5310C | |
| MB 480-753529/28 | Method Blank | Total/NA | Water | SM 5310C | |
| MB 480-753529/52 | Method Blank | Total/NA | Water | SM 5310C | |
| LCS 480-753529/29 | Lab Control Sample | Total/NA | Water | SM 5310C | |
| LCS 480-753529/53 | Lab Control Sample | Total/NA | Water | SM 5310C | |
| 480-231442-4 MS | MW-1B | Total/NA | Water | SM 5310C | |
| 480-231442-5 MS | MW-1C | Total/NA | Water | SM 5310C | |
| 480-231442-5 MSD | MW-1C | Total/NA | Water | SM 5310C | |

### Analysis Batch: 753907

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-231442-1 | EX-1 | Total/NA | Water | SM 2320B | |
| 480-231442-2 | FDUP-01-GW | Total/NA | Water | SM 2320B | |

## General Chemistry (Continued)

### Analysis Batch: 753907 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-231442-3 | MW-10 | Total/NA | Water | SM 2320B | |
| 480-231442-4 | MW-1B | Total/NA | Water | SM 2320B | |
| 480-231442-5 | MW-1C | Total/NA | Water | SM 2320B | |
| MB 480-753907/55 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 480-753907/56 | Lab Control Sample | Total/NA | Water | SM 2320B | |

### Analysis Batch: 754726

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-231442-5 | MW-1C | Total/NA | Water | SM 2320B | |
| MB 480-754726/29 | Method Blank | Total/NA | Water | SM 2320B | |
| MB 480-754726/5 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 480-754726/30 | Lab Control Sample | Total/NA | Water | SM 2320B | |
| LCS 480-754726/6 | Lab Control Sample | Total/NA | Water | SM 2320B | |

# Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Groundwater

Job ID: 480-231442-1

## Client Sample ID: EX-1
**Lab Sample ID: 480-231442-1**
**Date Collected: 07/30/25 13:10**
**Matrix: Water**
**Date Received: 07/31/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 10 | 753160 | ATG | EET BUF | 07/31/25 16:04 |
| Total/NA | Prep | 3005A | | | 753222 | EMO | EET BUF | 08/01/25 07:53 |
| Total/NA | Analysis | 6010C | | 1 | 753335 | MP | EET BUF | 08/01/25 17:06 |
| Total/NA | Analysis | 350.1 | | 1 | 753230 | AM | EET BUF | 07/31/25 14:39 |
| Total/NA | Analysis | 353.2 | | 1 | 753236 | AM | EET BUF | 07/31/25 15:01 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 753463 | CG | EET BUF | 08/05/25 09:10 |
| Total/NA | Analysis | SM 2320B | | 1 | 753907 | IMZ | EET BUF | 08/06/25 22:27 |
| Total/NA | Analysis | SM 5310C | | 1 | 753529 | AF | EET BUF | 08/05/25 11:31 |

## Client Sample ID: FDUP-01-GW
**Lab Sample ID: 480-231442-2**
**Date Collected: 07/30/25 00:00**
**Matrix: Water**
**Date Received: 07/31/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 753160 | ATG | EET BUF | 07/31/25 16:28 |
| Total/NA | Prep | 3005A | | | 753222 | EMO | EET BUF | 08/01/25 07:53 |
| Total/NA | Analysis | 6010C | | 1 | 753335 | MP | EET BUF | 08/01/25 17:08 |
| Total/NA | Analysis | 350.1 | | 1 | 753230 | AM | EET BUF | 07/31/25 15:27 |
| Total/NA | Analysis | 353.2 | | 1 | 753236 | AM | EET BUF | 07/31/25 15:05 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 753463 | CG | EET BUF | 08/05/25 09:11 |
| Total/NA | Analysis | SM 2320B | | 1 | 753907 | IMZ | EET BUF | 08/06/25 22:50 |
| Total/NA | Analysis | SM 5310C | | 1 | 753529 | AF | EET BUF | 08/05/25 11:59 |

## Client Sample ID: MW-10
**Lab Sample ID: 480-231442-3**
**Date Collected: 07/30/25 13:40**
**Matrix: Water**
**Date Received: 07/31/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 753160 | ATG | EET BUF | 07/31/25 16:52 |
| Total/NA | Prep | 3005A | | | 753222 | EMO | EET BUF | 08/01/25 07:53 |
| Total/NA | Analysis | 6010C | | 1 | 753335 | MP | EET BUF | 08/01/25 17:10 |
| Total/NA | Analysis | 350.1 | | 1 | 753230 | AM | EET BUF | 07/31/25 15:27 |
| Total/NA | Analysis | 353.2 | | 1 | 753236 | AM | EET BUF | 07/31/25 15:07 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 753463 | CG | EET BUF | 08/05/25 09:11 |
| Total/NA | Analysis | SM 2320B | | 1 | 753907 | IMZ | EET BUF | 08/06/25 22:58 |
| Total/NA | Analysis | SM 5310C | | 1 | 753529 | AF | EET BUF | 08/05/25 12:27 |

## Client Sample ID: MW-1B
**Lab Sample ID: 480-231442-4**
**Date Collected: 07/30/25 10:55**
**Matrix: Water**
**Date Received: 07/31/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 753160 | ATG | EET BUF | 07/31/25 17:16 |

# Lab Chronicle

Client: Geosyntec Consultants Inc
Job ID: 480-231442-1
Project/Site: Cortese Landfill - Groundwater

## Client Sample ID: MW-1B
**Lab Sample ID: 480-231442-4**
**Date Collected: 07/30/25 10:55**
**Matrix: Water**
**Date Received: 07/31/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3005A | | | 753222 | EMO | EET BUF | 08/01/25 07:53 |
| Total/NA | Analysis | 6010C | | 1 | 753335 | MP | EET BUF | 08/01/25 17:12 |
| Total/NA | Analysis | 350.1 | | 1 | 753230 | AM | EET BUF | 07/31/25 15:29 |
| Total/NA | Analysis | 353.2 | | 1 | 753236 | AM | EET BUF | 07/31/25 15:08 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 753463 | CG | EET BUF | 08/05/25 09:16 |
| Total/NA | Analysis | SM 2320B | | 1 | 753907 | IMZ | EET BUF | 08/06/25 23:06 |
| Total/NA | Analysis | SM 5310C | | 1 | 753529 | AF | EET BUF | 08/05/25 13:50 |

## Client Sample ID: MW-1C
**Lab Sample ID: 480-231442-5**
**Date Collected: 07/30/25 11:15**
**Matrix: Water**
**Date Received: 07/31/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 753160 | ATG | EET BUF | 07/31/25 17:39 |
| Total/NA | Prep | 3005A | | | 753222 | EMO | EET BUF | 08/01/25 07:53 |
| Total/NA | Analysis | 6010C | | 1 | 753335 | MP | EET BUF | 08/01/25 17:14 |
| Total/NA | Analysis | 350.1 | | 1 | 753230 | AM | EET BUF | 07/31/25 15:24 |
| Total/NA | Analysis | 353.2 | | 1 | 753236 | AM | EET BUF | 07/31/25 14:42 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 753463 | CG | EET BUF | 08/05/25 08:58 |
| Total/NA | Analysis | SM 2320B | | 1 | 753907 | IMZ | EET BUF | 08/06/25 23:12 |
| Total/NA | Analysis | SM 2320B | | 1 | 754726 | IMZ | EET BUF | 08/18/25 14:16 |
| Total/NA | Analysis | SM 5310C | | 1 | 753529 | AF | EET BUF | 08/05/25 09:12 |

## Client Sample ID: TRIP BLANK
**Lab Sample ID: 480-231442-6**
**Date Collected: 07/30/25 00:00**
**Matrix: Water**
**Date Received: 07/31/25 09:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 753160 | ATG | EET BUF | 07/31/25 18:04 |

**Laboratory References:**
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Job ID: 480-231442-1
Project/Site: Cortese Landfill - Groundwater

## Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| New York | NELAP | 10026 | 08-27-25 |

# Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Groundwater

Job ID: 480-231442-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | EET BUF |
| 6010C | Metals (ICP) | SW846 | EET BUF |
| 350.1 | Nitrogen, Ammonia | EPA | EET BUF |
| 353.2 | Nitrogen, Nitrate-Nitrite | EPA | EET BUF |
| D516-90, 02 | Sulfate | ASTM | EET BUF |
| SM 2320B | Alkalinity | SM | EET BUF |
| SM 5310C | TOC | SM | EET BUF |
| 3005A | Preparation, Total Metals | SW846 | EET BUF |
| 5030C | Purge and Trap | SW846 | EET BUF |

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

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

**Laboratory References:**

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

# Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Cortese Landfill - Groundwater

Job ID: 480-231442-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Sample Origin |
|---|---|---|---|---|---|
| 480-231442-1 | EX-1 | Water | 07/30/25 13:10 | 07/31/25 09:00 | New Jersey |
| 480-231442-2 | FDUP-01-GW | Water | 07/30/25 00:00 | 07/31/25 09:00 | New Jersey |
| 480-231442-3 | MW-10 | Water | 07/30/25 13:40 | 07/31/25 09:00 | New Jersey |
| 480-231442-4 | MW-1B | Water | 07/30/25 10:55 | 07/31/25 09:00 | New Jersey |
| 480-231442-5 | MW-1C | Water | 07/30/25 11:15 | 07/31/25 09:00 | New Jersey |
| 480-231442-6 | TRIP BLANK | Water | 07/30/25 00:00 | 07/31/25 09:00 | New Jersey |

# Quantitation Limit Exceptions Summary

Client: Geosyntec Consultants Inc
Job ID: 480-231442-1
Project/Site: Cortese Landfill - Groundwater

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

| Method | Analyte | Matrix | Prep Type | Unit | Client RL | Lab PQL |
|---|---|---|---|---|---|---|
| 8260C | 2-Butanone (MEK) | Water | Total/NA | ug/L | 5.0 | 10 |
| 6010C | Arsenic | Water | Total/NA | mg/L | 0.010 | 0.015 |

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

# Chain of Custody Record

eurofins | Environment Testing

| Client Information | Sampler: Al Pleva | Lab PM: VanDette, Ryan T | Carrier Tracking No(s): | COC No: 480-206909-17505.1 |
|---|---|---|---|---|
| Client Contact: Mr. Al Pleva | Phone: 908 804 0484 | E-Mail: Ryan.VanDette@et.eurofinsus.com | State of Origin: N.Y. | Page: Page 1 of 1 |
| Company: Terra Nova | PWSID: | Analysis Requested | | Job #: |
| Address: 7 Probasco Drive | Due Date Requested: | | | Preservation Codes: D - HNO3, A - HCL, N - None, S - H2SO4 |
| City: Allentown | TAT Requested (days): | | | |
| State, Zip: NJ, 08501 | Compliance Project: Δ Yes Δ No | | | |
| Phone: 850-483-5104(Tel) | PO #: 125001103 | | | |
| Email: terranovanj@aol.com | WO #: 7666 | | | 480-231442 Chain of Custody |
| Project Name: Cortese Landfill Site/NY06 Event Desc: Groundwater- July | Project #: 48002953 | | | |
| Site: New York | SSOW#: | | | Other: |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6010C - Total Metals ICP | 8260C - Volatiles | D516 - Sulfate | 310.2 - Alkalinity, Total | 350.1, 353.2_Pres | 5310C - Organic Carbon, Total (TOC) | Total Number of conta | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | D | A | N | N | S | S | | |
| EX-1 | 7-30-25 | 1310 | G | Water | N | N | X | Y | X | X | X | X | 10 | |
| FDUP-01-GW | | — | G | Water | N | N | X | X | X | X | X | X | 10 | |
| MW-10 | | 1340 | G | Water | N | N | X | X | X | X | X | X | 10 | |
| MW-1B | | 1055 | G | Water | N | N | X | X | X | X | Y | X | 10 | |
| MW-1C | | 1115 | G | Water | N | Y | X | X | X | X | X | X | 10 | |
| TRIP BLANK | | — | — | Water | N | N | — | X | — | — | — | — | 2 | |
| MS | | 1115 | G | Water | N | Y | X | X | X | — | X | X | 9 | |
| MSD | | 1115 | G | Water | N | Y | X | X | X | — | Y | X | 9 | |

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

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

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

Special Instructions/QC Requirements:

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

| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|---|
| 1 | Al Pleva | 7/30/2025 1800 | Terra Nova | | 7.31.25 900 | TAB |
| 2 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| 3 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.0 3.4 ICE |
|---|---|---|

Ver: 10/10/2024

# Cortese LF Field Data

**Date:** July 2025 **Attn:** Ryan VanDette

| Sampl ID | TOC DTW (ft) | TD (ft) | TOC elev (ft) | GW elev (FT) | Temp °C | pH | Sp Cond um/cm | D.O. ppm | Turb NTU | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-1B | 18.35 | 43.1 | | | 11.5 | 5.08 | 381 | 1.78 | 2.0 | |
| MW-1C | 17.76 | 25.5 | | | 11.4 | 5.95 | 426 | 0.69 | 10 | |
| MW-10 | 19.66 | 29.2 | | | 14.2 | 5.50 | 484 | 0.54 | 14 | |
| EX-1 | 23.42 | 32.4 | | | 12.0 | 6.12 | 450 | 0.32 | 9.9 | |

# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 480-231442-1

**Login Number: 231442**
**List Number: 1**
**Creator: Yeager, Brian A**

**List Source: Eurofins Buffalo**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 3.0,3.4 ICE IR# SC |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time (Excluding tests with immediate HTs).. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | True | Terra Nova |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | True | |
| Chlorine Residual checked. | N/A | |

eurofins | Environment Testing

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ted Wilson
Geosyntec Consultants Inc
10211 Wincopin Circle
4th Floor
Columbia, Maryland 21044

Generated 10/31/2025 3:14:44 PM

## JOB DESCRIPTION

Cortese Landfill - Annual Surface Water
Annual SW - Fall (10)

## JOB NUMBER

480-233897-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.





myEOL

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

## Authorization



Generated
10/31/2025 3:14:44 PM

Authorized for release by
Ryan VanDette, Project Manager II
Ryan.VanDette@et.eurofinsus.com
(716)504-9830

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# Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 480-233897-1
Project/Site: Cortese Landfill - Annual Surface Water

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

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

## Job ID: 480-233897-1 Eurofins Buffalo

**Job Narrative**
**480-233897-1**

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

**Receipt**
The samples were received on 10/24/2025 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C.

**GC/MS VOA**
Method 8260C: The continuing calibration verification (CCV) associated with batch 760901 recovered above the upper control limit for Chlorodibromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are:SW-DRU (480-233897-1), SW-12 (480-233897-2), FDUP-01-SW (480-233897-3) and TRIP BLANK 3 (480-233897-4).

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-760901 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are:SW-12 (480-233897-2[MS]) and SW-12 (480-233897-2[MSD]).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-760901 recovered outside control limits for the following analytes: Bromoform. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The associated samples are:SW-DRU (480-233897-1), SW-12 (480-233897-2), FDUP-01-SW (480-233897-3) and TRIP BLANK 3 (480-233897-4).

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

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

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

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

# Detection Summary

Client: Geosyntec Consultants Inc
Job ID: 480-233897-1
Project/Site: Cortese Landfill - Annual Surface Water

## Client Sample ID: SW-DRU
## Lab Sample ID: 480-233897-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Iron | 0.12 | J | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 0.015 | B | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |

## Client Sample ID: SW-12
## Lab Sample ID: 480-233897-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Iron | 0.19 | | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 0.067 | B | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |

## Client Sample ID: FDUP-01-SW
## Lab Sample ID: 480-233897-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Iron | 0.15 | | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 0.055 | B | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |

## Client Sample ID: TRIP BLANK 3
## Lab Sample ID: 480-233897-4

No Detections.

This Detection Summary does not include radiochemical test results.

## Client Sample ID: SW-DRU
**Lab Sample ID: 480-233897-1**

**Date Collected: 10/23/25 10:30**
**Matrix: Water**

**Date Received: 10/24/25 10:00**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 06:09 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 06:09 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 06:09 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 10/28/25 06:09 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 06:09 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 10/28/25 06:09 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 06:09 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 06:09 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 10/28/25 06:09 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 10/28/25 06:09 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 06:09 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 06:09 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 06:09 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 06:09 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 10/28/25 06:09 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 06:09 | 1 |
| Bromoform | ND | *+ | 5.0 | 0.26 | ug/L | | | 10/28/25 06:09 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 06:09 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 06:09 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 06:09 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 10/28/25 06:09 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 06:09 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 06:09 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 06:09 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 06:09 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 06:09 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 06:09 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 06:09 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 06:09 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 06:09 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 06:09 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 06:09 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 06:09 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 06:09 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 06:09 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 06:09 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 06:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *77 - 120* | | *10/28/25 06:09* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *80 - 120* | | *10/28/25 06:09* | *1* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *73 - 120* | | *10/28/25 06:09* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *75 - 123* | | *10/28/25 06:09* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:27 | 10/30/25 14:46 | 1 |
| **Iron** | **0.12** | **J** | 0.15 | 0.019 | mg/L | | 10/30/25 09:27 | 10/30/25 14:46 | 1 |
| **Manganese** | **0.015** | **B** | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:27 | 10/30/25 14:46 | 1 |

# Client Sample Results

Client: Geosyntec Consultants Inc
Job ID: 480-233897-1
Project/Site: Cortese Landfill - Annual Surface Water

**Client Sample ID: SW-DRU**
**Lab Sample ID: 480-233897-1**
**Date Collected: 10/23/25 10:30**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids (SM 2540D) | ND | | 4.0 | 4.0 | mg/L | | | 10/29/25 16:01 | 1 |

## Client Sample ID: SW-12
**Date Collected: 10/23/25 10:40**
**Date Received: 10/24/25 10:00**

## Lab Sample ID: 480-233897-2
**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 06:31 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 06:31 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 06:31 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 10/28/25 06:31 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 06:31 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 10/28/25 06:31 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 06:31 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 06:31 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 10/28/25 06:31 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 10/28/25 06:31 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 06:31 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 06:31 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 06:31 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 06:31 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 10/28/25 06:31 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 06:31 | 1 |
| Bromoform | ND | F1 *+ | 5.0 | 0.26 | ug/L | | | 10/28/25 06:31 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 06:31 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 06:31 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 06:31 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 10/28/25 06:31 | 1 |
| Dibromochloromethane | ND | F1 | 5.0 | 0.32 | ug/L | | | 10/28/25 06:31 | 1 |
| Chloroethane | ND | F2 | 5.0 | 0.32 | ug/L | | | 10/28/25 06:31 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 06:31 | 1 |
| Chloromethane | ND | F2 | 5.0 | 0.35 | ug/L | | | 10/28/25 06:31 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 06:31 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 06:31 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 06:31 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 06:31 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 06:31 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 06:31 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 06:31 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 06:31 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 06:31 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 06:31 | 1 |
| Vinyl chloride | ND | F2 | 5.0 | 0.90 | ug/L | | | 10/28/25 06:31 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 06:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *77 - 120* | | *10/28/25 06:31* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *80 - 120* | | *10/28/25 06:31* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *73 - 120* | | *10/28/25 06:31* | *1* |
| *Dibromofluoromethane (Surr)* | *98* | | *75 - 123* | | *10/28/25 06:31* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:27 | 10/30/25 14:48 | 1 |
| **Iron** | **0.19** | | 0.15 | 0.019 | mg/L | | 10/30/25 09:27 | 10/30/25 14:48 | 1 |
| **Manganese** | **0.067** | **B** | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:27 | 10/30/25 14:48 | 1 |

# Client Sample Results

Client: Geosyntec Consultants Inc
Job ID: 480-233897-1
Project/Site: Cortese Landfill - Annual Surface Water

**Client Sample ID: SW-12**
**Lab Sample ID: 480-233897-2**
**Date Collected: 10/23/25 10:40**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids (SM 2540D) | ND | | 4.0 | 4.0 | mg/L | | | 10/29/25 16:01 | 1 |

## Client Sample ID: FDUP-01-SW
**Lab Sample ID: 480-233897-3**

**Date Collected: 10/23/25 10:00**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 06:54 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 06:54 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 06:54 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 10/28/25 06:54 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 06:54 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 10/28/25 06:54 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 06:54 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 06:54 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 10/28/25 06:54 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 10/28/25 06:54 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 06:54 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 06:54 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 06:54 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 06:54 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 10/28/25 06:54 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 06:54 | 1 |
| Bromoform | ND | *+ | 5.0 | 0.26 | ug/L | | | 10/28/25 06:54 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 06:54 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 06:54 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 06:54 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 10/28/25 06:54 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 06:54 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 06:54 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 06:54 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 06:54 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 06:54 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 06:54 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 06:54 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 06:54 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 06:54 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 06:54 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 06:54 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 06:54 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 06:54 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 06:54 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 06:54 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 06:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *77 - 120* | | *10/28/25 06:54* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *80 - 120* | | *10/28/25 06:54* | *1* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *73 - 120* | | *10/28/25 06:54* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *75 - 123* | | *10/28/25 06:54* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:27 | 10/30/25 15:09 | 1 |
| **Iron** | **0.15** | | 0.15 | 0.019 | mg/L | | 10/30/25 09:27 | 10/30/25 15:09 | 1 |
| **Manganese** | **0.055** | **B** | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:27 | 10/30/25 15:09 | 1 |

# Client Sample Results

Client: Geosyntec Consultants Inc
Job ID: 480-233897-1
Project/Site: Cortese Landfill - Annual Surface Water

## Client Sample ID: FDUP-01-SW
**Lab Sample ID: 480-233897-3**

**Date Collected: 10/23/25 10:00**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids (SM 2540D) | ND | | 4.0 | 4.0 | mg/L | | | 10/29/25 16:01 | 1 |

Client: Geosyntec Consultants Inc
Job ID: 480-233897-1
Project/Site: Cortese Landfill - Annual Surface Water

## Client Sample ID: TRIP BLANK 3
**Lab Sample ID: 480-233897-4**

**Date Collected: 10/23/25 00:00**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 07:16 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 07:16 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 07:16 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 10/28/25 07:16 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 07:16 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 10/28/25 07:16 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 07:16 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 07:16 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 10/28/25 07:16 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 10/28/25 07:16 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 07:16 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 07:16 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 07:16 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 07:16 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 10/28/25 07:16 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 07:16 | 1 |
| Bromoform | ND | *+ | 5.0 | 0.26 | ug/L | | | 10/28/25 07:16 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 07:16 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 07:16 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 07:16 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 10/28/25 07:16 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 07:16 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 07:16 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 07:16 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 07:16 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 07:16 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 07:16 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 07:16 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 07:16 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 07:16 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 07:16 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 07:16 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 07:16 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 07:16 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 07:16 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 07:16 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 07:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *77 - 120* | | *10/28/25 07:16* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *80 - 120* | | *10/28/25 07:16* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *73 - 120* | | *10/28/25 07:16* | *1* |
| *Dibromofluoromethane (Surr)* | *100* | | *75 - 123* | | *10/28/25 07:16* | *1* |

# Surrogate Summary

Client: Geosyntec Consultants Inc
Job ID: 480-233897-1
Project/Site: Cortese Landfill - Annual Surface Water

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

### Matrix: Ground Water

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | TOL | BFB | DBFM |
| Lab Sample ID | Client Sample ID | (77-120) | (80-120) | (73-120) | (75-123) |
| 480-233897-4 | TRIP BLANK 3 | 103 | 95 | 99 | 100 |

**Surrogate Legend**

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

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

### Matrix: Water

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | TOL | BFB | DBFM |
| Lab Sample ID | Client Sample ID | (77-120) | (80-120) | (73-120) | (75-123) |
| 480-233897-1 | SW-DRU | 100 | 96 | 102 | 96 |
| 480-233897-2 | SW-12 | 103 | 95 | 101 | 98 |
| 480-233897-2 MS | SW-12 | 103 | 92 | 97 | 97 |
| 480-233897-2 MSD | SW-12 | 104 | 93 | 98 | 98 |
| 480-233897-3 | FDUP-01-SW | 99 | 94 | 105 | 92 |
| LCS 480-760901/6 | Lab Control Sample | 103 | 92 | 98 | 101 |
| MB 480-760901/8 | Method Blank | 99 | 94 | 102 | 99 |

**Surrogate Legend**

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

Client: Geosyntec Consultants Inc
Job ID: 480-233897-1
Project/Site: Cortese Landfill - Annual Surface Water

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

**Lab Sample ID: MB 480-760901/8**
**Matrix: Water**
**Analysis Batch: 760901**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 02:04 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 02:04 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 02:04 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 10/28/25 02:04 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 02:04 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 10/28/25 02:04 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 02:04 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 02:04 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 10/28/25 02:04 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 10/28/25 02:04 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 02:04 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 02:04 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 02:04 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 02:04 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 10/28/25 02:04 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 02:04 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 02:04 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 02:04 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 02:04 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 02:04 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 10/28/25 02:04 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 02:04 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 02:04 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 02:04 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 02:04 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 02:04 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 02:04 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 02:04 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 02:04 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 02:04 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 02:04 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 02:04 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 02:04 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 02:04 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 02:04 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 02:04 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 02:04 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *77 - 120* | | *10/28/25 02:04* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *80 - 120* | | *10/28/25 02:04* | *1* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *73 - 120* | | *10/28/25 02:04* | *1* |
| *Dibromofluoromethane (Surr)* | *99* | | *75 - 123* | | *10/28/25 02:04* | *1* |

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

**Lab Sample ID: LCS 480-760901/6**
**Matrix: Water**
**Analysis Batch: 760901**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 25.0 | 25.7 | | ug/L | | 103 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 26.6 | | ug/L | | 106 | 70 - 126 |
| 1,1,2-Trichloroethane | 25.0 | 26.0 | | ug/L | | 104 | 76 - 122 |
| 1,1-Dichloroethane | 25.0 | 25.9 | | ug/L | | 104 | 71 - 129 |
| 1,1-Dichloroethene | 25.0 | 24.6 | | ug/L | | 98 | 58 - 121 |
| 1,2-Dichlorobenzene | 25.0 | 25.5 | | ug/L | | 102 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 27.9 | | ug/L | | 112 | 75 - 127 |
| 1,2-Dichloropropane | 25.0 | 27.2 | | ug/L | | 109 | 76 - 120 |
| 1,3-Dichlorobenzene | 25.0 | 26.3 | | ug/L | | 105 | 77 - 120 |
| 1,4-Dichlorobenzene | 25.0 | 25.2 | | ug/L | | 101 | 75 - 120 |
| 2-Hexanone | 125 | 134 | | ug/L | | 107 | 65 - 127 |
| 2-Butanone (MEK) | 125 | 154 | | ug/L | | 123 | 57 - 140 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 120 | | ug/L | | 96 | 71 - 125 |
| Acetone | 125 | 132 | | ug/L | | 106 | 56 - 142 |
| Benzene | 25.0 | 26.2 | | ug/L | | 105 | 71 - 124 |
| Bromodichloromethane | 25.0 | 29.3 | | ug/L | | 117 | 80 - 122 |
| Bromoform | 25.0 | 32.4 | *+ | ug/L | | 130 | 66 - 128 |
| Bromomethane | 25.0 | 20.0 | | ug/L | | 80 | 55 - 144 |
| Carbon disulfide | 25.0 | 23.6 | | ug/L | | 94 | 59 - 134 |
| Carbon tetrachloride | 25.0 | 26.5 | | ug/L | | 106 | 72 - 134 |
| Chlorobenzene | 25.0 | 25.9 | | ug/L | | 103 | 72 - 120 |
| Dibromochloromethane | 25.0 | 30.7 | | ug/L | | 123 | 75 - 125 |
| Chloroethane | 25.0 | 20.7 | | ug/L | | 83 | 69 - 136 |
| Chloroform | 25.0 | 24.0 | | ug/L | | 96 | 73 - 127 |
| Chloromethane | 25.0 | 23.4 | | ug/L | | 94 | 68 - 124 |
| cis-1,2-Dichloroethene | 25.0 | 23.6 | | ug/L | | 95 | 74 - 124 |
| cis-1,3-Dichloropropene | 25.0 | 28.3 | | ug/L | | 113 | 74 - 124 |
| Ethylbenzene | 25.0 | 25.5 | | ug/L | | 102 | 77 - 123 |
| Methylene Chloride | 25.0 | 24.8 | | ug/L | | 99 | 57 - 132 |
| Styrene | 25.0 | 25.2 | | ug/L | | 101 | 70 - 130 |
| Tetrachloroethene | 25.0 | 26.6 | | ug/L | | 106 | 74 - 122 |
| Toluene | 25.0 | 24.2 | | ug/L | | 97 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 23.3 | | ug/L | | 93 | 73 - 127 |
| trans-1,3-Dichloropropene | 25.0 | 27.0 | | ug/L | | 108 | 72 - 123 |
| Trichloroethene | 25.0 | 27.5 | | ug/L | | 110 | 74 - 123 |
| Vinyl chloride | 25.0 | 21.4 | | ug/L | | 86 | 65 - 133 |
| Xylenes, Total | 50.0 | 49.3 | | ug/L | | 99 | 76 - 122 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *77 - 120* |
| *Toluene-d8 (Surr)* | *92* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *73 - 120* |
| *Dibromofluoromethane (Surr)* | *101* | | *75 - 123* |

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

**Lab Sample ID: 480-233897-2 MS**
**Matrix: Water**
**Analysis Batch: 760901**

**Client Sample ID: SW-12**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 25.0 | 26.0 | | ug/L | | 104 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | ND | | 25.0 | 28.6 | | ug/L | | 114 | 76 - 120 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 26.7 | | ug/L | | 107 | 76 - 122 |
| 1,1-Dichloroethane | ND | | 25.0 | 26.9 | | ug/L | | 108 | 77 - 120 |
| 1,1-Dichloroethene | ND | | 25.0 | 24.2 | | ug/L | | 97 | 66 - 127 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 26.8 | | ug/L | | 107 | 80 - 124 |
| 1,2-Dichloroethane | ND | | 25.0 | 29.1 | | ug/L | | 116 | 75 - 120 |
| 1,2-Dichloropropane | ND | | 25.0 | 29.2 | | ug/L | | 117 | 76 - 120 |
| 1,3-Dichlorobenzene | ND | | 25.0 | 28.6 | | ug/L | | 114 | 77 - 120 |
| 1,4-Dichlorobenzene | ND | | 25.0 | 27.6 | | ug/L | | 110 | 78 - 124 |
| 2-Hexanone | ND | | 125 | 138 | | ug/L | | 111 | 65 - 127 |
| 2-Butanone (MEK) | ND | | 125 | 160 | | ug/L | | 128 | 57 - 140 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 125 | 122 | | ug/L | | 98 | 71 - 125 |
| Acetone | ND | | 125 | 129 | | ug/L | | 103 | 56 - 142 |
| Benzene | ND | | 25.0 | 28.2 | | ug/L | | 113 | 71 - 124 |
| Bromodichloromethane | ND | | 25.0 | 30.2 | | ug/L | | 121 | 80 - 122 |
| Bromoform | ND | F1 *+ | 25.0 | 33.4 | F1 | ug/L | | 134 | 61 - 132 |
| Bromomethane | ND | | 25.0 | 21.6 | | ug/L | | 86 | 55 - 144 |
| Carbon disulfide | ND | | 25.0 | 23.1 | | ug/L | | 92 | 59 - 134 |
| Carbon tetrachloride | ND | | 25.0 | 27.0 | | ug/L | | 108 | 72 - 134 |
| Chlorobenzene | ND | | 25.0 | 27.9 | | ug/L | | 112 | 80 - 120 |
| Dibromochloromethane | ND | F1 | 25.0 | 31.4 | F1 | ug/L | | 126 | 75 - 125 |
| Chloroethane | ND | F2 | 25.0 | 23.0 | | ug/L | | 92 | 69 - 136 |
| Chloroform | ND | | 25.0 | 25.3 | | ug/L | | 101 | 73 - 127 |
| Chloromethane | ND | F2 | 25.0 | 27.8 | | ug/L | | 111 | 68 - 124 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 25.1 | | ug/L | | 101 | 74 - 124 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 29.5 | | ug/L | | 118 | 74 - 124 |
| Ethylbenzene | ND | | 25.0 | 27.4 | | ug/L | | 109 | 77 - 123 |
| Methylene Chloride | ND | | 25.0 | 24.5 | | ug/L | | 98 | 75 - 124 |
| Styrene | ND | | 25.0 | 26.5 | | ug/L | | 106 | 80 - 120 |
| Tetrachloroethene | ND | | 25.0 | 28.3 | | ug/L | | 113 | 74 - 122 |
| Toluene | ND | | 25.0 | 26.4 | | ug/L | | 106 | 80 - 122 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 23.3 | | ug/L | | 93 | 73 - 127 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 27.1 | | ug/L | | 109 | 80 - 120 |
| Trichloroethene | ND | | 25.0 | 29.3 | | ug/L | | 117 | 74 - 123 |
| Vinyl chloride | ND | F2 | 25.0 | 24.2 | | ug/L | | 97 | 65 - 133 |
| Xylenes, Total | ND | | 50.0 | 51.8 | | ug/L | | 104 | 76 - 122 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *77 - 120* |
| *Toluene-d8 (Surr)* | *92* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *73 - 120* |
| *Dibromofluoromethane (Surr)* | *97* | | *75 - 123* |

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

**Lab Sample ID: 480-233897-2 MSD**
**Matrix: Water**
**Analysis Batch: 760901**

**Client Sample ID: SW-12**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 25.0 | 25.5 | | ug/L | | 102 | 73 - 126 | 2 | 15 |
| 1,1,2,2-Tetrachloroethane | ND | | 25.0 | 26.0 | | ug/L | | 104 | 76 - 120 | 9 | 15 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 27.0 | | ug/L | | 108 | 76 - 122 | 1 | 15 |
| 1,1-Dichloroethane | ND | | 25.0 | 26.5 | | ug/L | | 106 | 77 - 120 | 2 | 20 |
| 1,1-Dichloroethene | ND | | 25.0 | 23.4 | | ug/L | | 94 | 66 - 127 | 3 | 16 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 25.6 | | ug/L | | 103 | 80 - 124 | 5 | 20 |
| 1,2-Dichloroethane | ND | | 25.0 | 28.5 | | ug/L | | 114 | 75 - 120 | 2 | 20 |
| 1,2-Dichloropropane | ND | | 25.0 | 28.3 | | ug/L | | 113 | 76 - 120 | 3 | 20 |
| 1,3-Dichlorobenzene | ND | | 25.0 | 26.9 | | ug/L | | 107 | 77 - 120 | 6 | 20 |
| 1,4-Dichlorobenzene | ND | | 25.0 | 25.4 | | ug/L | | 102 | 78 - 124 | 8 | 20 |
| 2-Hexanone | ND | | 125 | 131 | | ug/L | | 105 | 65 - 127 | 5 | 15 |
| 2-Butanone (MEK) | ND | | 125 | 152 | | ug/L | | 121 | 57 - 140 | 5 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 125 | 118 | | ug/L | | 94 | 71 - 125 | 4 | 35 |
| Acetone | ND | | 125 | 126 | | ug/L | | 100 | 56 - 142 | 2 | 15 |
| Benzene | ND | | 25.0 | 27.5 | | ug/L | | 110 | 71 - 124 | 2 | 13 |
| Bromodichloromethane | ND | | 25.0 | 30.6 | | ug/L | | 122 | 80 - 122 | 1 | 15 |
| Bromoform | ND | F1 *+ | 25.0 | 32.2 | | ug/L | | 129 | 61 - 132 | 4 | 15 |
| Bromomethane | ND | | 25.0 | 18.9 | | ug/L | | 75 | 55 - 144 | 13 | 15 |
| Carbon disulfide | ND | | 25.0 | 22.5 | | ug/L | | 90 | 59 - 134 | 3 | 15 |
| Carbon tetrachloride | ND | | 25.0 | 26.9 | | ug/L | | 108 | 72 - 134 | 0 | 15 |
| Chlorobenzene | ND | | 25.0 | 27.4 | | ug/L | | 110 | 80 - 120 | 2 | 25 |
| Dibromochloromethane | ND | F1 | 25.0 | 32.1 | F1 | ug/L | | 129 | 75 - 125 | 2 | 15 |
| Chloroethane | ND | F2 | 25.0 | 18.6 | F2 | ug/L | | 74 | 69 - 136 | 21 | 15 |
| Chloroform | ND | | 25.0 | 24.4 | | ug/L | | 98 | 73 - 127 | 3 | 20 |
| Chloromethane | ND | F2 | 25.0 | 22.7 | F2 | ug/L | | 91 | 68 - 124 | 21 | 15 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 24.8 | | ug/L | | 99 | 74 - 124 | 1 | 15 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 29.4 | | ug/L | | 117 | 74 - 124 | 0 | 15 |
| Ethylbenzene | ND | | 25.0 | 27.5 | | ug/L | | 110 | 77 - 123 | 0 | 15 |
| Methylene Chloride | ND | | 25.0 | 23.4 | | ug/L | | 94 | 75 - 124 | 5 | 15 |
| Styrene | ND | | 25.0 | 26.4 | | ug/L | | 105 | 80 - 120 | 0 | 20 |
| Tetrachloroethene | ND | | 25.0 | 29.3 | | ug/L | | 117 | 74 - 122 | 4 | 20 |
| Toluene | ND | | 25.0 | 26.5 | | ug/L | | 106 | 80 - 122 | 0 | 15 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 23.3 | | ug/L | | 93 | 73 - 127 | 0 | 20 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 27.0 | | ug/L | | 108 | 80 - 120 | 1 | 15 |
| Trichloroethene | ND | | 25.0 | 28.4 | | ug/L | | 114 | 74 - 123 | 3 | 16 |
| Vinyl chloride | ND | F2 | 25.0 | 20.3 | F2 | ug/L | | 81 | 65 - 133 | 17 | 15 |
| Xylenes, Total | ND | | 50.0 | 51.6 | | ug/L | | 103 | 76 - 122 | 0 | 16 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *77 - 120* |
| *Toluene-d8 (Surr)* | *93* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *73 - 120* |
| *Dibromofluoromethane (Surr)* | *98* | | *75 - 123* |

## Method: EPA 6010D - Metals (ICP)

**Lab Sample ID: MB 480-760832/1-A**
**Matrix: Water**
**Analysis Batch: 761252**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 760832**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:27 | 10/30/25 14:36 | 1 |
| Iron | ND | | 0.15 | 0.019 | mg/L | | 10/30/25 09:27 | 10/30/25 14:36 | 1 |
| Manganese | 0.000419 | J | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:27 | 10/30/25 14:36 | 1 |

**Lab Sample ID: LCS 480-760832/2-A**
**Matrix: Water**
**Analysis Batch: 761252**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 760832**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 1.00 | 1.06 | | mg/L | | 106 | 80 - 120 |
| Iron | 5.10 | 5.72 | | mg/L | | 112 | 80 - 120 |
| Manganese | 0.498 | 0.509 | | mg/L | | 102 | 80 - 120 |

**Lab Sample ID: 480-233897-2 MS**
**Matrix: Water**
**Analysis Batch: 761252**

**Client Sample ID: SW-12**
**Prep Type: Total/NA**
**Prep Batch: 760832**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 1.00 | 1.06 | | mg/L | | 106 | 75 - 125 |
| Iron | 0.19 | | 5.10 | 5.83 | | mg/L | | 111 | 75 - 125 |
| Manganese | 0.067 | B | 0.498 | 0.576 | | mg/L | | 102 | 75 - 125 |

**Lab Sample ID: 480-233897-2 MSD**
**Matrix: Water**
**Analysis Batch: 761252**

**Client Sample ID: SW-12**
**Prep Type: Total/NA**
**Prep Batch: 760832**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 1.00 | 1.06 | | mg/L | | 106 | 75 - 125 | 0 | 20 |
| Iron | 0.19 | | 5.10 | 5.64 | | mg/L | | 107 | 75 - 125 | 3 | 20 |
| Manganese | 0.067 | B | 0.498 | 0.579 | | mg/L | | 103 | 75 - 125 | 0 | 20 |

## Method: SM 2540D - Solids, Total Suspended (TSS)

**Lab Sample ID: MB 480-761125/1**
**Matrix: Water**
**Analysis Batch: 761125**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids | ND | | 1.0 | 1.0 | mg/L | | | 10/29/25 16:01 | 1 |

**Lab Sample ID: LCS 480-761125/2**
**Matrix: Water**
**Analysis Batch: 761125**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Total Suspended Solids | 252 | 253.2 | | mg/L | | 100 | 88 - 110 |

# QC Association Summary

Client: Geosyntec Consultants Inc
Job ID: 480-233897-1
Project/Site: Cortese Landfill - Annual Surface Water

## GC/MS VOA

### Analysis Batch: 760901

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233897-1 | SW-DRU | Total/NA | Water | 8260C | |
| 480-233897-2 | SW-12 | Total/NA | Water | 8260C | |
| 480-233897-3 | FDUP-01-SW | Total/NA | Water | 8260C | |
| 480-233897-4 | TRIP BLANK 3 | Total/NA | Ground Water | 8260C | |
| MB 480-760901/8 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-760901/6 | Lab Control Sample | Total/NA | Water | 8260C | |
| 480-233897-2 MS | SW-12 | Total/NA | Water | 8260C | |
| 480-233897-2 MSD | SW-12 | Total/NA | Water | 8260C | |

## Metals

### Prep Batch: 760832

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233897-1 | SW-DRU | Total/NA | Water | 3005A_ASP | |
| 480-233897-2 | SW-12 | Total/NA | Water | 3005A_ASP | |
| 480-233897-3 | FDUP-01-SW | Total/NA | Water | 3005A_ASP | |
| MB 480-760832/1-A | Method Blank | Total/NA | Water | 3005A_ASP | |
| LCS 480-760832/2-A | Lab Control Sample | Total/NA | Water | 3005A_ASP | |
| 480-233897-2 MS | SW-12 | Total/NA | Water | 3005A_ASP | |
| 480-233897-2 MSD | SW-12 | Total/NA | Water | 3005A_ASP | |

### Analysis Batch: 761252

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233897-1 | SW-DRU | Total/NA | Water | EPA 6010D | 760832 |
| 480-233897-2 | SW-12 | Total/NA | Water | EPA 6010D | 760832 |
| 480-233897-3 | FDUP-01-SW | Total/NA | Water | EPA 6010D | 760832 |
| MB 480-760832/1-A | Method Blank | Total/NA | Water | EPA 6010D | 760832 |
| LCS 480-760832/2-A | Lab Control Sample | Total/NA | Water | EPA 6010D | 760832 |
| 480-233897-2 MS | SW-12 | Total/NA | Water | EPA 6010D | 760832 |
| 480-233897-2 MSD | SW-12 | Total/NA | Water | EPA 6010D | 760832 |

## General Chemistry

### Analysis Batch: 761125

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233897-1 | SW-DRU | Total/NA | Water | SM 2540D | |
| 480-233897-2 | SW-12 | Total/NA | Water | SM 2540D | |
| 480-233897-3 | FDUP-01-SW | Total/NA | Water | SM 2540D | |
| MB 480-761125/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 480-761125/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |

# Lab Chronicle

Client: Geosyntec Consultants Inc
Job ID: 480-233897-1
Project/Site: Cortese Landfill - Annual Surface Water

## Client Sample ID: SW-DRU
**Lab Sample ID: 480-233897-1**
**Date Collected: 10/23/25 10:30**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760901 | ATG | EET BUF | 10/28/25 06:09 |
| Total/NA | Prep | 3005A_ASP | | | 760832 | EMO | EET BUF | 10/30/25 09:27 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761252 | MP | EET BUF | 10/30/25 14:46 |
| Total/NA | Analysis | SM 2540D | | 1 | 761125 | ET | EET BUF | 10/29/25 16:01 |

## Client Sample ID: SW-12
**Lab Sample ID: 480-233897-2**
**Date Collected: 10/23/25 10:40**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760901 | ATG | EET BUF | 10/28/25 06:31 |
| Total/NA | Prep | 3005A_ASP | | | 760832 | EMO | EET BUF | 10/30/25 09:27 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761252 | MP | EET BUF | 10/30/25 14:48 |
| Total/NA | Analysis | SM 2540D | | 1 | 761125 | ET | EET BUF | 10/29/25 16:01 |

## Client Sample ID: FDUP-01-SW
**Lab Sample ID: 480-233897-3**
**Date Collected: 10/23/25 10:00**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760901 | ATG | EET BUF | 10/28/25 06:54 |
| Total/NA | Prep | 3005A_ASP | | | 760832 | EMO | EET BUF | 10/30/25 09:27 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761252 | MP | EET BUF | 10/30/25 15:09 |
| Total/NA | Analysis | SM 2540D | | 1 | 761125 | ET | EET BUF | 10/29/25 16:01 |

## Client Sample ID: TRIP BLANK 3
**Lab Sample ID: 480-233897-4**
**Date Collected: 10/23/25 00:00**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760901 | ATG | EET BUF | 10/28/25 07:16 |

**Laboratory References:**
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Job ID: 480-233897-1
Project/Site: Cortese Landfill - Annual Surface Water

## Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| New York | NELAP | 10026 | 03-31-26 |

# Method Summary

Client: Geosyntec Consultants Inc
Job ID: 480-233897-1
Project/Site: Cortese Landfill - Annual Surface Water

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | EET BUF |
| EPA 6010D | Metals (ICP) | SW846 | EET BUF |
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET BUF |
| 3005A_ASP | Preparation, Total Metals | SW846 | EET BUF |
| 5030C | Purge and Trap | SW846 | EET BUF |

**Protocol References:**

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

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

**Laboratory References:**

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

# Sample Summary

Client: Geosyntec Consultants Inc
Job ID: 480-233897-1
Project/Site: Cortese Landfill - Annual Surface Water

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Sample Origin |
|---|---|---|---|---|---|
| 480-233897-1 | SW-DRU | Water | 10/23/25 10:30 | 10/24/25 10:00 | New York |
| 480-233897-2 | SW-12 | Water | 10/23/25 10:40 | 10/24/25 10:00 | New York |
| 480-233897-3 | FDUP-01-SW | Water | 10/23/25 10:00 | 10/24/25 10:00 | New York |
| 480-233897-4 | TRIP BLANK 3 | Ground Water | 10/23/25 00:00 | 10/24/25 10:00 | New York |

# Quantitation Limit Exceptions Summary

Client: Geosyntec Consultants Inc
Job ID: 480-233897-1
Project/Site: Cortese Landfill - Annual Surface Water

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

| Method | Analyte | Matrix | Prep Type | Unit | Client RL | Lab PQL |
|---|---|---|---|---|---|---|
| 8260C | 2-Butanone (MEK) | Ground Water | Total/NA | ug/L | 5.0 | 10 |
| 8260C | 2-Butanone (MEK) | Water | Total/NA | ug/L | 5.0 | 10 |
| EPA 6010D | Arsenic | Water | Total/NA | mg/L | 0.010 | 0.015 |

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

| Client Information | Sampler: Al Pleva | Lab PM: VanDette, Ryan T | Carrier Tracking No(s): | COC No: 480-208036-17462.1 |
|---|---|---|---|---|
| Client Contact: Mr. Al Pleva | Phone: | E-Mail: Ryan.VanDette@et.eurofinsus.com | State of Origin: | Page: Page 1 of 1 |
| Company: Terra Nova | PWSID: | Analysis Requested | | Job #: |
| Address: 7 Probasco Drive | Due Date Requested: | | | Preservation Codes: D - HNO3 A - HCL N - None |
| City: Allentown | TAT Requested (days): | | | |
| State, Zip: NJ, 08501 | Compliance Project: Δ Yes Δ No | | | |
| Phone: 850-483-5104(Tel) | PO #: 125001103 | | | |
| Email: terranovanj@aol.com | WO #: 7666 | | | Other: |
| Project Name: Cortese Landfill Site/NY06 Event Desc: Annual SW - Fall (10) | Project #: 48002953 | | | |
| Site: New York | SSOW#: | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6010C - Total Metals ICP | 8260C - Volatiles | 2540D - Total Suspended Solids | Number of containers |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | D | A | N | |
| SW-DRU | 10-23-25 | 1030 | G | Water | N | N | X | X | X | |
| SW-12 | 10-23-25 | 1040 | G | Water | N | N | X | X | X | |
| FDUP-01-SW | 10-23-25 | 1040 | G | Water | N | N | X | X | X | |
| MS | 10-23-25 | 1040 | G | Water | N | N | X | X | - | 4 |
| MSD | 10-23-25 | 1040 | G | Water | N | N | X | X | - | 4 |
| TRIP BLANK 3 | 10-23-25 | — | — | Water | N | N | - | X | - | 3 |

480-233897 Chain of Custody

| Possible Hazard Identification | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) |
|---|---|
| ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological | ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
| Deliverable Requested: I, II, III, IV, Other (specify) | Special Instructions/QC Requirements: |

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

| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|---|
| 1 | | 10/23/25 1800 | Terra Nova | C Wallace | 10/24/25 0900 | ENPO |
| 2 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| 3 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|
| | | 4.4 IR HSC |

Ver: 10/10/2024

# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 480-233897-1

**Login Number: 233897**
**List Number: 1**
**Creator: Stapleton, Kaitlyn**

**List Source: Eurofins Buffalo**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 4.4 IR#SC ice |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time (Excluding tests with immediate HTs).. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | True | Terra Nova |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | True | |
| Chlorine Residual checked. | N/A | |

eurofins | Environment Testing



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ted Wilson
Geosyntec Consultants Inc
10211 Wincopin Circle
4th Floor
Columbia, Maryland 21044

Generated 11/11/2025 8:46:45 AM

## JOB DESCRIPTION

Cortese Landfill - Semiannual Groundwater
Semi-Annual GW - Fall (10)

## JOB NUMBER

480-233913-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.



myEOL

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

## Authorization



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11/11/2025 8:46:45 AM

Authorized for release by
Ryan VanDette, Project Manager II
Ryan.VanDette@et.eurofinsus.com
(716)504-9830

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## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| F1 | MS and/or MSD recovery exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| *1 | LCS/LCSD RPD exceeds control limits. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| ^5- | Linear Range Check (LRC) is outside acceptance limits, low biased. |
| ^5+ | Linear Range Check (LRC) is outside acceptance limits, high biased. |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

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

## Glossary (Continued)

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## Job ID: 480-233913-1 Eurofins Buffalo

**Job Narrative**
**480-233913-1**

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

**Receipt**
The samples were received on 10/24/2025 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.6°C, 3.3°C and 3.9°C.

**GC/MS VOA**
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: EX-1 (480-233913-12). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-760950 recovered above the upper control limit for Chloromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:EX-1 (480-233913-12).

Method 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 480-760950. The following sample is impacted: EX-1 (480-233913-12).

Method 8260C: The results reported for the following sample do not concur with results previously reported for this site: MW-18B (480-233913-4). Reanalysis was performed, and the result(s) confirmed.

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

**Gasoline Range Organics**
Method 8015D_GRO: The following sample was diluted due to the abundance of target analytes: EX-1 (480-233913-12). 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.

**Diesel Range Organics**
Method 8015D_DRO: The laboratory control sample (LCS) for preparation batch 410-722355 and analytical batch 410-722889 recovered outside control limits for the following analytes: Diesel Range Organics [C10-C28]. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

**Metals**
Method 6010D: The linear range check (LRC) standard recovery associated with 480-761575 is outside the acceptance criteria for the following analytes: total Arsenic and Iron. 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.

**General Chemistry**
Method D516: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-761100 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are

## Job ID: 480-233913-1 (Continued) Eurofins Buffalo

suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method D516: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for analytical batch 480-761100 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

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

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

# Detection Summary

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-6A — Lab Sample ID: 480-233913-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 2.8 | J | 5.0 | 0.82 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 9.3 | | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 0.51 | J | 5.0 | 0.29 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 4.8 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichloroethane | 0.27 | J | 5.0 | 0.21 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 3.3 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 17 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 0.64 | J | 5.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 12 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| Chloroform | 0.87 | J | 5.0 | 0.34 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 41 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Tetrachloroethene | 3.9 | J | 5.0 | 0.36 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 87 | | 5.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| Vinyl chloride | 4.1 | J | 5.0 | 0.90 | ug/L | 1 | | 8260C | Total/NA |
| Iron | 0.047 | J ^5- | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 7.9 | | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |
| Alkalinity, Total | 129 | | 25.0 | 20.0 | mg/L | 5 | | 310.2 | Total/NA |
| Ammonia | 0.30 | F1 | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Sulfate | 19.0 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 4.1 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-6B — Lab Sample ID: 480-233913-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 1.0 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 1.3 | J | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Arsenic | 0.0090 | J | 0.010 | 0.0056 | mg/L | 1 | | EPA 6010D | Total/NA |
| Iron | 3.7 | | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 8.6 | | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |
| Alkalinity, Total | 48.7 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 0.97 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Sulfate | 11.1 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |

## Client Sample ID: MW-7M — Lab Sample ID: 480-233913-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 0.77 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 0.82 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 3.2 | J | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Iron | 0.034 | J | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 1.2 | | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |
| Alkalinity, Total | 67.2 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 1.4 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Sulfate | 9.4 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |

## Client Sample ID: MW-18B — Lab Sample ID: 480-233913-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 12 | | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 8.3 | | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichloroethane | 0.25 | J | 5.0 | 0.21 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 10 | | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: MW-18B (Continued)
## Lab Sample ID: 480-233913-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 26 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 3.0 | J | 5.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 72 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| Toluene | 0.83 | J | 5.0 | 0.51 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 0.47 | J | 5.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| Arsenic | 0.059 | | 0.010 | 0.0056 | mg/L | 1 | | EPA 6010D | Total/NA |
| Iron | 43.0 | | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 11.1 | | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |
| Alkalinity, Total | 85.6 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 1.1 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.022 | J | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 7.4 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 2.1 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-18C
## Lab Sample ID: 480-233913-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 2.1 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 2.2 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 2.9 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 6.8 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 9.8 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| Iron | 9.9 | | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 9.0 | | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |
| Alkalinity, Total | 31.8 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 0.78 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Sulfate | 9.7 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |

## Client Sample ID: MW-20A
## Lab Sample ID: 480-233913-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 3.8 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 1.1 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 4.1 | J | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 3.0 | J | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 1.2 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Tetrachloroethene | 0.72 | J | 5.0 | 0.36 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 0.78 | J | 5.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| Iron | 0.60 | | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 0.68 | | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |
| Alkalinity, Total | 91.9 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 0.21 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Sulfate | 11.9 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |

## Client Sample ID: MW-20B
## Lab Sample ID: 480-233913-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 5.1 | | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 5.4 | | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 6.0 | | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 17 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 1.6 | J | 5.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: MW-20B (Continued) — Lab Sample ID: 480-233913-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 36 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| Arsenic | 0.024 | | 0.010 | 0.0056 | mg/L | 1 | | EPA 6010D | Total/NA |
| Iron | 23.9 | | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 10.9 | | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |
| Alkalinity, Total | 72.0 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 3.0 | | 0.25 | 0.045 | mg/L | 5 | | 350.1 | Total/NA |
| Sulfate | 8.5 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 1.1 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-19 — Lab Sample ID: 480-233913-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 1.5 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 1.3 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 1.4 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 4.3 | J | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 6.8 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 3.0 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 0.52 | J | 5.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| Iron | 3.1 | | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 11.4 | | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |
| Alkalinity, Total | 57.1 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 0.29 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.023 | J | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 18.7 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |

## Client Sample ID: MW-21 — Lab Sample ID: 480-233913-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 4.1 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 3.5 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 3.4 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 15 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 0.60 | J | 5.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 6.3 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 0.91 | J | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 0.68 | J | 5.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| Iron | 2.3 | | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 1.4 | | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |
| Alkalinity, Total | 121 | | 25.0 | 20.0 | mg/L | 5 | | 310.2 | Total/NA |
| Ammonia | 3.4 | | 0.25 | 0.045 | mg/L | 5 | | 350.1 | Total/NA |
| Sulfate | 23.6 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 0.85 | J | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-22 — Lab Sample ID: 480-233913-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 1.6 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 1.0 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 1.3 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 4.2 | J | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 0.41 | J | 5.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: MW-22 (Continued) — Lab Sample ID: 480-233913-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 6.0 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| Arsenic | 0.021 | | 0.010 | 0.0056 | mg/L | 1 | | EPA 6010D | Total/NA |
| Iron | 8.4 | | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 9.9 | | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |
| Alkalinity, Total | 48.9 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 1.6 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Sulfate | 8.4 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |

## Client Sample ID: FDUP-02-GW — Lab Sample ID: 480-233913-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 1.5 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 0.98 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 1.2 | J | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 3.9 | J | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 5.5 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| Arsenic | 0.023 | | 0.010 | 0.0056 | mg/L | 1 | | EPA 6010D | Total/NA |
| Iron | 8.3 | | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 9.8 | | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |
| Alkalinity, Total | 51.8 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 1.6 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Sulfate | 8.4 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |

## Client Sample ID: EX-1 — Lab Sample ID: 480-233913-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 13 | J | 20 | 1.5 | ug/L | 4 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 31 | | 20 | 3.2 | ug/L | 4 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 25 | | 20 | 3.1 | ug/L | 4 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 110 | | 20 | 3.4 | ug/L | 4 | | 8260C | Total/NA |
| Benzene | 9.9 | J | 20 | 1.6 | ug/L | 4 | | 8260C | Total/NA |
| Chlorobenzene | 180 | | 20 | 3.0 | ug/L | 4 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 33 | | 4.0 | 3.2 | ug/L | 4 | | 8260C | Total/NA |
| Ethylbenzene | 11 | J | 20 | 3.0 | ug/L | 4 | | 8260C | Total/NA |
| Vinyl chloride | 25 | | 20 | 3.6 | ug/L | 4 | | 8260C | Total/NA |
| GRO | 390 | J | 500 | 230 | ug/L | 10 | | 8015D | Total/NA |
| Arsenic | 0.062 | | 0.010 | 0.0056 | mg/L | 1 | | EPA 6010D | Total/NA |
| Iron | 43.3 | | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 16.4 | | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |
| Alkalinity, Total | 132 | | 25.0 | 20.0 | mg/L | 5 | | 310.2 | Total/NA |
| Ammonia | 2.0 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.021 | J | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Sulfate | 7.1 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 4.8 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: FDUP-01-GW — Lab Sample ID: 480-233913-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 5.7 | | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 9.3 | | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichloroethane | 0.21 | J | 5.0 | 0.21 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 9.9 | | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: FDUP-01-GW (Continued) — Lab Sample ID: 480-233913-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 27 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 2.4 | J | 5.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 59 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| GRO | 110 | | 50 | 23 | ug/L | 1 | | 8015D | Total/NA |
| Arsenic | 0.023 | | 0.010 | 0.0056 | mg/L | 1 | | EPA 6010D | Total/NA |
| Iron | 21.5 | | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 10.7 | | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |
| Alkalinity, Total | 86.7 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 3.7 | | 0.25 | 0.045 | mg/L | 5 | | 350.1 | Total/NA |
| Sulfate | 8.7 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 1.9 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-10 — Lab Sample ID: 480-233913-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 4.1 | J | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| Arsenic | 0.036 | | 0.010 | 0.0056 | mg/L | 1 | | EPA 6010D | Total/NA |
| Iron | 18.1 | | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 15.5 | | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |
| Alkalinity, Total | 48.3 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 1.0 | | 0.050 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Sulfate | 13.2 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 0.99 | J | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-1B — Lab Sample ID: 480-233913-15

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 5.9 | | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 9.8 | | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,3-Dichlorobenzene | 10 | | 5.0 | 0.78 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 28 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 2.4 | J | 5.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 60 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| GRO | 110 | | 50 | 23 | ug/L | 1 | | 8015D | Total/NA |
| Arsenic | 0.022 | | 0.010 | 0.0056 | mg/L | 1 | | EPA 6010D | Total/NA |
| Iron | 21.8 | | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |
| Manganese | 11.0 | | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |
| Alkalinity, Total | 86.5 | | 5.0 | 4.0 | mg/L | 1 | | 310.2 | Total/NA |
| Ammonia | 3.6 | | 0.25 | 0.045 | mg/L | 5 | | 350.1 | Total/NA |
| Sulfate | 8.3 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Total Organic Carbon | 1.9 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: MW-1C — Lab Sample ID: 480-233913-16

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 1.4 | J | 5.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichlorobenzene | 1.5 | J | 5.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 5.5 | | 5.0 | 0.84 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 0.53 | J | 5.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| Chlorobenzene | 10 | | 5.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| Arsenic | 0.060 | | 0.010 | 0.0056 | mg/L | 1 | | EPA 6010D | Total/NA |
| Iron | 43.7 | | 0.15 | 0.019 | mg/L | 1 | | EPA 6010D | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-1C (Continued)
## Lab Sample ID: 480-233913-16

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Manganese | 22.8 | | 0.0050 | 0.00040 | mg/L | 1 | | EPA 6010D | Total/NA |
| Alkalinity, Total | 160 | | 25.0 | 20.0 | mg/L | 5 | | 310.2 | Total/NA |
| Ammonia | 5.3 | | 0.25 | 0.045 | mg/L | 5 | | 350.1 | Total/NA |
| Nitrate-Nitrite | 0.025 | J F1 | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Total Organic Carbon | 4.2 | | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Total/NA |

## Client Sample ID: TRIP BLANK 1
## Lab Sample ID: 480-233913-17

No Detections.

## Client Sample ID: TRIP BLANK 2
## Lab Sample ID: 480-233913-18

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.48 | J | 5.0 | 0.34 | ug/L | 1 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-6A
**Lab Sample ID: 480-233913-1**
**Date Collected: 10/22/25 14:15**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,1,1-Trichloroethane** | **2.8** | **J** | 5.0 | 0.82 | ug/L | | | 10/28/25 01:28 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 01:28 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 01:28 | 1 |
| **1,1-Dichloroethane** | **9.3** | | 5.0 | 0.38 | ug/L | | | 10/28/25 01:28 | 1 |
| **1,1-Dichloroethene** | **0.51** | **J** | 5.0 | 0.29 | ug/L | | | 10/28/25 01:28 | 1 |
| **1,2-Dichlorobenzene** | **4.8** | **J** | 5.0 | 0.79 | ug/L | | | 10/28/25 01:28 | 1 |
| **1,2-Dichloroethane** | **0.27** | **J** | 5.0 | 0.21 | ug/L | | | 10/28/25 01:28 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 01:28 | 1 |
| **1,3-Dichlorobenzene** | **3.3** | **J** | 5.0 | 0.78 | ug/L | | | 10/28/25 01:28 | 1 |
| **1,4-Dichlorobenzene** | **17** | | 5.0 | 0.84 | ug/L | | | 10/28/25 01:28 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 01:28 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 01:28 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 01:28 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 01:28 | 1 |
| **Benzene** | **0.64** | **J** | 5.0 | 0.41 | ug/L | | | 10/28/25 01:28 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 01:28 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 01:28 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 01:28 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 01:28 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 01:28 | 1 |
| **Chlorobenzene** | **12** | | 5.0 | 0.75 | ug/L | | | 10/28/25 01:28 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 01:28 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 01:28 | 1 |
| **Chloroform** | **0.87** | **J** | 5.0 | 0.34 | ug/L | | | 10/28/25 01:28 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 01:28 | 1 |
| **cis-1,2-Dichloroethene** | **41** | | 1.0 | 0.81 | ug/L | | | 10/28/25 01:28 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 01:28 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 01:28 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 01:28 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 01:28 | 1 |
| **Tetrachloroethene** | **3.9** | **J** | 5.0 | 0.36 | ug/L | | | 10/28/25 01:28 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 01:28 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 01:28 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 01:28 | 1 |
| **Trichloroethene** | **87** | | 5.0 | 0.46 | ug/L | | | 10/28/25 01:28 | 1 |
| **Vinyl chloride** | **4.1** | **J** | 5.0 | 0.90 | ug/L | | | 10/28/25 01:28 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 01:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *77 - 120* | | *10/28/25 01:28* | *1* |
| *Toluene-d8 (Surr)* | *88* | | *80 - 120* | | *10/28/25 01:28* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *73 - 120* | | *10/28/25 01:28* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *75 - 123* | | *10/28/25 01:28* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | ^5+ | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 11/03/25 17:22 | 1 |
| **Iron** | **0.047** | **J ^5-** | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 11/03/25 17:22 | 1 |
| **Manganese** | **7.9** | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 11/03/25 17:22 | 1 |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

**Client Sample ID: MW-6A**
**Lab Sample ID: 480-233913-1**
**Date Collected: 10/22/25 14:15**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **129** | | 25.0 | 20.0 | mg/L | | | 10/28/25 11:07 | 5 |
| **Ammonia (EPA 350.1)** | **0.30** | **F1** | 0.050 | 0.0090 | mg/L | | | 10/25/25 19:20 | 1 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 10/25/25 15:55 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **19.0** | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:30 | 1 |
| **Total Organic Carbon (SM 5310C)** | **4.1** | | 1.0 | 0.43 | mg/L | | | 10/31/25 03:32 | 1 |

## Client Sample ID: MW-6B
**Date Collected: 10/22/25 14:40**
**Date Received: 10/24/25 10:00**

## Lab Sample ID: 480-233913-2
**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 01:52 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 01:52 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 01:52 | 1 |
| **1,1-Dichloroethane** | **1.0** | **J** | 5.0 | 0.38 | ug/L | | | 10/28/25 01:52 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 01:52 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 10/28/25 01:52 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 01:52 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 01:52 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 10/28/25 01:52 | 1 |
| **1,4-Dichlorobenzene** | **1.3** | **J** | 5.0 | 0.84 | ug/L | | | 10/28/25 01:52 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 01:52 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 01:52 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 01:52 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 01:52 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 10/28/25 01:52 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 01:52 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 01:52 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 01:52 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 01:52 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 01:52 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 10/28/25 01:52 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 01:52 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 01:52 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 01:52 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 01:52 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 01:52 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 01:52 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 01:52 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 01:52 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 01:52 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 01:52 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 01:52 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 01:52 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 01:52 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 01:52 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 01:52 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 01:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *95* | | *77 - 120* | | *10/28/25 01:52* | *1* |
| *Toluene-d8 (Surr)* | *90* | | *80 - 120* | | *10/28/25 01:52* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *73 - 120* | | *10/28/25 01:52* | *1* |
| *Dibromofluoromethane (Surr)* | *93* | | *75 - 123* | | *10/28/25 01:52* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.0090** | **J** | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 10/30/25 19:38 | 1 |
| **Iron** | **3.7** | | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 10/30/25 19:38 | 1 |
| **Manganese** | **8.6** | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 10/30/25 19:38 | 1 |

# Client Sample Results

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-6B
**Lab Sample ID: 480-233913-2**
**Date Collected: 10/22/25 14:40**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **48.7** | | 5.0 | 4.0 | mg/L | | | 10/28/25 10:30 | 1 |
| **Ammonia (EPA 350.1)** | **0.97** | | 0.050 | 0.0090 | mg/L | | | 10/25/25 19:21 | 1 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 10/25/25 16:03 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **11.1** | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:31 | 1 |
| Total Organic Carbon (SM 5310C) | ND | | 1.0 | 0.43 | mg/L | | | 10/28/25 13:33 | 1 |

## Client Sample ID: MW-7M
**Date Collected: 10/22/25 11:50**
**Date Received: 10/24/25 10:00**

## Lab Sample ID: 480-233913-3
**Matrix: Ground Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 02:16 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 02:16 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 02:16 | 1 |
| **1,1-Dichloroethane** | **0.77** | **J** | 5.0 | 0.38 | ug/L | | | 10/28/25 02:16 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 02:16 | 1 |
| **1,2-Dichlorobenzene** | **0.82** | **J** | 5.0 | 0.79 | ug/L | | | 10/28/25 02:16 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 02:16 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 02:16 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 10/28/25 02:16 | 1 |
| **1,4-Dichlorobenzene** | **3.2** | **J** | 5.0 | 0.84 | ug/L | | | 10/28/25 02:16 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 02:16 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 02:16 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 02:16 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 02:16 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 10/28/25 02:16 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 02:16 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 02:16 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 02:16 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 02:16 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 02:16 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 10/28/25 02:16 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 02:16 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 02:16 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 02:16 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 02:16 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 02:16 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 02:16 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 02:16 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 02:16 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 02:16 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 02:16 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 02:16 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 02:16 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 02:16 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 02:16 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 02:16 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 02:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *77 - 120* | | *10/28/25 02:16* | *1* |
| *Toluene-d8 (Surr)* | *93* | | *80 - 120* | | *10/28/25 02:16* | *1* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *73 - 120* | | *10/28/25 02:16* | *1* |
| *Dibromofluoromethane (Surr)* | *94* | | *75 - 123* | | *10/28/25 02:16* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 10/30/25 19:40 | 1 |
| **Iron** | **0.034** | **J** | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 10/30/25 19:40 | 1 |
| **Manganese** | **1.2** | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 10/30/25 19:40 | 1 |

# Client Sample Results

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-7M
**Date Collected: 10/22/25 11:50**
**Date Received: 10/24/25 10:00**

## Lab Sample ID: 480-233913-3
**Matrix: Ground Water**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **67.2** | | 5.0 | 4.0 | mg/L | | | 10/28/25 10:30 | 1 |
| **Ammonia (EPA 350.1)** | **1.4** | | 0.050 | 0.0090 | mg/L | | | 10/25/25 19:22 | 1 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 10/25/25 16:05 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **9.4** | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:31 | 1 |
| Total Organic Carbon (SM 5310C) | ND | | 1.0 | 0.43 | mg/L | | | 10/28/25 14:29 | 1 |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-18B
**Lab Sample ID: 480-233913-4**
**Date Collected: 10/23/25 11:35**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 02:40 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 02:40 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 02:40 | 1 |
| **1,1-Dichloroethane** | **12** | | 5.0 | 0.38 | ug/L | | | 10/28/25 02:40 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 02:40 | 1 |
| **1,2-Dichlorobenzene** | **8.3** | | 5.0 | 0.79 | ug/L | | | 10/28/25 02:40 | 1 |
| **1,2-Dichloroethane** | **0.25** | **J** | 5.0 | 0.21 | ug/L | | | 10/28/25 02:40 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 02:40 | 1 |
| **1,3-Dichlorobenzene** | **10** | | 5.0 | 0.78 | ug/L | | | 10/28/25 02:40 | 1 |
| **1,4-Dichlorobenzene** | **26** | | 5.0 | 0.84 | ug/L | | | 10/28/25 02:40 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 02:40 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 02:40 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 02:40 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 02:40 | 1 |
| **Benzene** | **3.0** | **J** | 5.0 | 0.41 | ug/L | | | 10/28/25 02:40 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 02:40 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 02:40 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 02:40 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 02:40 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 02:40 | 1 |
| **Chlorobenzene** | **72** | | 5.0 | 0.75 | ug/L | | | 10/28/25 02:40 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 02:40 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 02:40 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 02:40 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 02:40 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 02:40 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 02:40 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 02:40 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 02:40 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 02:40 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 02:40 | 1 |
| **Toluene** | **0.83** | **J** | 5.0 | 0.51 | ug/L | | | 10/28/25 02:40 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 02:40 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 02:40 | 1 |
| **Trichloroethene** | **0.47** | **J** | 5.0 | 0.46 | ug/L | | | 10/28/25 02:40 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 02:40 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 02:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *77 - 120* | | *10/28/25 02:40* | *1* |
| *Toluene-d8 (Surr)* | *92* | | *80 - 120* | | *10/28/25 02:40* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *73 - 120* | | *10/28/25 02:40* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *75 - 123* | | *10/28/25 02:40* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.059** | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 10/30/25 19:48 | 1 |
| **Iron** | **43.0** | | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 10/30/25 19:48 | 1 |
| **Manganese** | **11.1** | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 10/30/25 19:48 | 1 |

# Client Sample Results

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-18B
**Lab Sample ID: 480-233913-4**
**Date Collected: 10/23/25 11:35**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total (EPA 310.2) | 85.6 | | 5.0 | 4.0 | mg/L | | | 10/28/25 10:30 | 1 |
| Ammonia (EPA 350.1) | 1.1 | | 0.050 | 0.0090 | mg/L | | | 10/25/25 19:23 | 1 |
| Nitrate-Nitrite (EPA 353.2) | 0.022 | J | 0.050 | 0.020 | mg/L | | | 10/25/25 16:07 | 1 |
| Sulfate (ASTM D516-90, 02) | 7.4 | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:32 | 1 |
| Total Organic Carbon (SM 5310C) | 2.1 | | 1.0 | 0.43 | mg/L | | | 10/28/25 15:57 | 1 |

## Client Sample ID: MW-18C
**Date Collected: 10/23/25 11:25**
**Date Received: 10/24/25 10:00**

## Lab Sample ID: 480-233913-5
**Matrix: Ground Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 03:03 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 03:03 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 03:03 | 1 |
| **1,1-Dichloroethane** | **2.1** | **J** | 5.0 | 0.38 | ug/L | | | 10/28/25 03:03 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 03:03 | 1 |
| **1,2-Dichlorobenzene** | **2.2** | **J** | 5.0 | 0.79 | ug/L | | | 10/28/25 03:03 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 03:03 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 03:03 | 1 |
| **1,3-Dichlorobenzene** | **2.9** | **J** | 5.0 | 0.78 | ug/L | | | 10/28/25 03:03 | 1 |
| **1,4-Dichlorobenzene** | **6.8** | | 5.0 | 0.84 | ug/L | | | 10/28/25 03:03 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 03:03 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 03:03 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 03:03 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 03:03 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 10/28/25 03:03 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 03:03 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 03:03 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 03:03 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 03:03 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 03:03 | 1 |
| **Chlorobenzene** | **9.8** | | 5.0 | 0.75 | ug/L | | | 10/28/25 03:03 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 03:03 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 03:03 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 03:03 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 03:03 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 03:03 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 03:03 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 03:03 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 03:03 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 03:03 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 03:03 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 03:03 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 03:03 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 03:03 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 03:03 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 03:03 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 03:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *77 - 120* | | *10/28/25 03:03* | *1* |
| *Toluene-d8 (Surr)* | *93* | | *80 - 120* | | *10/28/25 03:03* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *73 - 120* | | *10/28/25 03:03* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *75 - 123* | | *10/28/25 03:03* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 10/30/25 19:50 | 1 |
| **Iron** | **9.9** | | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 10/30/25 19:50 | 1 |
| **Manganese** | **9.0** | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 10/30/25 19:50 | 1 |

# Client Sample Results

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-18C
**Date Collected: 10/23/25 11:25**
**Date Received: 10/24/25 10:00**

## Lab Sample ID: 480-233913-5
**Matrix: Ground Water**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **31.8** | | 5.0 | 4.0 | mg/L | | | 10/28/25 11:29 | 1 |
| **Ammonia (EPA 350.1)** | **0.78** | | 0.050 | 0.0090 | mg/L | | | 10/25/25 19:23 | 1 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 10/25/25 16:23 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **9.7** | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:33 | 1 |
| Total Organic Carbon (SM 5310C) | ND | | 1.0 | 0.43 | mg/L | | | 10/28/25 16:26 | 1 |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-20A
**Lab Sample ID: 480-233913-6**

**Date Collected: 10/22/25 10:50**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 03:27 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 03:27 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 03:27 | 1 |
| **1,1-Dichloroethane** | **3.8** | **J** | 5.0 | 0.38 | ug/L | | | 10/28/25 03:27 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 03:27 | 1 |
| **1,2-Dichlorobenzene** | **1.1** | **J** | 5.0 | 0.79 | ug/L | | | 10/28/25 03:27 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 03:27 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 03:27 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 10/28/25 03:27 | 1 |
| **1,4-Dichlorobenzene** | **4.1** | **J** | 5.0 | 0.84 | ug/L | | | 10/28/25 03:27 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 03:27 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 03:27 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 03:27 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 03:27 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 10/28/25 03:27 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 03:27 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 03:27 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 03:27 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 03:27 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 03:27 | 1 |
| **Chlorobenzene** | **3.0** | **J** | 5.0 | 0.75 | ug/L | | | 10/28/25 03:27 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 03:27 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 03:27 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 03:27 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 03:27 | 1 |
| **cis-1,2-Dichloroethene** | **1.2** | | 1.0 | 0.81 | ug/L | | | 10/28/25 03:27 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 03:27 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 03:27 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 03:27 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 03:27 | 1 |
| **Tetrachloroethene** | **0.72** | **J** | 5.0 | 0.36 | ug/L | | | 10/28/25 03:27 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 03:27 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 03:27 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 03:27 | 1 |
| **Trichloroethene** | **0.78** | **J** | 5.0 | 0.46 | ug/L | | | 10/28/25 03:27 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 03:27 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 03:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *77 - 120* | | *10/28/25 03:27* | *1* |
| *Toluene-d8 (Surr)* | *89* | | *80 - 120* | | *10/28/25 03:27* | *1* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *73 - 120* | | *10/28/25 03:27* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *75 - 123* | | *10/28/25 03:27* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 10/30/25 19:52 | 1 |
| **Iron** | **0.60** | | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 10/30/25 19:52 | 1 |
| **Manganese** | **0.68** | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 10/30/25 19:52 | 1 |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-20A
**Lab Sample ID: 480-233913-6**
**Date Collected: 10/22/25 10:50**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **91.9** | | 5.0 | 4.0 | mg/L | | | 10/28/25 11:29 | 1 |
| **Ammonia (EPA 350.1)** | **0.21** | | 0.050 | 0.0090 | mg/L | | | 10/25/25 19:25 | 1 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 10/25/25 16:25 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **11.9** | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:33 | 1 |
| Total Organic Carbon (SM 5310C) | ND | | 1.0 | 0.43 | mg/L | | | 10/28/25 17:52 | 1 |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-20B
**Lab Sample ID: 480-233913-7**

**Date Collected: 10/22/25 11:30**
**Matrix: Ground Water**

**Date Received: 10/24/25 10:00**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 03:50 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 03:50 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 03:50 | 1 |
| **1,1-Dichloroethane** | **5.1** | | 5.0 | 0.38 | ug/L | | | 10/28/25 03:50 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 03:50 | 1 |
| **1,2-Dichlorobenzene** | **5.4** | | 5.0 | 0.79 | ug/L | | | 10/28/25 03:50 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 03:50 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 03:50 | 1 |
| **1,3-Dichlorobenzene** | **6.0** | | 5.0 | 0.78 | ug/L | | | 10/28/25 03:50 | 1 |
| **1,4-Dichlorobenzene** | **17** | | 5.0 | 0.84 | ug/L | | | 10/28/25 03:50 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 03:50 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 03:50 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 03:50 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 03:50 | 1 |
| **Benzene** | **1.6** | **J** | 5.0 | 0.41 | ug/L | | | 10/28/25 03:50 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 03:50 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 03:50 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 03:50 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 03:50 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 03:50 | 1 |
| **Chlorobenzene** | **36** | | 5.0 | 0.75 | ug/L | | | 10/28/25 03:50 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 03:50 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 03:50 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 03:50 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 03:50 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 03:50 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 03:50 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 03:50 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 03:50 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 03:50 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 03:50 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 03:50 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 03:50 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 03:50 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 03:50 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 03:50 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 03:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *77 - 120* | | *10/28/25 03:50* | *1* |
| *Toluene-d8 (Surr)* | *92* | | *80 - 120* | | *10/28/25 03:50* | *1* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *73 - 120* | | *10/28/25 03:50* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *75 - 123* | | *10/28/25 03:50* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.024** | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 10/30/25 19:54 | 1 |
| **Iron** | **23.9** | | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 10/30/25 19:54 | 1 |
| **Manganese** | **10.9** | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 10/30/25 19:54 | 1 |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

**Client Sample ID: MW-20B**
**Lab Sample ID: 480-233913-7**
**Date Collected: 10/22/25 11:30**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **72.0** | | 5.0 | 4.0 | mg/L | | | 10/28/25 11:29 | 1 |
| **Ammonia (EPA 350.1)** | **3.0** | | 0.25 | 0.045 | mg/L | | | 11/01/25 11:57 | 5 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 10/25/25 16:27 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **8.5** | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:33 | 1 |
| **Total Organic Carbon (SM 5310C)** | **1.1** | | 1.0 | 0.43 | mg/L | | | 10/28/25 18:49 | 1 |

## Client Sample ID: MW-19
**Date Collected: 10/23/25 12:20**
**Date Received: 10/24/25 10:00**

## Lab Sample ID: 480-233913-8
**Matrix: Ground Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 04:14 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 04:14 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 04:14 | 1 |
| **1,1-Dichloroethane** | **1.5** | **J** | 5.0 | 0.38 | ug/L | | | 10/28/25 04:14 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 04:14 | 1 |
| **1,2-Dichlorobenzene** | **1.3** | **J** | 5.0 | 0.79 | ug/L | | | 10/28/25 04:14 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 04:14 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 04:14 | 1 |
| **1,3-Dichlorobenzene** | **1.4** | **J** | 5.0 | 0.78 | ug/L | | | 10/28/25 04:14 | 1 |
| **1,4-Dichlorobenzene** | **4.3** | **J** | 5.0 | 0.84 | ug/L | | | 10/28/25 04:14 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 04:14 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 04:14 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 04:14 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 04:14 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 10/28/25 04:14 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 04:14 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 04:14 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 04:14 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 04:14 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 04:14 | 1 |
| **Chlorobenzene** | **6.8** | | 5.0 | 0.75 | ug/L | | | 10/28/25 04:14 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 04:14 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 04:14 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 04:14 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 04:14 | 1 |
| **cis-1,2-Dichloroethene** | **3.0** | | 1.0 | 0.81 | ug/L | | | 10/28/25 04:14 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 04:14 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 04:14 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 04:14 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 04:14 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 04:14 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 04:14 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 04:14 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 04:14 | 1 |
| **Trichloroethene** | **0.52** | **J** | 5.0 | 0.46 | ug/L | | | 10/28/25 04:14 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 04:14 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 04:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *95* | | *77 - 120* | | *10/28/25 04:14* | *1* |
| *Toluene-d8 (Surr)* | *92* | | *80 - 120* | | *10/28/25 04:14* | *1* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *73 - 120* | | *10/28/25 04:14* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *75 - 123* | | *10/28/25 04:14* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 10/30/25 19:55 | 1 |
| **Iron** | **3.1** | | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 10/30/25 19:55 | 1 |
| **Manganese** | **11.4** | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 10/30/25 19:55 | 1 |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

**Client Sample ID: MW-19**
**Lab Sample ID: 480-233913-8**
**Date Collected: 10/23/25 12:20**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **57.1** | | 5.0 | 4.0 | mg/L | | | 10/28/25 11:30 | 1 |
| **Ammonia (EPA 350.1)** | **0.29** | | 0.050 | 0.0090 | mg/L | | | 10/25/25 19:32 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.023** | **J** | 0.050 | 0.020 | mg/L | | | 10/25/25 16:29 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **18.7** | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:35 | 1 |
| Total Organic Carbon (SM 5310C) | ND | | 1.0 | 0.43 | mg/L | | | 10/28/25 19:46 | 1 |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-21
**Date Collected: 10/22/25 12:55**
**Date Received: 10/24/25 10:00**

## Lab Sample ID: 480-233913-9
**Matrix: Ground Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 04:38 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 04:38 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 04:38 | 1 |
| **1,1-Dichloroethane** | **4.1** | **J** | 5.0 | 0.38 | ug/L | | | 10/28/25 04:38 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 04:38 | 1 |
| **1,2-Dichlorobenzene** | **3.5** | **J** | 5.0 | 0.79 | ug/L | | | 10/28/25 04:38 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 04:38 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 04:38 | 1 |
| **1,3-Dichlorobenzene** | **3.4** | **J** | 5.0 | 0.78 | ug/L | | | 10/28/25 04:38 | 1 |
| **1,4-Dichlorobenzene** | **15** | | 5.0 | 0.84 | ug/L | | | 10/28/25 04:38 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 04:38 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 04:38 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 04:38 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 04:38 | 1 |
| **Benzene** | **0.60** | **J** | 5.0 | 0.41 | ug/L | | | 10/28/25 04:38 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 04:38 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 04:38 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 04:38 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 04:38 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 04:38 | 1 |
| **Chlorobenzene** | **6.3** | | 5.0 | 0.75 | ug/L | | | 10/28/25 04:38 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 04:38 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 04:38 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 04:38 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 04:38 | 1 |
| **cis-1,2-Dichloroethene** | **0.91** | **J** | 1.0 | 0.81 | ug/L | | | 10/28/25 04:38 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 04:38 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 04:38 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 04:38 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 04:38 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 04:38 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 04:38 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 04:38 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 04:38 | 1 |
| **Trichloroethene** | **0.68** | **J** | 5.0 | 0.46 | ug/L | | | 10/28/25 04:38 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 04:38 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 04:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *77 - 120* | | *10/28/25 04:38* | *1* |
| *Toluene-d8 (Surr)* | *90* | | *80 - 120* | | *10/28/25 04:38* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *73 - 120* | | *10/28/25 04:38* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *75 - 123* | | *10/28/25 04:38* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 10/30/25 19:57 | 1 |
| **Iron** | **2.3** | | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 10/30/25 19:57 | 1 |
| **Manganese** | **1.4** | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 10/30/25 19:57 | 1 |

# Client Sample Results

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-21
**Date Collected: 10/22/25 12:55**
**Date Received: 10/24/25 10:00**

## Lab Sample ID: 480-233913-9
**Matrix: Ground Water**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **121** | | 25.0 | 20.0 | mg/L | | | 10/28/25 11:25 | 5 |
| **Ammonia (EPA 350.1)** | **3.4** | | 0.25 | 0.045 | mg/L | | | 10/29/25 11:03 | 5 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 10/25/25 16:31 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **23.6** | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:35 | 1 |
| **Total Organic Carbon (SM 5310C)** | **0.85** | **J** | 1.0 | 0.43 | mg/L | | | 10/28/25 20:16 | 1 |

## Client Sample ID: MW-22
**Date Collected: 10/22/25 10:45**
**Date Received: 10/24/25 10:00**

## Lab Sample ID: 480-233913-10
**Matrix: Ground Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 05:02 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 05:02 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 05:02 | 1 |
| **1,1-Dichloroethane** | **1.6** | **J** | 5.0 | 0.38 | ug/L | | | 10/28/25 05:02 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 05:02 | 1 |
| **1,2-Dichlorobenzene** | **1.0** | **J** | 5.0 | 0.79 | ug/L | | | 10/28/25 05:02 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 05:02 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 05:02 | 1 |
| **1,3-Dichlorobenzene** | **1.3** | **J** | 5.0 | 0.78 | ug/L | | | 10/28/25 05:02 | 1 |
| **1,4-Dichlorobenzene** | **4.2** | **J** | 5.0 | 0.84 | ug/L | | | 10/28/25 05:02 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 05:02 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 05:02 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 05:02 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 05:02 | 1 |
| **Benzene** | **0.41** | **J** | 5.0 | 0.41 | ug/L | | | 10/28/25 05:02 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 05:02 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 05:02 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 05:02 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 05:02 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 05:02 | 1 |
| **Chlorobenzene** | **6.0** | | 5.0 | 0.75 | ug/L | | | 10/28/25 05:02 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 05:02 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 05:02 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 05:02 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 05:02 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 05:02 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 05:02 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 05:02 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 05:02 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 05:02 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 05:02 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 05:02 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 05:02 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 05:02 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 05:02 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 05:02 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 05:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *77 - 120* | | *10/28/25 05:02* | *1* |
| *Toluene-d8 (Surr)* | *91* | | *80 - 120* | | *10/28/25 05:02* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *73 - 120* | | *10/28/25 05:02* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *75 - 123* | | *10/28/25 05:02* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.021** | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 10/30/25 19:59 | 1 |
| **Iron** | **8.4** | | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 10/30/25 19:59 | 1 |
| **Manganese** | **9.9** | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 10/30/25 19:59 | 1 |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-22
**Date Collected: 10/22/25 10:45**
**Date Received: 10/24/25 10:00**

## Lab Sample ID: 480-233913-10
**Matrix: Ground Water**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **48.9** | | 5.0 | 4.0 | mg/L | | | 10/28/25 11:20 | 1 |
| **Ammonia (EPA 350.1)** | **1.6** | | 0.050 | 0.0090 | mg/L | | | 10/25/25 19:33 | 1 |
| Nitrate-Nitrite (EPA 353.2) | ND | F1 | 0.050 | 0.020 | mg/L | | | 10/25/25 16:37 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **8.4** | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:47 | 1 |
| Total Organic Carbon (SM 5310C) | ND | | 1.0 | 0.43 | mg/L | | | 10/28/25 20:45 | 1 |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: FDUP-02-GW
**Date Collected: 10/22/25 00:00**
**Date Received: 10/24/25 10:00**

## Lab Sample ID: 480-233913-11
**Matrix: Ground Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 05:26 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 05:26 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 05:26 | 1 |
| **1,1-Dichloroethane** | **1.5** | **J** | 5.0 | 0.38 | ug/L | | | 10/28/25 05:26 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 05:26 | 1 |
| **1,2-Dichlorobenzene** | **0.98** | **J** | 5.0 | 0.79 | ug/L | | | 10/28/25 05:26 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 05:26 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 05:26 | 1 |
| **1,3-Dichlorobenzene** | **1.2** | **J** | 5.0 | 0.78 | ug/L | | | 10/28/25 05:26 | 1 |
| **1,4-Dichlorobenzene** | **3.9** | **J** | 5.0 | 0.84 | ug/L | | | 10/28/25 05:26 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 05:26 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 05:26 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 05:26 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 05:26 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 10/28/25 05:26 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 05:26 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 05:26 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 05:26 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 05:26 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 05:26 | 1 |
| **Chlorobenzene** | **5.5** | | 5.0 | 0.75 | ug/L | | | 10/28/25 05:26 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 05:26 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 05:26 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 05:26 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 05:26 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 05:26 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 05:26 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 05:26 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 05:26 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 05:26 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 05:26 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 05:26 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 05:26 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 05:26 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 05:26 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 05:26 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 05:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *77 - 120* | | *10/28/25 05:26* | *1* |
| *Toluene-d8 (Surr)* | *90* | | *80 - 120* | | *10/28/25 05:26* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *73 - 120* | | *10/28/25 05:26* | *1* |
| *Dibromofluoromethane (Surr)* | *90* | | *75 - 123* | | *10/28/25 05:26* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.023** | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 10/30/25 20:01 | 1 |
| **Iron** | **8.3** | | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 10/30/25 20:01 | 1 |
| **Manganese** | **9.8** | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 10/30/25 20:01 | 1 |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: FDUP-02-GW
**Lab Sample ID: 480-233913-11**
**Date Collected: 10/22/25 00:00**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **51.8** | | 5.0 | 4.0 | mg/L | | | 10/28/25 11:17 | 1 |
| **Ammonia (EPA 350.1)** | **1.6** | | 0.050 | 0.0090 | mg/L | | | 10/25/25 19:34 | 1 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 10/25/25 16:40 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **8.4** | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:37 | 1 |
| Total Organic Carbon (SM 5310C) | ND | | 1.0 | 0.43 | mg/L | | | 10/28/25 21:13 | 1 |

## Client Sample ID: EX-1
**Lab Sample ID: 480-233913-12**

**Date Collected: 10/22/25 12:45**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 20 | 3.3 | ug/L | | | 10/28/25 18:28 | 4 |
| 1,1,2,2-Tetrachloroethane | ND | | 20 | 0.84 | ug/L | | | 10/28/25 18:28 | 4 |
| 1,1,2-Trichloroethane | ND | | 20 | 0.92 | ug/L | | | 10/28/25 18:28 | 4 |
| **1,1-Dichloroethane** | **13** | **J** | 20 | 1.5 | ug/L | | | 10/28/25 18:28 | 4 |
| 1,1-Dichloroethene | ND | | 20 | 1.2 | ug/L | | | 10/28/25 18:28 | 4 |
| **1,2-Dichlorobenzene** | **31** | | 20 | 3.2 | ug/L | | | 10/28/25 18:28 | 4 |
| 1,2-Dichloroethane | ND | | 20 | 0.84 | ug/L | | | 10/28/25 18:28 | 4 |
| 1,2-Dichloropropane | ND | | 20 | 2.9 | ug/L | | | 10/28/25 18:28 | 4 |
| **1,3-Dichlorobenzene** | **25** | | 20 | 3.1 | ug/L | | | 10/28/25 18:28 | 4 |
| **1,4-Dichlorobenzene** | **110** | | 20 | 3.4 | ug/L | | | 10/28/25 18:28 | 4 |
| 2-Hexanone | ND | | 20 | 5.0 | ug/L | | | 10/28/25 18:28 | 4 |
| 2-Butanone (MEK) | ND | *+ | 20 | 5.3 | ug/L | | | 10/28/25 18:28 | 4 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 20 | 8.4 | ug/L | | | 10/28/25 18:28 | 4 |
| Acetone | ND | | 40 | 12 | ug/L | | | 10/28/25 18:28 | 4 |
| **Benzene** | **9.9** | **J** | 20 | 1.6 | ug/L | | | 10/28/25 18:28 | 4 |
| Bromodichloromethane | ND | | 20 | 1.6 | ug/L | | | 10/28/25 18:28 | 4 |
| Bromoform | ND | | 20 | 1.0 | ug/L | | | 10/28/25 18:28 | 4 |
| Bromomethane | ND | | 20 | 2.8 | ug/L | | | 10/28/25 18:28 | 4 |
| Carbon disulfide | ND | | 20 | 0.76 | ug/L | | | 10/28/25 18:28 | 4 |
| Carbon tetrachloride | ND | | 20 | 1.1 | ug/L | | | 10/28/25 18:28 | 4 |
| **Chlorobenzene** | **180** | | 20 | 3.0 | ug/L | | | 10/28/25 18:28 | 4 |
| Dibromochloromethane | ND | | 20 | 1.3 | ug/L | | | 10/28/25 18:28 | 4 |
| Chloroethane | ND | | 20 | 1.3 | ug/L | | | 10/28/25 18:28 | 4 |
| Chloroform | ND | | 20 | 1.4 | ug/L | | | 10/28/25 18:28 | 4 |
| Chloromethane | ND | | 20 | 1.4 | ug/L | | | 10/28/25 18:28 | 4 |
| **cis-1,2-Dichloroethene** | **33** | | 4.0 | 3.2 | ug/L | | | 10/28/25 18:28 | 4 |
| cis-1,3-Dichloropropene | ND | | 20 | 1.4 | ug/L | | | 10/28/25 18:28 | 4 |
| **Ethylbenzene** | **11** | **J** | 20 | 3.0 | ug/L | | | 10/28/25 18:28 | 4 |
| Methylene Chloride | ND | | 20 | 1.8 | ug/L | | | 10/28/25 18:28 | 4 |
| Styrene | ND | | 20 | 2.9 | ug/L | | | 10/28/25 18:28 | 4 |
| Tetrachloroethene | ND | | 20 | 1.4 | ug/L | | | 10/28/25 18:28 | 4 |
| Toluene | ND | | 20 | 2.0 | ug/L | | | 10/28/25 18:28 | 4 |
| trans-1,2-Dichloroethene | ND | | 4.0 | 3.6 | ug/L | | | 10/28/25 18:28 | 4 |
| trans-1,3-Dichloropropene | ND | | 20 | 1.5 | ug/L | | | 10/28/25 18:28 | 4 |
| Trichloroethene | ND | | 20 | 1.8 | ug/L | | | 10/28/25 18:28 | 4 |
| **Vinyl chloride** | **25** | | 20 | 3.6 | ug/L | | | 10/28/25 18:28 | 4 |
| Xylenes, Total | ND | | 20 | 2.6 | ug/L | | | 10/28/25 18:28 | 4 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *77 - 120* | | *10/28/25 18:28* | *4* |
| *Toluene-d8 (Surr)* | *91* | | *80 - 120* | | *10/28/25 18:28* | *4* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *73 - 120* | | *10/28/25 18:28* | *4* |
| *Dibromofluoromethane (Surr)* | *97* | | *75 - 123* | | *10/28/25 18:28* | *4* |

### Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **GRO** | **390** | **J** | 500 | 230 | ug/L | | | 10/30/25 21:39 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *96* | | *63 - 135* | | *10/30/25 21:39* | *10* |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: EX-1
**Lab Sample ID: 480-233913-12**
**Date Collected: 10/22/25 12:45**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

### Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 920 | 570 | ug/L | | 10/29/25 16:49 | 10/31/25 04:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *82* | | *32 - 125* | *10/29/25 16:49* | *10/31/25 04:51* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.062** | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 10/30/25 20:03 | 1 |
| **Iron** | **43.3** | | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 10/30/25 20:03 | 1 |
| **Manganese** | **16.4** | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 10/30/25 20:03 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **132** | | 25.0 | 20.0 | mg/L | | | 10/28/25 11:27 | 5 |
| **Ammonia (EPA 350.1)** | **2.0** | | 0.050 | 0.0090 | mg/L | | | 10/29/25 11:06 | 1 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.021** | **J** | 0.050 | 0.020 | mg/L | | | 10/25/25 16:42 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **7.1** | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:38 | 1 |
| **Total Organic Carbon (SM 5310C)** | **4.8** | | 1.0 | 0.43 | mg/L | | | 10/28/25 21:42 | 1 |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: FDUP-01-GW
**Lab Sample ID: 480-233913-13**
**Date Collected: 10/23/25 00:00**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 06:13 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 06:13 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 06:13 | 1 |
| **1,1-Dichloroethane** | **5.7** | | 5.0 | 0.38 | ug/L | | | 10/28/25 06:13 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 06:13 | 1 |
| **1,2-Dichlorobenzene** | **9.3** | | 5.0 | 0.79 | ug/L | | | 10/28/25 06:13 | 1 |
| **1,2-Dichloroethane** | **0.21** | **J** | 5.0 | 0.21 | ug/L | | | 10/28/25 06:13 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 06:13 | 1 |
| **1,3-Dichlorobenzene** | **9.9** | | 5.0 | 0.78 | ug/L | | | 10/28/25 06:13 | 1 |
| **1,4-Dichlorobenzene** | **27** | | 5.0 | 0.84 | ug/L | | | 10/28/25 06:13 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 06:13 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 06:13 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 06:13 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 06:13 | 1 |
| **Benzene** | **2.4** | **J** | 5.0 | 0.41 | ug/L | | | 10/28/25 06:13 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 06:13 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 06:13 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 06:13 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 06:13 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 06:13 | 1 |
| **Chlorobenzene** | **59** | | 5.0 | 0.75 | ug/L | | | 10/28/25 06:13 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 06:13 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 06:13 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 06:13 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 06:13 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 06:13 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 06:13 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 06:13 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 06:13 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 06:13 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 06:13 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 06:13 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 06:13 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 06:13 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 06:13 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 06:13 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 06:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *77 - 120* | | *10/28/25 06:13* | *1* |
| *Toluene-d8 (Surr)* | *89* | | *80 - 120* | | *10/28/25 06:13* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *73 - 120* | | *10/28/25 06:13* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *75 - 123* | | *10/28/25 06:13* | *1* |

### Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **GRO** | **110** | | 50 | 23 | ug/L | | | 10/31/25 19:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *96* | | *63 - 135* | | *10/31/25 19:30* | *1* |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: FDUP-01-GW
**Lab Sample ID: 480-233913-13**
**Date Collected: 10/23/25 00:00**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

### Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | *+ *1 | 1000 | 630 | ug/L | | 10/30/25 16:25 | 11/01/25 04:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *68* | | *32 - 125* | *10/30/25 16:25* | *11/01/25 04:38* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.023** | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 10/30/25 20:11 | 1 |
| **Iron** | **21.5** | | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 10/30/25 20:11 | 1 |
| **Manganese** | **10.7** | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 10/30/25 20:11 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **86.7** | | 5.0 | 4.0 | mg/L | | | 10/28/25 11:18 | 1 |
| **Ammonia (EPA 350.1)** | **3.7** | | 0.25 | 0.045 | mg/L | | | 10/29/25 11:08 | 5 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 10/25/25 16:44 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **8.7** | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:39 | 1 |
| **Total Organic Carbon (SM 5310C)** | **1.9** | | 1.0 | 0.43 | mg/L | | | 10/28/25 22:11 | 1 |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-10
**Date Collected: 10/22/25 13:30**
**Date Received: 10/24/25 10:00**

## Lab Sample ID: 480-233913-14
**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 06:37 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 06:37 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 06:37 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 10/28/25 06:37 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 06:37 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 10/28/25 06:37 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 06:37 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 06:37 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 10/28/25 06:37 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 10/28/25 06:37 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 06:37 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 06:37 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 06:37 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 06:37 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 10/28/25 06:37 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 06:37 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 06:37 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 06:37 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 06:37 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 06:37 | 1 |
| **Chlorobenzene** | **4.1** | **J** | 5.0 | 0.75 | ug/L | | | 10/28/25 06:37 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 06:37 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 06:37 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 06:37 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 06:37 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 06:37 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 06:37 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 06:37 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 06:37 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 06:37 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 06:37 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 06:37 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 06:37 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 06:37 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 06:37 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 06:37 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 06:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *77 - 120* | | *10/28/25 06:37* | *1* |
| *Toluene-d8 (Surr)* | *89* | | *80 - 120* | | *10/28/25 06:37* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *73 - 120* | | *10/28/25 06:37* | *1* |
| *Dibromofluoromethane (Surr)* | *89* | | *75 - 123* | | *10/28/25 06:37* | *1* |

### Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO | ND | | 50 | 23 | ug/L | | | 10/30/25 17:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *101* | | *63 - 135* | | *10/30/25 17:21* | *1* |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-10
**Lab Sample ID: 480-233913-14**
**Date Collected: 10/22/25 13:30**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

### Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 950 | 590 | ug/L | | 10/29/25 16:49 | 10/31/25 05:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *74* | | *32 - 125* | *10/29/25 16:49* | *10/31/25 05:14* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.036** | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 10/30/25 20:13 | 1 |
| **Iron** | **18.1** | | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 10/30/25 20:13 | 1 |
| **Manganese** | **15.5** | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 10/30/25 20:13 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **48.3** | | 5.0 | 4.0 | mg/L | | | 10/28/25 11:18 | 1 |
| **Ammonia (EPA 350.1)** | **1.0** | | 0.050 | 0.0090 | mg/L | | | 10/25/25 19:39 | 1 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 10/25/25 16:46 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **13.2** | | 5.0 | 1.5 | mg/L | | | 10/28/25 15:16 | 1 |
| **Total Organic Carbon (SM 5310C)** | **0.99** | **J** | 1.0 | 0.43 | mg/L | | | 10/29/25 02:01 | 1 |

## Client Sample ID: MW-1B
**Lab Sample ID: 480-233913-15**

**Date Collected: 10/23/25 09:45**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 07:00 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 07:00 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 07:00 | 1 |
| **1,1-Dichloroethane** | **5.9** | | 5.0 | 0.38 | ug/L | | | 10/28/25 07:00 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 07:00 | 1 |
| **1,2-Dichlorobenzene** | **9.8** | | 5.0 | 0.79 | ug/L | | | 10/28/25 07:00 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 07:00 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 07:00 | 1 |
| **1,3-Dichlorobenzene** | **10** | | 5.0 | 0.78 | ug/L | | | 10/28/25 07:00 | 1 |
| **1,4-Dichlorobenzene** | **28** | | 5.0 | 0.84 | ug/L | | | 10/28/25 07:00 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 07:00 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 07:00 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 07:00 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 07:00 | 1 |
| **Benzene** | **2.4** | **J** | 5.0 | 0.41 | ug/L | | | 10/28/25 07:00 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 07:00 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 07:00 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 07:00 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 07:00 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 07:00 | 1 |
| **Chlorobenzene** | **60** | | 5.0 | 0.75 | ug/L | | | 10/28/25 07:00 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 07:00 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 07:00 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 07:00 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 07:00 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 07:00 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 07:00 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 07:00 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 07:00 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 07:00 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 07:00 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 07:00 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 07:00 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 07:00 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 07:00 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 07:00 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 07:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *77 - 120* | | *10/28/25 07:00* | *1* |
| *Toluene-d8 (Surr)* | *90* | | *80 - 120* | | *10/28/25 07:00* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *73 - 120* | | *10/28/25 07:00* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *75 - 123* | | *10/28/25 07:00* | *1* |

### Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **GRO** | **110** | | 50 | 23 | ug/L | | | 10/31/25 19:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *99* | | *63 - 135* | | *10/31/25 19:55* | *1* |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-1B
**Lab Sample ID: 480-233913-15**
**Date Collected: 10/23/25 09:45**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

### Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 920 | 570 | ug/L | | 10/30/25 15:53 | 11/01/25 07:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *84* | | *32 - 125* | *10/30/25 15:53* | *11/01/25 07:40* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.022** | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 10/30/25 20:15 | 1 |
| **Iron** | **21.8** | | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 10/30/25 20:15 | 1 |
| **Manganese** | **11.0** | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 10/30/25 20:15 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **86.5** | | 5.0 | 4.0 | mg/L | | | 10/28/25 11:19 | 1 |
| **Ammonia (EPA 350.1)** | **3.6** | | 0.25 | 0.045 | mg/L | | | 10/29/25 11:08 | 5 |
| Nitrate-Nitrite (EPA 353.2) | ND | | 0.050 | 0.020 | mg/L | | | 10/25/25 16:48 | 1 |
| **Sulfate (ASTM D516-90, 02)** | **8.3** | | 5.0 | 1.5 | mg/L | | | 10/28/25 15:17 | 1 |
| **Total Organic Carbon (SM 5310C)** | **1.9** | | 1.0 | 0.43 | mg/L | | | 10/29/25 02:31 | 1 |

## Client Sample ID: MW-1C
**Date Collected: 10/23/25 10:05**
**Date Received: 10/24/25 10:00**

## Lab Sample ID: 480-233913-16
**Matrix: Water**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 07:25 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 07:25 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 07:25 | 1 |
| **1,1-Dichloroethane** | **1.4** | **J** | 5.0 | 0.38 | ug/L | | | 10/28/25 07:25 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 07:25 | 1 |
| **1,2-Dichlorobenzene** | **1.5** | **J** | 5.0 | 0.79 | ug/L | | | 10/28/25 07:25 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 07:25 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 07:25 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 10/28/25 07:25 | 1 |
| **1,4-Dichlorobenzene** | **5.5** | | 5.0 | 0.84 | ug/L | | | 10/28/25 07:25 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 07:25 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 07:25 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 07:25 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 07:25 | 1 |
| **Benzene** | **0.53** | **J** | 5.0 | 0.41 | ug/L | | | 10/28/25 07:25 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 07:25 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 07:25 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 07:25 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 07:25 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 07:25 | 1 |
| **Chlorobenzene** | **10** | | 5.0 | 0.75 | ug/L | | | 10/28/25 07:25 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 07:25 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 07:25 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 07:25 | 1 |
| Chloromethane | ND | F1 | 5.0 | 0.35 | ug/L | | | 10/28/25 07:25 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 07:25 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 07:25 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 07:25 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 07:25 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 07:25 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 07:25 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 07:25 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 07:25 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 07:25 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 07:25 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 07:25 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 07:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *77 - 120* | | *10/28/25 07:25* | *1* |
| *Toluene-d8 (Surr)* | *88* | | *80 - 120* | | *10/28/25 07:25* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *73 - 120* | | *10/28/25 07:25* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *75 - 123* | | *10/28/25 07:25* | *1* |

### Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO | ND | | 50 | 23 | ug/L | | | 10/31/25 12:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *99* | | *63 - 135* | | *10/31/25 12:38* | *1* |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-1C
**Lab Sample ID: 480-233913-16**
**Date Collected: 10/23/25 10:05**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

### Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 950 | 590 | ug/L | | 10/30/25 15:53 | 11/01/25 06:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *83* | | *32 - 125* | *10/30/25 15:53* | *11/01/25 06:32* | *1* |

### Method: SW846 EPA 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.060** | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 10/30/25 20:17 | 1 |
| **Iron** | **43.7** | | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 10/30/25 20:17 | 1 |
| **Manganese** | **22.8** | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 10/30/25 20:17 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity, Total (EPA 310.2)** | **160** | | 25.0 | 20.0 | mg/L | | | 10/28/25 11:26 | 5 |
| **Ammonia (EPA 350.1)** | **5.3** | | 0.25 | 0.045 | mg/L | | | 10/29/25 11:15 | 5 |
| **Nitrate-Nitrite (EPA 353.2)** | **0.025** | **J F1** | 0.050 | 0.020 | mg/L | | | 10/25/25 16:17 | 1 |
| Sulfate (ASTM D516-90, 02) | ND | F1 F2 | 5.0 | 1.5 | mg/L | | | 10/28/25 13:37 | 1 |
| **Total Organic Carbon (SM 5310C)** | **4.2** | | 1.0 | 0.43 | mg/L | | | 10/29/25 00:34 | 1 |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: TRIP BLANK 1
**Lab Sample ID: 480-233913-17**
**Date Collected: 10/22/25 00:00**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 07:49 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 07:49 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 07:49 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 10/28/25 07:49 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 07:49 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 10/28/25 07:49 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 07:49 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 07:49 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 10/28/25 07:49 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 10/28/25 07:49 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 07:49 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 07:49 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 07:49 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 07:49 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 10/28/25 07:49 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 07:49 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 07:49 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 07:49 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 07:49 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 07:49 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 10/28/25 07:49 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 07:49 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 07:49 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 07:49 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 07:49 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 07:49 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 07:49 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 07:49 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 07:49 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 07:49 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 07:49 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 07:49 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 07:49 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 07:49 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 07:49 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 07:49 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 07:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *77 - 120* | | *10/28/25 07:49* | *1* |
| *Toluene-d8 (Surr)* | *92* | | *80 - 120* | | *10/28/25 07:49* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *73 - 120* | | *10/28/25 07:49* | *1* |
| *Dibromofluoromethane (Surr)* | *91* | | *75 - 123* | | *10/28/25 07:49* | *1* |

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: TRIP BLANK 2
**Lab Sample ID: 480-233913-18**

**Date Collected: 10/23/25 00:00**
**Matrix: Distilled Water**
**Date Received: 10/24/25 10:00**

### Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 08:12 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 08:12 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 08:12 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 10/28/25 08:12 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 08:12 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 10/28/25 08:12 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 08:12 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 08:12 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 10/28/25 08:12 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 10/28/25 08:12 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 08:12 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 08:12 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 08:12 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 08:12 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 10/28/25 08:12 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 08:12 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 08:12 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 08:12 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 08:12 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 08:12 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 10/28/25 08:12 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 08:12 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 08:12 | 1 |
| **Chloroform** | **0.48** | **J** | 5.0 | 0.34 | ug/L | | | 10/28/25 08:12 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 08:12 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 08:12 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 08:12 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 08:12 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 08:12 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 08:12 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 08:12 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 08:12 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 08:12 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 08:12 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 08:12 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 08:12 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 08:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *77 - 120* | | *10/28/25 08:12* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *80 - 120* | | *10/28/25 08:12* | *1* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *73 - 120* | | *10/28/25 08:12* | *1* |
| *Dibromofluoromethane (Surr)* | *94* | | *75 - 123* | | *10/28/25 08:12* | *1* |

# Surrogate Summary

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

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

### Matrix: Distilled Water

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | TOL | BFB | DBFM |
| Lab Sample ID | Client Sample ID | (77-120) | (80-120) | (73-120) | (75-123) |
| 480-233913-18 | TRIP BLANK 2 | 99 | 95 | 103 | 94 |

**Surrogate Legend**

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

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

### Matrix: Ground Water

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | TOL | BFB | DBFM |
| Lab Sample ID | Client Sample ID | (77-120) | (80-120) | (73-120) | (75-123) |
| 480-233913-3 | MW-7M | 94 | 93 | 104 | 94 |
| 480-233913-4 | MW-18B | 99 | 92 | 101 | 97 |
| 480-233913-5 | MW-18C | 100 | 93 | 100 | 95 |
| 480-233913-6 | MW-20A | 96 | 89 | 90 | 92 |
| 480-233913-7 | MW-20B | 97 | 92 | 105 | 95 |
| 480-233913-8 | MW-19 | 95 | 92 | 102 | 92 |
| 480-233913-9 | MW-21 | 96 | 90 | 96 | 92 |
| 480-233913-10 | MW-22 | 94 | 91 | 96 | 92 |
| 480-233913-11 | FDUP-02-GW | 97 | 90 | 99 | 90 |

**Surrogate Legend**

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

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

### Matrix: Water

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | TOL | BFB | DBFM |
| Lab Sample ID | Client Sample ID | (77-120) | (80-120) | (73-120) | (75-123) |
| 480-233913-1 | MW-6A | 96 | 88 | 94 | 92 |
| 480-233913-2 | MW-6B | 95 | 90 | 97 | 93 |
| 480-233913-12 | EX-1 | 102 | 91 | 102 | 97 |
| 480-233913-13 | FDUP-01-GW | 98 | 89 | 96 | 92 |
| 480-233913-14 | MW-10 | 96 | 89 | 95 | 89 |
| 480-233913-15 | MW-1B | 96 | 90 | 98 | 92 |
| 480-233913-16 | MW-1C | 99 | 88 | 97 | 97 |
| 480-233913-16 MS | MW-1C | 96 | 94 | 105 | 91 |
| 480-233913-16 MSD | MW-1C | 97 | 91 | 103 | 92 |
| 480-233913-17 | TRIP BLANK 1 | 96 | 92 | 100 | 91 |
| LCS 480-760871/6 | Lab Control Sample | 99 | 92 | 100 | 93 |
| LCS 480-760950/6 | Lab Control Sample | 106 | 92 | 103 | 92 |
| LCSD 480-760950/7 | Lab Control Sample Dup | 99 | 91 | 97 | 92 |
| MB 480-760871/8 | Method Blank | 98 | 90 | 99 | 93 |
| MB 480-760950/9 | Method Blank | 95 | 93 | 102 | 93 |

# Surrogate Summary

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

**Surrogate Legend**

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

## Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID** | **Client Sample ID** | **TFT-F1 (63-135)** | | | | | | | | | | |
| 480-233913-12 | EX-1 | 96 | | | | | | | | | | |
| 480-233913-13 | FDUP-01-GW | 96 | | | | | | | | | | |
| 480-233913-14 | MW-10 | 101 | | | | | | | | | | |
| 480-233913-15 | MW-1B | 99 | | | | | | | | | | |
| 480-233913-16 | MW-1C | 99 | | | | | | | | | | |
| 480-233913-16 MS | MW-1C | 87 | | | | | | | | | | |
| 480-233913-16 MSD | MW-1C | 87 | | | | | | | | | | |
| LCS 410-721941/6 | Lab Control Sample | 87 | | | | | | | | | | |
| LCS 410-722619/6 | Lab Control Sample | 87 | | | | | | | | | | |
| LCSD 410-721941/7 | Lab Control Sample Dup | 88 | | | | | | | | | | |
| LCSD 410-722619/7 | Lab Control Sample Dup | 88 | | | | | | | | | | |
| MB 410-721941/5 | Method Blank | 97 | | | | | | | | | | |
| MB 410-722619/5 | Method Blank | 95 | | | | | | | | | | |

**Surrogate Legend**

TFT-F = a,a,a-Trifluorotoluene (fid)

## Method: 8015D - Diesel Range Organics (DRO) (GC)

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

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID** | **Client Sample ID** | **OTP (32-125)** | | | | | | | | | | |
| 480-233913-12 | EX-1 | 82 | | | | | | | | | | |
| 480-233913-13 | FDUP-01-GW | 68 | | | | | | | | | | |
| 480-233913-14 | MW-10 | 74 | | | | | | | | | | |
| 480-233913-15 | MW-1B | 84 | | | | | | | | | | |
| 480-233913-16 | MW-1C | 83 | | | | | | | | | | |
| 480-233913-16 MS | MW-1C | 71 | | | | | | | | | | |
| 480-233913-16 MSD | MW-1C | 78 | | | | | | | | | | |
| LCS 410-721700/2-A | Lab Control Sample | 70 | | | | | | | | | | |
| LCS 410-722325/2-A | Lab Control Sample | 75 | | | | | | | | | | |
| LCS 410-722355/2-A | Lab Control Sample | 61 | | | | | | | | | | |
| LCSD 410-721700/3-A | Lab Control Sample Dup | 59 | | | | | | | | | | |
| LCSD 410-722355/3-A | Lab Control Sample Dup | 75 | | | | | | | | | | |
| MB 410-721700/1-A | Method Blank | 74 | | | | | | | | | | |
| MB 410-722325/1-A | Method Blank | 66 | | | | | | | | | | |
| MB 410-722355/1-A | Method Blank | 67 | | | | | | | | | | |

**Surrogate Legend**

OTP = o- terphenyl (Surr)

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

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

**Lab Sample ID: MB 480-760871/8**
**Matrix: Water**
**Analysis Batch: 760871**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 00:40 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 00:40 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 00:40 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 10/28/25 00:40 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 00:40 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 10/28/25 00:40 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 00:40 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 00:40 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 10/28/25 00:40 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 10/28/25 00:40 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 00:40 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 00:40 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 00:40 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 00:40 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 10/28/25 00:40 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 00:40 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 00:40 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 00:40 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 00:40 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 00:40 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 10/28/25 00:40 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 00:40 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 00:40 | 1 |
| Chloroform | ND | | 5.0 | 0.34 | ug/L | | | 10/28/25 00:40 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 00:40 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 00:40 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 00:40 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 00:40 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 00:40 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 00:40 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 00:40 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 00:40 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 00:40 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 00:40 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 00:40 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 00:40 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 00:40 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *77 - 120* | | *10/28/25 00:40* | *1* |
| *Toluene-d8 (Surr)* | *90* | | *80 - 120* | | *10/28/25 00:40* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *73 - 120* | | *10/28/25 00:40* | *1* |
| *Dibromofluoromethane (Surr)* | *93* | | *75 - 123* | | *10/28/25 00:40* | *1* |

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

**Lab Sample ID: LCS 480-760871/6**
**Matrix: Water**
**Analysis Batch: 760871**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 25.0 | 27.0 | | ug/L | | 108 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 23.1 | | ug/L | | 92 | 70 - 126 |
| 1,1,2-Trichloroethane | 25.0 | 25.2 | | ug/L | | 101 | 76 - 122 |
| 1,1-Dichloroethane | 25.0 | 26.3 | | ug/L | | 105 | 71 - 129 |
| 1,1-Dichloroethene | 25.0 | 25.7 | | ug/L | | 103 | 58 - 121 |
| 1,2-Dichlorobenzene | 25.0 | 23.2 | | ug/L | | 93 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 26.6 | | ug/L | | 106 | 75 - 127 |
| 1,2-Dichloropropane | 25.0 | 25.3 | | ug/L | | 101 | 76 - 120 |
| 1,3-Dichlorobenzene | 25.0 | 23.3 | | ug/L | | 93 | 77 - 120 |
| 1,4-Dichlorobenzene | 25.0 | 24.1 | | ug/L | | 96 | 75 - 120 |
| 2-Hexanone | 125 | 133 | | ug/L | | 106 | 65 - 127 |
| 2-Butanone (MEK) | 125 | 137 | | ug/L | | 110 | 57 - 140 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 133 | | ug/L | | 107 | 71 - 125 |
| Acetone | 125 | 138 | | ug/L | | 111 | 56 - 142 |
| Benzene | 25.0 | 24.9 | | ug/L | | 99 | 71 - 124 |
| Bromodichloromethane | 25.0 | 24.9 | | ug/L | | 99 | 80 - 122 |
| Bromoform | 25.0 | 28.8 | | ug/L | | 115 | 66 - 128 |
| Bromomethane | 25.0 | 21.2 | | ug/L | | 85 | 55 - 144 |
| Carbon disulfide | 25.0 | 24.3 | | ug/L | | 97 | 59 - 134 |
| Carbon tetrachloride | 25.0 | 26.4 | | ug/L | | 106 | 72 - 134 |
| Chlorobenzene | 25.0 | 23.3 | | ug/L | | 93 | 72 - 120 |
| Dibromochloromethane | 25.0 | 25.6 | | ug/L | | 102 | 75 - 125 |
| Chloroethane | 25.0 | 25.5 | | ug/L | | 102 | 69 - 136 |
| Chloroform | 25.0 | 24.7 | | ug/L | | 99 | 73 - 127 |
| Chloromethane | 25.0 | 25.5 | | ug/L | | 102 | 68 - 124 |
| cis-1,2-Dichloroethene | 25.0 | 24.4 | | ug/L | | 98 | 74 - 124 |
| cis-1,3-Dichloropropene | 25.0 | 24.0 | | ug/L | | 96 | 74 - 124 |
| Ethylbenzene | 25.0 | 24.1 | | ug/L | | 96 | 77 - 123 |
| Methylene Chloride | 25.0 | 26.7 | | ug/L | | 107 | 57 - 132 |
| Styrene | 25.0 | 24.4 | | ug/L | | 97 | 70 - 130 |
| Tetrachloroethene | 25.0 | 25.7 | | ug/L | | 103 | 74 - 122 |
| Toluene | 25.0 | 24.3 | | ug/L | | 97 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 24.9 | | ug/L | | 99 | 73 - 127 |
| trans-1,3-Dichloropropene | 25.0 | 24.3 | | ug/L | | 97 | 72 - 123 |
| Trichloroethene | 25.0 | 24.2 | | ug/L | | 97 | 74 - 123 |
| Vinyl chloride | 25.0 | 24.6 | | ug/L | | 98 | 65 - 133 |
| Xylenes, Total | 50.0 | 49.2 | | ug/L | | 98 | 76 - 122 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *77 - 120* |
| *Toluene-d8 (Surr)* | *92* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *73 - 120* |
| *Dibromofluoromethane (Surr)* | *93* | | *75 - 123* |

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

**Lab Sample ID: 480-233913-16 MS**
**Matrix: Water**
**Analysis Batch: 760871**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 25.0 | 28.7 | | ug/L | | 115 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | ND | | 25.0 | 23.8 | | ug/L | | 95 | 76 - 120 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 26.1 | | ug/L | | 104 | 76 - 122 |
| 1,1-Dichloroethane | 1.4 | J | 25.0 | 28.5 | | ug/L | | 109 | 77 - 120 |
| 1,1-Dichloroethene | ND | | 25.0 | 26.9 | | ug/L | | 107 | 66 - 127 |
| 1,2-Dichlorobenzene | 1.5 | J | 25.0 | 25.6 | | ug/L | | 96 | 80 - 124 |
| 1,2-Dichloroethane | ND | | 25.0 | 28.2 | | ug/L | | 113 | 75 - 120 |
| 1,2-Dichloropropane | ND | | 25.0 | 26.7 | | ug/L | | 107 | 76 - 120 |
| 1,3-Dichlorobenzene | ND | | 25.0 | 25.5 | | ug/L | | 102 | 77 - 120 |
| 1,4-Dichlorobenzene | 5.5 | | 25.0 | 29.5 | | ug/L | | 96 | 78 - 124 |
| 2-Hexanone | ND | | 125 | 142 | | ug/L | | 114 | 65 - 127 |
| 2-Butanone (MEK) | ND | | 125 | 142 | | ug/L | | 114 | 57 - 140 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 125 | 142 | | ug/L | | 114 | 71 - 125 |
| Acetone | ND | | 125 | 146 | | ug/L | | 117 | 56 - 142 |
| Benzene | 0.53 | J | 25.0 | 26.6 | | ug/L | | 104 | 71 - 124 |
| Bromodichloromethane | ND | | 25.0 | 25.0 | | ug/L | | 100 | 80 - 122 |
| Bromoform | ND | | 25.0 | 26.5 | | ug/L | | 106 | 61 - 132 |
| Bromomethane | ND | | 25.0 | 24.6 | | ug/L | | 99 | 55 - 144 |
| Carbon disulfide | ND | | 25.0 | 22.7 | | ug/L | | 91 | 59 - 134 |
| Carbon tetrachloride | ND | | 25.0 | 27.2 | | ug/L | | 109 | 72 - 134 |
| Chlorobenzene | 10 | | 25.0 | 35.5 | | ug/L | | 101 | 80 - 120 |
| Dibromochloromethane | ND | | 25.0 | 25.8 | | ug/L | | 103 | 75 - 125 |
| Chloroethane | ND | | 25.0 | 30.4 | | ug/L | | 122 | 69 - 136 |
| Chloroform | ND | | 25.0 | 25.1 | | ug/L | | 101 | 73 - 127 |
| Chloromethane | ND | F1 | 25.0 | 36.2 | F1 | ug/L | | 145 | 68 - 124 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 26.0 | | ug/L | | 104 | 74 - 124 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 23.3 | | ug/L | | 93 | 74 - 124 |
| Ethylbenzene | ND | | 25.0 | 25.8 | | ug/L | | 103 | 77 - 123 |
| Methylene Chloride | ND | | 25.0 | 28.2 | | ug/L | | 113 | 75 - 124 |
| Styrene | ND | | 25.0 | 23.3 | | ug/L | | 93 | 80 - 120 |
| Tetrachloroethene | ND | | 25.0 | 27.2 | | ug/L | | 109 | 74 - 122 |
| Toluene | ND | | 25.0 | 26.3 | | ug/L | | 105 | 80 - 122 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 25.9 | | ug/L | | 104 | 73 - 127 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 23.7 | | ug/L | | 95 | 80 - 120 |
| Trichloroethene | ND | | 25.0 | 25.4 | | ug/L | | 102 | 74 - 123 |
| Vinyl chloride | ND | | 25.0 | 31.5 | | ug/L | | 126 | 65 - 133 |
| Xylenes, Total | ND | | 50.0 | 51.2 | | ug/L | | 102 | 76 - 122 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *77 - 120* |
| *Toluene-d8 (Surr)* | *94* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *73 - 120* |
| *Dibromofluoromethane (Surr)* | *91* | | *75 - 123* |

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

**Lab Sample ID: 480-233913-16 MSD**
**Matrix: Water**
**Analysis Batch: 760871**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 25.0 | 28.8 | | ug/L | | 115 | 73 - 126 | 0 | 15 |
| 1,1,2,2-Tetrachloroethane | ND | | 25.0 | 24.0 | | ug/L | | 96 | 76 - 120 | 1 | 15 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 26.5 | | ug/L | | 106 | 76 - 122 | 1 | 15 |
| 1,1-Dichloroethane | 1.4 | J | 25.0 | 29.2 | | ug/L | | 111 | 77 - 120 | 2 | 20 |
| 1,1-Dichloroethene | ND | | 25.0 | 26.9 | | ug/L | | 108 | 66 - 127 | 0 | 16 |
| 1,2-Dichlorobenzene | 1.5 | J | 25.0 | 25.5 | | ug/L | | 96 | 80 - 124 | 0 | 20 |
| 1,2-Dichloroethane | ND | | 25.0 | 28.0 | | ug/L | | 112 | 75 - 120 | 1 | 20 |
| 1,2-Dichloropropane | ND | | 25.0 | 26.7 | | ug/L | | 107 | 76 - 120 | 0 | 20 |
| 1,3-Dichlorobenzene | ND | | 25.0 | 25.4 | | ug/L | | 101 | 77 - 120 | 1 | 20 |
| 1,4-Dichlorobenzene | 5.5 | | 25.0 | 30.2 | | ug/L | | 99 | 78 - 124 | 2 | 20 |
| 2-Hexanone | ND | | 125 | 141 | | ug/L | | 113 | 65 - 127 | 1 | 15 |
| 2-Butanone (MEK) | ND | | 125 | 142 | | ug/L | | 113 | 57 - 140 | 1 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 125 | 141 | | ug/L | | 113 | 71 - 125 | 1 | 35 |
| Acetone | ND | | 125 | 147 | | ug/L | | 118 | 56 - 142 | 0 | 15 |
| Benzene | 0.53 | J | 25.0 | 26.4 | | ug/L | | 104 | 71 - 124 | 1 | 13 |
| Bromodichloromethane | ND | | 25.0 | 25.6 | | ug/L | | 103 | 80 - 122 | 3 | 15 |
| Bromoform | ND | | 25.0 | 27.5 | | ug/L | | 110 | 61 - 132 | 4 | 15 |
| Bromomethane | ND | | 25.0 | 24.8 | | ug/L | | 99 | 55 - 144 | 1 | 15 |
| Carbon disulfide | ND | | 25.0 | 23.5 | | ug/L | | 94 | 59 - 134 | 4 | 15 |
| Carbon tetrachloride | ND | | 25.0 | 27.7 | | ug/L | | 111 | 72 - 134 | 2 | 15 |
| Chlorobenzene | 10 | | 25.0 | 35.7 | | ug/L | | 102 | 80 - 120 | 1 | 25 |
| Dibromochloromethane | ND | | 25.0 | 25.9 | | ug/L | | 103 | 75 - 125 | 0 | 15 |
| Chloroethane | ND | | 25.0 | 30.3 | | ug/L | | 121 | 69 - 136 | 0 | 15 |
| Chloroform | ND | | 25.0 | 25.8 | | ug/L | | 103 | 73 - 127 | 3 | 20 |
| Chloromethane | ND | F1 | 25.0 | 35.3 | F1 | ug/L | | 141 | 68 - 124 | 2 | 15 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 25.6 | | ug/L | | 103 | 74 - 124 | 1 | 15 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 23.7 | | ug/L | | 95 | 74 - 124 | 2 | 15 |
| Ethylbenzene | ND | | 25.0 | 25.8 | | ug/L | | 103 | 77 - 123 | 0 | 15 |
| Methylene Chloride | ND | | 25.0 | 28.1 | | ug/L | | 113 | 75 - 124 | 0 | 15 |
| Styrene | ND | | 25.0 | 23.4 | | ug/L | | 93 | 80 - 120 | 0 | 20 |
| Tetrachloroethene | ND | | 25.0 | 27.2 | | ug/L | | 109 | 74 - 122 | 0 | 20 |
| Toluene | ND | | 25.0 | 26.0 | | ug/L | | 104 | 80 - 122 | 1 | 15 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 26.2 | | ug/L | | 105 | 73 - 127 | 1 | 20 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 24.0 | | ug/L | | 96 | 80 - 120 | 1 | 15 |
| Trichloroethene | ND | | 25.0 | 25.7 | | ug/L | | 103 | 74 - 123 | 1 | 16 |
| Vinyl chloride | ND | | 25.0 | 31.2 | | ug/L | | 125 | 65 - 133 | 1 | 15 |
| Xylenes, Total | ND | | 50.0 | 52.0 | | ug/L | | 104 | 76 - 122 | 2 | 16 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *77 - 120* |
| *Toluene-d8 (Surr)* | *91* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *73 - 120* |
| *Dibromofluoromethane (Surr)* | *92* | | *75 - 123* |

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

**Lab Sample ID: MB 480-760950/9**
**Matrix: Water**
**Analysis Batch: 760950**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.82 | ug/L | | | 10/28/25 12:44 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 12:44 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.23 | ug/L | | | 10/28/25 12:44 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.38 | ug/L | | | 10/28/25 12:44 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.29 | ug/L | | | 10/28/25 12:44 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.79 | ug/L | | | 10/28/25 12:44 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.21 | ug/L | | | 10/28/25 12:44 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.72 | ug/L | | | 10/28/25 12:44 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.78 | ug/L | | | 10/28/25 12:44 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.84 | ug/L | | | 10/28/25 12:44 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/28/25 12:44 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.3 | ug/L | | | 10/28/25 12:44 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/28/25 12:44 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/28/25 12:44 | 1 |
| Benzene | ND | | 5.0 | 0.41 | ug/L | | | 10/28/25 12:44 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.39 | ug/L | | | 10/28/25 12:44 | 1 |
| Bromoform | ND | | 5.0 | 0.26 | ug/L | | | 10/28/25 12:44 | 1 |
| Bromomethane | ND | | 5.0 | 0.69 | ug/L | | | 10/28/25 12:44 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.19 | ug/L | | | 10/28/25 12:44 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.27 | ug/L | | | 10/28/25 12:44 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.75 | ug/L | | | 10/28/25 12:44 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 12:44 | 1 |
| Chloroethane | ND | | 5.0 | 0.32 | ug/L | | | 10/28/25 12:44 | 1 |
| Chloroform | 0.563 | J | 5.0 | 0.34 | ug/L | | | 10/28/25 12:44 | 1 |
| Chloromethane | ND | | 5.0 | 0.35 | ug/L | | | 10/28/25 12:44 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/28/25 12:44 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 12:44 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.74 | ug/L | | | 10/28/25 12:44 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.44 | ug/L | | | 10/28/25 12:44 | 1 |
| Styrene | ND | | 5.0 | 0.73 | ug/L | | | 10/28/25 12:44 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.36 | ug/L | | | 10/28/25 12:44 | 1 |
| Toluene | ND | | 5.0 | 0.51 | ug/L | | | 10/28/25 12:44 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/28/25 12:44 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.37 | ug/L | | | 10/28/25 12:44 | 1 |
| Trichloroethene | ND | | 5.0 | 0.46 | ug/L | | | 10/28/25 12:44 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.90 | ug/L | | | 10/28/25 12:44 | 1 |
| Xylenes, Total | ND | | 5.0 | 0.66 | ug/L | | | 10/28/25 12:44 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *95* | | *77 - 120* | | *10/28/25 12:44* | *1* |
| *Toluene-d8 (Surr)* | *93* | | *80 - 120* | | *10/28/25 12:44* | *1* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *73 - 120* | | *10/28/25 12:44* | *1* |
| *Dibromofluoromethane (Surr)* | *93* | | *75 - 123* | | *10/28/25 12:44* | *1* |

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

**Lab Sample ID: LCS 480-760950/6**
**Matrix: Water**
**Analysis Batch: 760950**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 25.0 | 26.7 | | ug/L | | 107 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 22.3 | | ug/L | | 89 | 70 - 126 |
| 1,1,2-Trichloroethane | 25.0 | 24.5 | | ug/L | | 98 | 76 - 122 |
| 1,1-Dichloroethane | 25.0 | 25.6 | | ug/L | | 102 | 71 - 129 |
| 1,1-Dichloroethene | 25.0 | 23.6 | | ug/L | | 94 | 58 - 121 |
| 1,2-Dichlorobenzene | 25.0 | 22.8 | | ug/L | | 91 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 26.9 | | ug/L | | 107 | 75 - 127 |
| 1,2-Dichloropropane | 25.0 | 25.5 | | ug/L | | 102 | 76 - 120 |
| 1,3-Dichlorobenzene | 25.0 | 22.6 | | ug/L | | 91 | 77 - 120 |
| 1,4-Dichlorobenzene | 25.0 | 23.3 | | ug/L | | 93 | 75 - 120 |
| 2-Hexanone | 125 | 130 | | ug/L | | 104 | 65 - 127 |
| 2-Butanone (MEK) | 125 | 235 | *+ | ug/L | | 188 | 57 - 140 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 133 | | ug/L | | 106 | 71 - 125 |
| Acetone | 125 | 132 | | ug/L | | 105 | 56 - 142 |
| Benzene | 25.0 | 23.6 | | ug/L | | 95 | 71 - 124 |
| Bromodichloromethane | 25.0 | 25.2 | | ug/L | | 101 | 80 - 122 |
| Bromoform | 25.0 | 28.7 | | ug/L | | 115 | 66 - 128 |
| Bromomethane | 25.0 | 22.9 | | ug/L | | 92 | 55 - 144 |
| Carbon disulfide | 25.0 | 23.1 | | ug/L | | 93 | 59 - 134 |
| Carbon tetrachloride | 25.0 | 26.3 | | ug/L | | 105 | 72 - 134 |
| Chlorobenzene | 25.0 | 22.7 | | ug/L | | 91 | 72 - 120 |
| Dibromochloromethane | 25.0 | 25.7 | | ug/L | | 103 | 75 - 125 |
| Chloroethane | 25.0 | 26.8 | | ug/L | | 107 | 69 - 136 |
| Chloroform | 25.0 | 24.4 | | ug/L | | 97 | 73 - 127 |
| Chloromethane | 25.0 | 29.8 | | ug/L | | 119 | 68 - 124 |
| cis-1,2-Dichloroethene | 25.0 | 24.2 | | ug/L | | 97 | 74 - 124 |
| cis-1,3-Dichloropropene | 25.0 | 25.7 | | ug/L | | 103 | 74 - 124 |
| Ethylbenzene | 25.0 | 23.8 | | ug/L | | 95 | 77 - 123 |
| Methylene Chloride | 25.0 | 25.5 | | ug/L | | 102 | 57 - 132 |
| Styrene | 25.0 | 23.8 | | ug/L | | 95 | 70 - 130 |
| Tetrachloroethene | 25.0 | 26.5 | | ug/L | | 106 | 74 - 122 |
| Toluene | 25.0 | 24.2 | | ug/L | | 97 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 23.8 | | ug/L | | 95 | 73 - 127 |
| trans-1,3-Dichloropropene | 25.0 | 25.8 | | ug/L | | 103 | 72 - 123 |
| Trichloroethene | 25.0 | 23.9 | | ug/L | | 95 | 74 - 123 |
| Vinyl chloride | 25.0 | 25.4 | | ug/L | | 102 | 65 - 133 |
| Xylenes, Total | 50.0 | 48.0 | | ug/L | | 96 | 76 - 122 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *77 - 120* |
| *Toluene-d8 (Surr)* | *92* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *73 - 120* |
| *Dibromofluoromethane (Surr)* | *92* | | *75 - 123* |

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

**Lab Sample ID: LCSD 480-760950/7**
**Matrix: Water**
**Analysis Batch: 760950**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | | | 25.0 | 26.8 | | ug/L | | 107 | 73 - 126 | 0 | 15 |
| 1,1,2,2-Tetrachloroethane | | | 25.0 | 21.9 | | ug/L | | 88 | 70 - 126 | 2 | 15 |
| 1,1,2-Trichloroethane | | | 25.0 | 25.1 | | ug/L | | 101 | 76 - 122 | 2 | 15 |
| 1,1-Dichloroethane | | | 25.0 | 26.5 | | ug/L | | 106 | 71 - 129 | 3 | 20 |
| 1,1-Dichloroethene | | | 25.0 | 24.7 | | ug/L | | 99 | 58 - 121 | 4 | 16 |
| 1,2-Dichlorobenzene | | | 25.0 | 22.8 | | ug/L | | 91 | 80 - 124 | 0 | 20 |
| 1,2-Dichloroethane | | | 25.0 | 27.1 | | ug/L | | 108 | 75 - 127 | 1 | 20 |
| 1,2-Dichloropropane | | | 25.0 | 24.3 | | ug/L | | 97 | 76 - 120 | 5 | 20 |
| 1,3-Dichlorobenzene | | | 25.0 | 22.8 | | ug/L | | 91 | 77 - 120 | 1 | 20 |
| 1,4-Dichlorobenzene | | | 25.0 | 23.6 | | ug/L | | 94 | 75 - 120 | 1 | 20 |
| 2-Hexanone | | | 125 | 126 | | ug/L | | 100 | 65 - 127 | 3 | 15 |
| 2-Butanone (MEK) | | | 125 | 224 | *+ | ug/L | | 179 | 57 - 140 | 5 | 20 |
| 4-Methyl-2-pentanone (MIBK) | | | 125 | 128 | | ug/L | | 103 | 71 - 125 | 4 | 35 |
| Acetone | | | 125 | 121 | | ug/L | | 97 | 56 - 142 | 8 | 15 |
| Benzene | | | 25.0 | 24.4 | | ug/L | | 97 | 71 - 124 | 3 | 13 |
| Bromodichloromethane | | | 25.0 | 25.5 | | ug/L | | 102 | 80 - 122 | 1 | 15 |
| Bromoform | | | 25.0 | 28.6 | | ug/L | | 114 | 66 - 128 | 0 | 15 |
| Bromomethane | | | 25.0 | 23.2 | | ug/L | | 93 | 55 - 144 | 1 | 15 |
| Carbon disulfide | | | 25.0 | 22.6 | | ug/L | | 91 | 59 - 134 | 2 | 15 |
| Carbon tetrachloride | | | 25.0 | 26.8 | | ug/L | | 107 | 72 - 134 | 2 | 15 |
| Chlorobenzene | | | 25.0 | 23.3 | | ug/L | | 93 | 72 - 120 | 3 | 25 |
| Dibromochloromethane | | | 25.0 | 26.2 | | ug/L | | 105 | 75 - 125 | 2 | 15 |
| Chloroethane | | | 25.0 | 26.9 | | ug/L | | 108 | 69 - 136 | 1 | 15 |
| Chloroform | | | 25.0 | 25.0 | | ug/L | | 100 | 73 - 127 | 3 | 20 |
| Chloromethane | | | 25.0 | 30.3 | | ug/L | | 121 | 68 - 124 | 2 | 15 |
| cis-1,2-Dichloroethene | | | 25.0 | 24.5 | | ug/L | | 98 | 74 - 124 | 1 | 15 |
| cis-1,3-Dichloropropene | | | 25.0 | 25.9 | | ug/L | | 104 | 74 - 124 | 1 | 15 |
| Ethylbenzene | | | 25.0 | 24.2 | | ug/L | | 97 | 77 - 123 | 2 | 15 |
| Methylene Chloride | | | 25.0 | 25.7 | | ug/L | | 103 | 57 - 132 | 1 | 15 |
| Styrene | | | 25.0 | 24.4 | | ug/L | | 97 | 70 - 130 | 2 | 20 |
| Tetrachloroethene | | | 25.0 | 27.9 | | ug/L | | 112 | 74 - 122 | 5 | 20 |
| Toluene | | | 25.0 | 24.4 | | ug/L | | 98 | 80 - 122 | 1 | 15 |
| trans-1,2-Dichloroethene | | | 25.0 | 24.0 | | ug/L | | 96 | 73 - 127 | 1 | 20 |
| trans-1,3-Dichloropropene | | | 25.0 | 26.0 | | ug/L | | 104 | 72 - 123 | 1 | 15 |
| Trichloroethene | | | 25.0 | 24.3 | | ug/L | | 97 | 74 - 123 | 2 | 16 |
| Vinyl chloride | | | 25.0 | 26.5 | | ug/L | | 106 | 65 - 133 | 4 | 15 |
| Xylenes, Total | | | 50.0 | 49.7 | | ug/L | | 99 | 76 - 122 | 3 | 16 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *77 - 120* |
| *Toluene-d8 (Surr)* | *91* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *73 - 120* |
| *Dibromofluoromethane (Surr)* | *92* | | *75 - 123* |

## Method: 8015D - Gasoline Range Organics (GRO) (GC)

**Lab Sample ID: MB 410-721941/5**
**Matrix: Water**
**Analysis Batch: 721941**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO | ND | | 50 | 23 | ug/L | | | 10/30/25 10:03 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *97* | | *63 - 135* | | *10/30/25 10:03* | *1* |

**Lab Sample ID: LCS 410-721941/6**
**Matrix: Water**
**Analysis Batch: 721941**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline (Unleaded) | | | 1100 | 960 | | ug/L | | 87 | 66 - 120 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *87* | | *63 - 135* |

**Lab Sample ID: LCSD 410-721941/7**
**Matrix: Water**
**Analysis Batch: 721941**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline (Unleaded) | | | 1100 | 955 | | ug/L | | 87 | 66 - 120 | 1 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *88* | | *63 - 135* |

**Lab Sample ID: MB 410-722619/5**
**Matrix: Water**
**Analysis Batch: 722619**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO | ND | | 50 | 23 | ug/L | | | 10/31/25 10:29 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *95* | | *63 - 135* | | *10/31/25 10:29* | *1* |

**Lab Sample ID: LCS 410-722619/6**
**Matrix: Water**
**Analysis Batch: 722619**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline (Unleaded) | | | 1100 | 1000 | | ug/L | | 91 | 66 - 120 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *87* | | *63 - 135* |

## Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

**Lab Sample ID: LCSD 410-722619/7**
**Matrix: Water**
**Analysis Batch: 722619**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline (Unleaded) | | | 1100 | 1000 | | ug/L | | 91 | 66 - 120 | 0 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *88* | | *63 - 135* |

**Lab Sample ID: 480-233913-16 MS**
**Matrix: Water**
**Analysis Batch: 722619**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline (Unleaded) | 33 | J F1 | 1140 | 771 | F1 | ug/L | | 65 | 66 - 120 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *87* | | *63 - 135* |

**Lab Sample ID: 480-233913-16 MSD**
**Matrix: Water**
**Analysis Batch: 722619**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline (Unleaded) | 33 | J F1 | 1140 | 886 | | ug/L | | 75 | 66 - 120 | 14 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene (fid)* | *87* | | *63 - 135* |

## Method: 8015D - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 410-721700/1-A**
**Matrix: Water**
**Analysis Batch: 722412**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 721700**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 1000 | 620 | ug/L | | 10/29/25 16:49 | 10/30/25 20:30 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *74* | | *32 - 125* | *10/29/25 16:49* | *10/30/25 20:30* | *1* |

**Lab Sample ID: LCS 410-721700/2-A**
**Matrix: Water**
**Analysis Batch: 722412**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 721700**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 603 | ND | | ug/L | | 54 | 38 - 111 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr)* | *70* | | *32 - 125* |

## Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCSD 410-721700/3-A**
**Matrix: Water**
**Analysis Batch: 722412**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 721700**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 603 | ND | | ug/L | | 46 | 38 - 111 | 17 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr)* | *59* | | *32 - 125* |

**Lab Sample ID: MB 410-722325/1-A**
**Matrix: Water**
**Analysis Batch: 722889**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 722325**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 1000 | 620 | ug/L | | 10/30/25 15:53 | 11/01/25 05:46 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *66* | | *32 - 125* | *10/30/25 15:53* | *11/01/25 05:46* | *1* |

**Lab Sample ID: LCS 410-722325/2-A**
**Matrix: Water**
**Analysis Batch: 722889**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 722325**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 600 | ND | | ug/L | | 58 | 38 - 111 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr)* | *75* | | *32 - 125* |

**Lab Sample ID: 480-233913-16 MS**
**Matrix: Water**
**Analysis Batch: 722889**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 722325**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 576 | ND | | ug/L | | NC | 20 - 115 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr)* | *71* | | *32 - 125* |

**Lab Sample ID: 480-233913-16 MSD**
**Matrix: Water**
**Analysis Batch: 722889**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 722325**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 550 | ND | | ug/L | | NC | 20 - 115 | NC | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr)* | *78* | | *32 - 125* |

## Method: 8015D - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 410-722355/1-A**
**Matrix: Water**
**Analysis Batch: 722889**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 722355**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 1000 | 620 | ug/L | | 10/30/25 16:25 | 10/31/25 19:30 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o- terphenyl (Surr)* | *67* | | *32 - 125* | *10/30/25 16:25* | *10/31/25 19:30* | *1* |

**Lab Sample ID: LCS 410-722355/2-A**
**Matrix: Water**
**Analysis Batch: 722889**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 722355**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 600 | 1390 | *+ | ug/L | | 232 | 38 - 111 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr)* | *61* | | *32 - 125* |

**Lab Sample ID: LCSD 410-722355/3-A**
**Matrix: Water**
**Analysis Batch: 722889**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 722355**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 600 | ND | *1 | ug/L | | 85 | 38 - 111 | 93 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *o- terphenyl (Surr)* | *75* | | *32 - 125* |

## Method: EPA 6010D - Metals (ICP)

**Lab Sample ID: MB 480-760838/1-A**
**Matrix: Water**
**Analysis Batch: 761357**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 760838**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.010 | 0.0056 | mg/L | | 10/30/25 09:22 | 10/31/25 10:50 | 1 |
| Manganese | ND | | 0.0050 | 0.00040 | mg/L | | 10/30/25 09:22 | 10/31/25 10:50 | 1 |

**Lab Sample ID: MB 480-760838/1-A**
**Matrix: Water**
**Analysis Batch: 761387**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 760838**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Iron | ND | | 0.15 | 0.019 | mg/L | | 10/30/25 09:22 | 10/31/25 14:20 | 1 |

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

**Lab Sample ID: LCS 480-760838/2-A**
**Matrix: Water**
**Analysis Batch: 761357**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 760838**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 1.00 | 1.10 | | mg/L | | 110 | 80 - 120 |
| Manganese | 0.498 | 0.526 | | mg/L | | 106 | 80 - 120 |

**Lab Sample ID: LCS 480-760838/2-A**
**Matrix: Water**
**Analysis Batch: 761387**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 760838**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Iron | 5.10 | 5.63 | | mg/L | | 110 | 80 - 120 |

**Lab Sample ID: 480-233913-16 MS**
**Matrix: Water**
**Analysis Batch: 761296**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 760838**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.060 | | 1.00 | 1.11 | | mg/L | | 105 | 75 - 125 |
| Iron | 43.7 | | 5.10 | 48.79 | 4 | mg/L | | 100 | 75 - 125 |
| Manganese | 22.8 | | 0.498 | 22.99 | 4 | mg/L | | 44 | 75 - 125 |

**Lab Sample ID: 480-233913-16 MSD**
**Matrix: Water**
**Analysis Batch: 761296**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**
**Prep Batch: 760838**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.060 | | 1.00 | 1.10 | | mg/L | | 104 | 75 - 125 | 1 | 20 |
| Iron | 43.7 | | 5.10 | 48.06 | 4 | mg/L | | 86 | 75 - 125 | 2 | 20 |
| Manganese | 22.8 | | 0.498 | 22.75 | 4 | mg/L | | -3 | 75 - 125 | 1 | 20 |

## Method: 310.2 - Alkalinity

**Lab Sample ID: MB 480-761099/106**
**Matrix: Water**
**Analysis Batch: 761099**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 4.0 | mg/L | | | 10/28/25 11:19 | 1 |

**Lab Sample ID: MB 480-761099/113**
**Matrix: Water**
**Analysis Batch: 761099**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 4.0 | mg/L | | | 10/28/25 11:23 | 1 |

**Lab Sample ID: MB 480-761099/123**
**Matrix: Water**
**Analysis Batch: 761099**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 4.0 | mg/L | | | 10/28/25 11:28 | 1 |

## Method: 310.2 - Alkalinity (Continued)

**Lab Sample ID: MB 480-761099/13**
**Matrix: Water**
**Analysis Batch: 761099**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 4.0 | mg/L | | | 10/28/25 10:00 | 1 |

**Lab Sample ID: MB 480-761099/39**
**Matrix: Water**
**Analysis Batch: 761099**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 4.0 | mg/L | | | 10/28/25 10:36 | 1 |

**Lab Sample ID: MB 480-761099/63**
**Matrix: Water**
**Analysis Batch: 761099**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 4.0 | mg/L | | | 10/28/25 10:55 | 1 |

**Lab Sample ID: MB 480-761099/88**
**Matrix: Water**
**Analysis Batch: 761099**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 4.0 | mg/L | | | 10/28/25 11:10 | 1 |

**Lab Sample ID: MB 480-761099/99**
**Matrix: Water**
**Analysis Batch: 761099**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | ND | | 5.0 | 4.0 | mg/L | | | 10/28/25 11:16 | 1 |

**Lab Sample ID: LCS 480-761099/105**
**Matrix: Water**
**Analysis Batch: 761099**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 50.0 | 49.95 | | mg/L | | 100 | 90 - 110 |

**Lab Sample ID: LCS 480-761099/112**
**Matrix: Water**
**Analysis Batch: 761099**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 50.0 | 45.35 | | mg/L | | 91 | 90 - 110 |

**Lab Sample ID: LCS 480-761099/12**
**Matrix: Water**
**Analysis Batch: 761099**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 50.0 | 51.10 | | mg/L | | 102 | 90 - 110 |

## Method: 310.2 - Alkalinity

**Lab Sample ID: LCS 480-761099/122**
**Matrix: Water**
**Analysis Batch: 761099**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 50.0 | 45.80 | | mg/L | | 92 | 90 - 110 |

**Lab Sample ID: LCS 480-761099/62**
**Matrix: Water**
**Analysis Batch: 761099**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 50.0 | 48.04 | | mg/L | | 96 | 90 - 110 |

**Lab Sample ID: LCS 480-761099/98**
**Matrix: Water**
**Analysis Batch: 761099**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 50.0 | 46.71 | | mg/L | | 93 | 90 - 110 |

**Lab Sample ID: 480-233913-16 MS**
**Matrix: Water**
**Analysis Batch: 761099**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 160 | | 20.0 | 164.0 | 4 | mg/L | | 21 | 60 - 140 |

**Lab Sample ID: 480-233913-16 MSD**
**Matrix: Water**
**Analysis Batch: 761099**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total | 160 | | 20.0 | 151.2 | 4 | mg/L | | -43 | 60 - 140 | 8 | 20 |

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: MB 480-760814/28**
**Matrix: Water**
**Analysis Batch: 760814**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia | ND | | 0.050 | 0.0090 | mg/L | | | 10/25/25 19:10 | 1 |

**Lab Sample ID: MB 480-760814/49**
**Matrix: Water**
**Analysis Batch: 760814**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia | ND | | 0.050 | 0.0090 | mg/L | | | 10/25/25 19:27 | 1 |

## Method: 350.1 - Nitrogen, Ammonia (Continued)

**Lab Sample ID: LCS 480-760814/29**
**Matrix: Water**
**Analysis Batch: 760814**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | | | 1.00 | 0.961 | | mg/L | | 96 | 90 - 110 | | |

**Lab Sample ID: LCS 480-760814/50**
**Matrix: Water**
**Analysis Batch: 760814**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | | | 1.00 | 0.971 | | mg/L | | 97 | 90 - 110 | | |

**Lab Sample ID: 480-233913-1 MS**
**Matrix: Water**
**Analysis Batch: 760814**

**Client Sample ID: MW-6A**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | 0.30 | F1 | 0.0800 | 0.407 | F1 | mg/L | | 131 | 90 - 110 | | |

**Lab Sample ID: MB 480-761122/16**
**Matrix: Water**
**Analysis Batch: 761122**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia | ND | | 0.050 | 0.0090 | mg/L | | | 10/29/25 10:56 | 1 |

**Lab Sample ID: MB 480-761122/36**
**Matrix: Water**
**Analysis Batch: 761122**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia | ND | | 0.050 | 0.0090 | mg/L | | | 10/29/25 11:13 | 1 |

**Lab Sample ID: LCS 480-761122/17**
**Matrix: Water**
**Analysis Batch: 761122**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | | | 1.00 | 0.968 | | mg/L | | 97 | 90 - 110 | | |

**Lab Sample ID: LCS 480-761122/37**
**Matrix: Water**
**Analysis Batch: 761122**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | | | 1.00 | 0.981 | | mg/L | | 98 | 90 - 110 | | |

**Lab Sample ID: 480-233913-12 MS**
**Matrix: Water**
**Analysis Batch: 761122**

**Client Sample ID: EX-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | 2.0 | | 0.0800 | 2.06 | 4 | mg/L | | 90 | 90 - 110 | | |

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: 480-233913-16 MS**
**Matrix: Water**
**Analysis Batch: 761122**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | 5.3 | | 0.0800 | 5.43 | 4 | mg/L | | 134 | 90 - 110 | | |

**Lab Sample ID: 480-233913-16 MSD**
**Matrix: Water**
**Analysis Batch: 761122**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | 5.3 | | 0.0800 | 5.40 | 4 | mg/L | | 95 | 90 - 110 | 1 | 20 |

**Lab Sample ID: MB 480-761444/7**
**Matrix: Water**
**Analysis Batch: 761444**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia | ND | | 0.050 | 0.0090 | mg/L | | | 11/01/25 11:53 | 1 |

**Lab Sample ID: LCS 480-761444/8**
**Matrix: Water**
**Analysis Batch: 761444**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | | | 1.00 | 0.926 | | mg/L | | 93 | 90 - 110 | | |

## Method: 353.2 - Nitrogen, Nitrate-Nitrite

**Lab Sample ID: MB 480-760765/30**
**Matrix: Water**
**Analysis Batch: 760765**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | ND | | 0.050 | 0.020 | mg/L | | | 10/25/25 16:13 | 1 |

**Lab Sample ID: MB 480-760765/7**
**Matrix: Water**
**Analysis Batch: 760765**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | ND | | 0.050 | 0.020 | mg/L | | | 10/25/25 14:31 | 1 |

**Lab Sample ID: LCS 480-760765/31**
**Matrix: Water**
**Analysis Batch: 760765**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | | | 1.50 | 1.52 | | mg/L | | 101 | 90 - 110 | | |

## Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

**Lab Sample ID: LCS 480-760765/8**
**Matrix: Water**
**Analysis Batch: 760765**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | | | 1.50 | 1.45 | | mg/L | | 97 | 90 - 110 | | |

**Lab Sample ID: 480-233913-1 MS**
**Matrix: Water**
**Analysis Batch: 760765**

**Client Sample ID: MW-6A**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | ND | | 0.998 | 0.967 | | mg/L | | 97 | 90 - 110 | | |

**Lab Sample ID: 480-233913-10 MS**
**Matrix: Ground Water**
**Analysis Batch: 760765**

**Client Sample ID: MW-22**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | ND | F1 | 0.998 | 0.602 | F1 | mg/L | | 60 | 90 - 110 | | |

**Lab Sample ID: 480-233913-16 MS**
**Matrix: Water**
**Analysis Batch: 760765**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 0.025 | J F1 | 0.998 | 0.401 | F1 | mg/L | | 38 | 90 - 110 | | |

**Lab Sample ID: 480-233913-16 MSD**
**Matrix: Water**
**Analysis Batch: 760765**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 0.025 | J F1 | 0.998 | 0.410 | F1 | mg/L | | 39 | 90 - 110 | 2 | 20 |

## Method: D516-90, 02 - Sulfate

**Lab Sample ID: MB 480-761100/103**
**Matrix: Water**
**Analysis Batch: 761100**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 10/28/25 12:45 | 1 |

**Lab Sample ID: MB 480-761100/115**
**Matrix: Water**
**Analysis Batch: 761100**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:30 | 1 |

## Method: D516-90, 02 - Sulfate (Continued)

**Lab Sample ID: MB 480-761100/123**
**Matrix: Water**
**Analysis Batch: 761100**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:32 | 1 |

**Lab Sample ID: MB 480-761100/131**
**Matrix: Water**
**Analysis Batch: 761100**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:34 | 1 |

**Lab Sample ID: MB 480-761100/139**
**Matrix: Water**
**Analysis Batch: 761100**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:37 | 1 |

**Lab Sample ID: MB 480-761100/148**
**Matrix: Water**
**Analysis Batch: 761100**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 10/28/25 13:40 | 1 |

**Lab Sample ID: MB 480-761100/218**
**Matrix: Water**
**Analysis Batch: 761100**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 10/28/25 14:52 | 1 |

**Lab Sample ID: MB 480-761100/224**
**Matrix: Water**
**Analysis Batch: 761100**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 10/28/25 15:16 | 1 |

**Lab Sample ID: LCS 480-761100/114**
**Matrix: Water**
**Analysis Batch: 761100**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 30.0 | 29.36 | | mg/L | | 98 | 90 - 110 |

**Lab Sample ID: LCS 480-761100/122**
**Matrix: Water**
**Analysis Batch: 761100**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 30.0 | 30.18 | | mg/L | | 101 | 90 - 110 |

## Method: D516-90, 02 - Sulfate

**Lab Sample ID: LCS 480-761100/130**
**Matrix: Water**
**Analysis Batch: 761100**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 30.0 | 29.94 | | mg/L | | 100 | 90 - 110 |

**Lab Sample ID: LCS 480-761100/138**
**Matrix: Water**
**Analysis Batch: 761100**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 30.0 | 30.00 | | mg/L | | 100 | 90 - 110 |

**Lab Sample ID: LCS 480-761100/147**
**Matrix: Water**
**Analysis Batch: 761100**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 30.0 | 30.16 | | mg/L | | 101 | 90 - 110 |

**Lab Sample ID: LCS 480-761100/223**
**Matrix: Water**
**Analysis Batch: 761100**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Sulfate | 30.0 | 29.19 | | mg/L | | 97 | 90 - 110 |

**Lab Sample ID: 480-233913-16 MS**
**Matrix: Water**
**Analysis Batch: 761100**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | F1 F2 | 20.0 | 3.23 | J F1 | mg/L | | 16 | 60 - 128 |

**Lab Sample ID: 480-233913-16 MSD**
**Matrix: Water**
**Analysis Batch: 761100**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | ND | F1 F2 | 20.0 | 24.82 | F2 | mg/L | | 124 | 60 - 128 | 154 | 20 |

## Method: SM 5310C - TOC

**Lab Sample ID: MB 480-761078/28**
**Matrix: Water**
**Analysis Batch: 761078**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 1.0 | 0.43 | mg/L | | | 10/28/25 23:37 | 1 |

## Method: SM 5310C - TOC (Continued)

**Lab Sample ID: MB 480-761078/5**
**Matrix: Water**
**Analysis Batch: 761078**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 1.0 | 0.43 | mg/L | | | 10/28/25 12:36 | 1 |

**Lab Sample ID: LCS 480-761078/29**
**Matrix: Water**
**Analysis Batch: 761078**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 30.0 | 29.77 | | mg/L | | 99 | 90 - 110 |

**Lab Sample ID: LCS 480-761078/6**
**Matrix: Water**
**Analysis Batch: 761078**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 30.0 | 29.12 | | mg/L | | 97 | 90 - 110 |

**Lab Sample ID: 480-233913-2 MS**
**Matrix: Water**
**Analysis Batch: 761078**

**Client Sample ID: MW-6B**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 23.3 | 23.94 | | mg/L | | 103 | 54 - 131 |

**Lab Sample ID: 480-233913-6 MS**
**Matrix: Ground Water**
**Analysis Batch: 761078**

**Client Sample ID: MW-20A**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 23.3 | 24.25 | | mg/L | | 104 | 54 - 131 |

**Lab Sample ID: 480-233913-16 MS**
**Matrix: Water**
**Analysis Batch: 761078**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 4.2 | | 23.3 | 28.69 | | mg/L | | 105 | 54 - 131 |

**Lab Sample ID: 480-233913-16 MSD**
**Matrix: Water**
**Analysis Batch: 761078**

**Client Sample ID: MW-1C**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 4.2 | | 23.3 | 28.09 | | mg/L | | 103 | 54 - 131 | 2 | 20 |

**Lab Sample ID: 480-233913-3 DU**
**Matrix: Ground Water**
**Analysis Batch: 761078**

**Client Sample ID: MW-7M**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | ND | | mg/L | | NC | 20 |

## Method: SM 5310C - TOC

**Lab Sample ID: 480-233913-7 DU**
**Matrix: Ground Water**
**Analysis Batch: 761078**

**Client Sample ID: MW-20B**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 1.1 | | | 1.11 | | mg/L | | | | 1 | 20 |

**Lab Sample ID: MB 480-761303/28**
**Matrix: Water**
**Analysis Batch: 761303**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | | 1.0 | 0.43 | mg/L | | | 10/30/25 23:21 | 1 |

**Lab Sample ID: LCS 480-761303/29**
**Matrix: Water**
**Analysis Batch: 761303**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | | | 30.0 | 27.12 | | mg/L | | 90 | 90 - 110 | | |

## GC/MS VOA

### Analysis Batch: 760871

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-1 | MW-6A | Total/NA | Water | 8260C | |
| 480-233913-2 | MW-6B | Total/NA | Water | 8260C | |
| 480-233913-3 | MW-7M | Total/NA | Ground Water | 8260C | |
| 480-233913-4 | MW-18B | Total/NA | Ground Water | 8260C | |
| 480-233913-5 | MW-18C | Total/NA | Ground Water | 8260C | |
| 480-233913-6 | MW-20A | Total/NA | Ground Water | 8260C | |
| 480-233913-7 | MW-20B | Total/NA | Ground Water | 8260C | |
| 480-233913-8 | MW-19 | Total/NA | Ground Water | 8260C | |
| 480-233913-9 | MW-21 | Total/NA | Ground Water | 8260C | |
| 480-233913-10 | MW-22 | Total/NA | Ground Water | 8260C | |
| 480-233913-11 | FDUP-02-GW | Total/NA | Ground Water | 8260C | |
| 480-233913-13 | FDUP-01-GW | Total/NA | Water | 8260C | |
| 480-233913-14 | MW-10 | Total/NA | Water | 8260C | |
| 480-233913-15 | MW-1B | Total/NA | Water | 8260C | |
| 480-233913-16 | MW-1C | Total/NA | Water | 8260C | |
| 480-233913-17 | TRIP BLANK 1 | Total/NA | Water | 8260C | |
| 480-233913-18 | TRIP BLANK 2 | Total/NA | Distilled Water | 8260C | |
| MB 480-760871/8 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-760871/6 | Lab Control Sample | Total/NA | Water | 8260C | |
| 480-233913-16 MS | MW-1C | Total/NA | Water | 8260C | |
| 480-233913-16 MSD | MW-1C | Total/NA | Water | 8260C | |

### Analysis Batch: 760950

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-12 | EX-1 | Total/NA | Water | 8260C | |
| MB 480-760950/9 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-760950/6 | Lab Control Sample | Total/NA | Water | 8260C | |
| LCSD 480-760950/7 | Lab Control Sample Dup | Total/NA | Water | 8260C | |

## GC VOA

### Analysis Batch: 721941

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-12 | EX-1 | Total/NA | Water | 8015D | |
| 480-233913-14 | MW-10 | Total/NA | Water | 8015D | |
| MB 410-721941/5 | Method Blank | Total/NA | Water | 8015D | |
| LCS 410-721941/6 | Lab Control Sample | Total/NA | Water | 8015D | |
| LCSD 410-721941/7 | Lab Control Sample Dup | Total/NA | Water | 8015D | |

### Analysis Batch: 722619

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-13 | FDUP-01-GW | Total/NA | Water | 8015D | |
| 480-233913-15 | MW-1B | Total/NA | Water | 8015D | |
| 480-233913-16 | MW-1C | Total/NA | Water | 8015D | |
| MB 410-722619/5 | Method Blank | Total/NA | Water | 8015D | |
| LCS 410-722619/6 | Lab Control Sample | Total/NA | Water | 8015D | |
| LCSD 410-722619/7 | Lab Control Sample Dup | Total/NA | Water | 8015D | |
| 480-233913-16 MS | MW-1C | Total/NA | Water | 8015D | |
| 480-233913-16 MSD | MW-1C | Total/NA | Water | 8015D | |

## GC Semi VOA

### Prep Batch: 721700

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-12 | EX-1 | Total/NA | Water | 3510C | |
| 480-233913-14 | MW-10 | Total/NA | Water | 3510C | |
| MB 410-721700/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 410-721700/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 410-721700/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |

### Prep Batch: 722325

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-15 | MW-1B | Total/NA | Water | 3510C | |
| 480-233913-16 | MW-1C | Total/NA | Water | 3510C | |
| MB 410-722325/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 410-722325/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| 480-233913-16 MS | MW-1C | Total/NA | Water | 3510C | |
| 480-233913-16 MSD | MW-1C | Total/NA | Water | 3510C | |

### Prep Batch: 722355

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-13 | FDUP-01-GW | Total/NA | Water | 3510C | |
| MB 410-722355/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 410-722355/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 410-722355/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |

### Analysis Batch: 722412

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-12 | EX-1 | Total/NA | Water | 8015D | 721700 |
| 480-233913-14 | MW-10 | Total/NA | Water | 8015D | 721700 |
| MB 410-721700/1-A | Method Blank | Total/NA | Water | 8015D | 721700 |
| LCS 410-721700/2-A | Lab Control Sample | Total/NA | Water | 8015D | 721700 |
| LCSD 410-721700/3-A | Lab Control Sample Dup | Total/NA | Water | 8015D | 721700 |

### Analysis Batch: 722889

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-13 | FDUP-01-GW | Total/NA | Water | 8015D | 722355 |
| 480-233913-15 | MW-1B | Total/NA | Water | 8015D | 722325 |
| 480-233913-16 | MW-1C | Total/NA | Water | 8015D | 722325 |
| MB 410-722325/1-A | Method Blank | Total/NA | Water | 8015D | 722325 |
| MB 410-722355/1-A | Method Blank | Total/NA | Water | 8015D | 722355 |
| LCS 410-722325/2-A | Lab Control Sample | Total/NA | Water | 8015D | 722325 |
| LCS 410-722355/2-A | Lab Control Sample | Total/NA | Water | 8015D | 722355 |
| LCSD 410-722355/3-A | Lab Control Sample Dup | Total/NA | Water | 8015D | 722355 |
| 480-233913-16 MS | MW-1C | Total/NA | Water | 8015D | 722325 |
| 480-233913-16 MSD | MW-1C | Total/NA | Water | 8015D | 722325 |

## Metals

### Prep Batch: 760838

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-1 | MW-6A | Total/NA | Water | 3005A_ASP | |
| 480-233913-2 | MW-6B | Total/NA | Water | 3005A_ASP | |
| 480-233913-3 | MW-7M | Total/NA | Ground Water | 3005A_ASP | |
| 480-233913-4 | MW-18B | Total/NA | Ground Water | 3005A_ASP | |

## Metals (Continued)

### Prep Batch: 760838 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-5 | MW-18C | Total/NA | Ground Water | 3005A_ASP | |
| 480-233913-6 | MW-20A | Total/NA | Ground Water | 3005A_ASP | |
| 480-233913-7 | MW-20B | Total/NA | Ground Water | 3005A_ASP | |
| 480-233913-8 | MW-19 | Total/NA | Ground Water | 3005A_ASP | |
| 480-233913-9 | MW-21 | Total/NA | Ground Water | 3005A_ASP | |
| 480-233913-10 | MW-22 | Total/NA | Ground Water | 3005A_ASP | |
| 480-233913-11 | FDUP-02-GW | Total/NA | Ground Water | 3005A_ASP | |
| 480-233913-12 | EX-1 | Total/NA | Water | 3005A_ASP | |
| 480-233913-13 | FDUP-01-GW | Total/NA | Water | 3005A_ASP | |
| 480-233913-14 | MW-10 | Total/NA | Water | 3005A_ASP | |
| 480-233913-15 | MW-1B | Total/NA | Water | 3005A_ASP | |
| 480-233913-16 | MW-1C | Total/NA | Water | 3005A_ASP | |
| MB 480-760838/1-A | Method Blank | Total/NA | Water | 3005A_ASP | |
| LCS 480-760838/2-A | Lab Control Sample | Total/NA | Water | 3005A_ASP | |
| 480-233913-16 MS | MW-1C | Total/NA | Water | 3005A_ASP | |
| 480-233913-16 MSD | MW-1C | Total/NA | Water | 3005A_ASP | |

### Analysis Batch: 761296

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-2 | MW-6B | Total/NA | Water | EPA 6010D | 760838 |
| 480-233913-3 | MW-7M | Total/NA | Ground Water | EPA 6010D | 760838 |
| 480-233913-4 | MW-18B | Total/NA | Ground Water | EPA 6010D | 760838 |
| 480-233913-5 | MW-18C | Total/NA | Ground Water | EPA 6010D | 760838 |
| 480-233913-6 | MW-20A | Total/NA | Ground Water | EPA 6010D | 760838 |
| 480-233913-7 | MW-20B | Total/NA | Ground Water | EPA 6010D | 760838 |
| 480-233913-8 | MW-19 | Total/NA | Ground Water | EPA 6010D | 760838 |
| 480-233913-9 | MW-21 | Total/NA | Ground Water | EPA 6010D | 760838 |
| 480-233913-10 | MW-22 | Total/NA | Ground Water | EPA 6010D | 760838 |
| 480-233913-11 | FDUP-02-GW | Total/NA | Ground Water | EPA 6010D | 760838 |
| 480-233913-12 | EX-1 | Total/NA | Water | EPA 6010D | 760838 |
| 480-233913-13 | FDUP-01-GW | Total/NA | Water | EPA 6010D | 760838 |
| 480-233913-14 | MW-10 | Total/NA | Water | EPA 6010D | 760838 |
| 480-233913-15 | MW-1B | Total/NA | Water | EPA 6010D | 760838 |
| 480-233913-16 | MW-1C | Total/NA | Water | EPA 6010D | 760838 |
| 480-233913-16 MS | MW-1C | Total/NA | Water | EPA 6010D | 760838 |
| 480-233913-16 MSD | MW-1C | Total/NA | Water | EPA 6010D | 760838 |

### Analysis Batch: 761357

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 480-760838/1-A | Method Blank | Total/NA | Water | EPA 6010D | 760838 |
| LCS 480-760838/2-A | Lab Control Sample | Total/NA | Water | EPA 6010D | 760838 |

### Analysis Batch: 761387

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 480-760838/1-A | Method Blank | Total/NA | Water | EPA 6010D | 760838 |
| LCS 480-760838/2-A | Lab Control Sample | Total/NA | Water | EPA 6010D | 760838 |

### Analysis Batch: 761575

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-1 | MW-6A | Total/NA | Water | EPA 6010D | 760838 |

## General Chemistry

### Analysis Batch: 760765

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-1 | MW-6A | Total/NA | Water | 353.2 | |
| 480-233913-2 | MW-6B | Total/NA | Water | 353.2 | |
| 480-233913-3 | MW-7M | Total/NA | Ground Water | 353.2 | |
| 480-233913-4 | MW-18B | Total/NA | Ground Water | 353.2 | |
| 480-233913-5 | MW-18C | Total/NA | Ground Water | 353.2 | |
| 480-233913-6 | MW-20A | Total/NA | Ground Water | 353.2 | |
| 480-233913-7 | MW-20B | Total/NA | Ground Water | 353.2 | |
| 480-233913-8 | MW-19 | Total/NA | Ground Water | 353.2 | |
| 480-233913-9 | MW-21 | Total/NA | Ground Water | 353.2 | |
| 480-233913-10 | MW-22 | Total/NA | Ground Water | 353.2 | |
| 480-233913-11 | FDUP-02-GW | Total/NA | Ground Water | 353.2 | |
| 480-233913-12 | EX-1 | Total/NA | Water | 353.2 | |
| 480-233913-13 | FDUP-01-GW | Total/NA | Water | 353.2 | |
| 480-233913-14 | MW-10 | Total/NA | Water | 353.2 | |
| 480-233913-15 | MW-1B | Total/NA | Water | 353.2 | |
| 480-233913-16 | MW-1C | Total/NA | Water | 353.2 | |
| MB 480-760765/30 | Method Blank | Total/NA | Water | 353.2 | |
| MB 480-760765/7 | Method Blank | Total/NA | Water | 353.2 | |
| LCS 480-760765/31 | Lab Control Sample | Total/NA | Water | 353.2 | |
| LCS 480-760765/8 | Lab Control Sample | Total/NA | Water | 353.2 | |
| 480-233913-1 MS | MW-6A | Total/NA | Water | 353.2 | |
| 480-233913-10 MS | MW-22 | Total/NA | Ground Water | 353.2 | |
| 480-233913-16 MS | MW-1C | Total/NA | Water | 353.2 | |
| 480-233913-16 MSD | MW-1C | Total/NA | Water | 353.2 | |

### Analysis Batch: 760814

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-1 | MW-6A | Total/NA | Water | 350.1 | |
| 480-233913-2 | MW-6B | Total/NA | Water | 350.1 | |
| 480-233913-3 | MW-7M | Total/NA | Ground Water | 350.1 | |
| 480-233913-4 | MW-18B | Total/NA | Ground Water | 350.1 | |
| 480-233913-5 | MW-18C | Total/NA | Ground Water | 350.1 | |
| 480-233913-6 | MW-20A | Total/NA | Ground Water | 350.1 | |
| 480-233913-8 | MW-19 | Total/NA | Ground Water | 350.1 | |
| 480-233913-10 | MW-22 | Total/NA | Ground Water | 350.1 | |
| 480-233913-11 | FDUP-02-GW | Total/NA | Ground Water | 350.1 | |
| 480-233913-14 | MW-10 | Total/NA | Water | 350.1 | |
| MB 480-760814/28 | Method Blank | Total/NA | Water | 350.1 | |
| MB 480-760814/49 | Method Blank | Total/NA | Water | 350.1 | |
| LCS 480-760814/29 | Lab Control Sample | Total/NA | Water | 350.1 | |
| LCS 480-760814/50 | Lab Control Sample | Total/NA | Water | 350.1 | |
| 480-233913-1 MS | MW-6A | Total/NA | Water | 350.1 | |

### Analysis Batch: 761078

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-2 | MW-6B | Total/NA | Water | SM 5310C | |
| 480-233913-3 | MW-7M | Total/NA | Ground Water | SM 5310C | |
| 480-233913-4 | MW-18B | Total/NA | Ground Water | SM 5310C | |
| 480-233913-5 | MW-18C | Total/NA | Ground Water | SM 5310C | |
| 480-233913-6 | MW-20A | Total/NA | Ground Water | SM 5310C | |
| 480-233913-7 | MW-20B | Total/NA | Ground Water | SM 5310C | |

## General Chemistry (Continued)

### Analysis Batch: 761078 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-8 | MW-19 | Total/NA | Ground Water | SM 5310C | |
| 480-233913-9 | MW-21 | Total/NA | Ground Water | SM 5310C | |
| 480-233913-10 | MW-22 | Total/NA | Ground Water | SM 5310C | |
| 480-233913-11 | FDUP-02-GW | Total/NA | Ground Water | SM 5310C | |
| 480-233913-12 | EX-1 | Total/NA | Water | SM 5310C | |
| 480-233913-13 | FDUP-01-GW | Total/NA | Water | SM 5310C | |
| 480-233913-14 | MW-10 | Total/NA | Water | SM 5310C | |
| 480-233913-15 | MW-1B | Total/NA | Water | SM 5310C | |
| 480-233913-16 | MW-1C | Total/NA | Water | SM 5310C | |
| MB 480-761078/28 | Method Blank | Total/NA | Water | SM 5310C | |
| MB 480-761078/5 | Method Blank | Total/NA | Water | SM 5310C | |
| LCS 480-761078/29 | Lab Control Sample | Total/NA | Water | SM 5310C | |
| LCS 480-761078/6 | Lab Control Sample | Total/NA | Water | SM 5310C | |
| 480-233913-2 MS | MW-6B | Total/NA | Water | SM 5310C | |
| 480-233913-6 MS | MW-20A | Total/NA | Ground Water | SM 5310C | |
| 480-233913-16 MS | MW-1C | Total/NA | Water | SM 5310C | |
| 480-233913-16 MSD | MW-1C | Total/NA | Water | SM 5310C | |
| 480-233913-3 DU | MW-7M | Total/NA | Ground Water | SM 5310C | |
| 480-233913-7 DU | MW-20B | Total/NA | Ground Water | SM 5310C | |

### Analysis Batch: 761099

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-1 | MW-6A | Total/NA | Water | 310.2 | |
| 480-233913-2 | MW-6B | Total/NA | Water | 310.2 | |
| 480-233913-3 | MW-7M | Total/NA | Ground Water | 310.2 | |
| 480-233913-4 | MW-18B | Total/NA | Ground Water | 310.2 | |
| 480-233913-5 | MW-18C | Total/NA | Ground Water | 310.2 | |
| 480-233913-6 | MW-20A | Total/NA | Ground Water | 310.2 | |
| 480-233913-7 | MW-20B | Total/NA | Ground Water | 310.2 | |
| 480-233913-8 | MW-19 | Total/NA | Ground Water | 310.2 | |
| 480-233913-9 | MW-21 | Total/NA | Ground Water | 310.2 | |
| 480-233913-10 | MW-22 | Total/NA | Ground Water | 310.2 | |
| 480-233913-11 | FDUP-02-GW | Total/NA | Ground Water | 310.2 | |
| 480-233913-12 | EX-1 | Total/NA | Water | 310.2 | |
| 480-233913-13 | FDUP-01-GW | Total/NA | Water | 310.2 | |
| 480-233913-14 | MW-10 | Total/NA | Water | 310.2 | |
| 480-233913-15 | MW-1B | Total/NA | Water | 310.2 | |
| 480-233913-16 | MW-1C | Total/NA | Water | 310.2 | |
| MB 480-761099/106 | Method Blank | Total/NA | Water | 310.2 | |
| MB 480-761099/113 | Method Blank | Total/NA | Water | 310.2 | |
| MB 480-761099/123 | Method Blank | Total/NA | Water | 310.2 | |
| MB 480-761099/13 | Method Blank | Total/NA | Water | 310.2 | |
| MB 480-761099/39 | Method Blank | Total/NA | Water | 310.2 | |
| MB 480-761099/63 | Method Blank | Total/NA | Water | 310.2 | |
| MB 480-761099/88 | Method Blank | Total/NA | Water | 310.2 | |
| MB 480-761099/99 | Method Blank | Total/NA | Water | 310.2 | |
| LCS 480-761099/105 | Lab Control Sample | Total/NA | Water | 310.2 | |
| LCS 480-761099/112 | Lab Control Sample | Total/NA | Water | 310.2 | |
| LCS 480-761099/12 | Lab Control Sample | Total/NA | Water | 310.2 | |
| LCS 480-761099/122 | Lab Control Sample | Total/NA | Water | 310.2 | |
| LCS 480-761099/62 | Lab Control Sample | Total/NA | Water | 310.2 | |

## General Chemistry (Continued)

### Analysis Batch: 761099 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 480-761099/98 | Lab Control Sample | Total/NA | Water | 310.2 | |
| 480-233913-16 MS | MW-1C | Total/NA | Water | 310.2 | |
| 480-233913-16 MSD | MW-1C | Total/NA | Water | 310.2 | |

### Analysis Batch: 761100

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-1 | MW-6A | Total/NA | Water | D516-90, 02 | |
| 480-233913-2 | MW-6B | Total/NA | Water | D516-90, 02 | |
| 480-233913-3 | MW-7M | Total/NA | Ground Water | D516-90, 02 | |
| 480-233913-4 | MW-18B | Total/NA | Ground Water | D516-90, 02 | |
| 480-233913-5 | MW-18C | Total/NA | Ground Water | D516-90, 02 | |
| 480-233913-6 | MW-20A | Total/NA | Ground Water | D516-90, 02 | |
| 480-233913-7 | MW-20B | Total/NA | Ground Water | D516-90, 02 | |
| 480-233913-8 | MW-19 | Total/NA | Ground Water | D516-90, 02 | |
| 480-233913-9 | MW-21 | Total/NA | Ground Water | D516-90, 02 | |
| 480-233913-10 | MW-22 | Total/NA | Ground Water | D516-90, 02 | |
| 480-233913-11 | FDUP-02-GW | Total/NA | Ground Water | D516-90, 02 | |
| 480-233913-12 | EX-1 | Total/NA | Water | D516-90, 02 | |
| 480-233913-13 | FDUP-01-GW | Total/NA | Water | D516-90, 02 | |
| 480-233913-14 | MW-10 | Total/NA | Water | D516-90, 02 | |
| 480-233913-15 | MW-1B | Total/NA | Water | D516-90, 02 | |
| 480-233913-16 | MW-1C | Total/NA | Water | D516-90, 02 | |
| MB 480-761100/103 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-761100/115 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-761100/123 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-761100/131 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-761100/139 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-761100/148 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-761100/218 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-761100/224 | Method Blank | Total/NA | Water | D516-90, 02 | |
| LCS 480-761100/114 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| LCS 480-761100/122 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| LCS 480-761100/130 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| LCS 480-761100/138 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| LCS 480-761100/147 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| LCS 480-761100/223 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| 480-233913-16 MS | MW-1C | Total/NA | Water | D516-90, 02 | |
| 480-233913-16 MSD | MW-1C | Total/NA | Water | D516-90, 02 | |

### Analysis Batch: 761122

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-9 | MW-21 | Total/NA | Ground Water | 350.1 | |
| 480-233913-12 | EX-1 | Total/NA | Water | 350.1 | |
| 480-233913-13 | FDUP-01-GW | Total/NA | Water | 350.1 | |
| 480-233913-15 | MW-1B | Total/NA | Water | 350.1 | |
| 480-233913-16 | MW-1C | Total/NA | Water | 350.1 | |
| MB 480-761122/16 | Method Blank | Total/NA | Water | 350.1 | |
| MB 480-761122/36 | Method Blank | Total/NA | Water | 350.1 | |
| LCS 480-761122/17 | Lab Control Sample | Total/NA | Water | 350.1 | |
| LCS 480-761122/37 | Lab Control Sample | Total/NA | Water | 350.1 | |
| 480-233913-12 MS | EX-1 | Total/NA | Water | 350.1 | |

## General Chemistry (Continued)

### Analysis Batch: 761122 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-16 MS | MW-1C | Total/NA | Water | 350.1 | |
| 480-233913-16 MSD | MW-1C | Total/NA | Water | 350.1 | |

### Analysis Batch: 761303

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-1 | MW-6A | Total/NA | Water | SM 5310C | |
| MB 480-761303/28 | Method Blank | Total/NA | Water | SM 5310C | |
| LCS 480-761303/29 | Lab Control Sample | Total/NA | Water | SM 5310C | |

### Analysis Batch: 761444

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-233913-7 | MW-20B | Total/NA | Ground Water | 350.1 | |
| MB 480-761444/7 | Method Blank | Total/NA | Water | 350.1 | |
| LCS 480-761444/8 | Lab Control Sample | Total/NA | Water | 350.1 | |

# Lab Chronicle

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-6A
**Lab Sample ID: 480-233913-1**
**Date Collected: 10/22/25 14:15**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 01:28 |
| Total/NA | Prep | 3005A_ASP | | | 760838 | EMO | EET BUF | 10/30/25 09:22 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761575 | MP | EET BUF | 11/03/25 17:22 |
| Total/NA | Analysis | 310.2 | | 5 | 761099 | CG | EET BUF | 10/28/25 11:07 |
| Total/NA | Analysis | 350.1 | | 1 | 760814 | AM | EET BUF | 10/25/25 19:20 |
| Total/NA | Analysis | 353.2 | | 1 | 760765 | AM | EET BUF | 10/25/25 15:55 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 761100 | CG | EET BUF | 10/28/25 13:30 |
| Total/NA | Analysis | SM 5310C | | 1 | 761303 | AF | EET BUF | 10/31/25 03:32 |

## Client Sample ID: MW-6B
**Lab Sample ID: 480-233913-2**
**Date Collected: 10/22/25 14:40**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 01:52 |
| Total/NA | Prep | 3005A_ASP | | | 760838 | EMO | EET BUF | 10/30/25 09:22 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761296 | MP | EET BUF | 10/30/25 19:38 |
| Total/NA | Analysis | 310.2 | | 1 | 761099 | CG | EET BUF | 10/28/25 10:30 |
| Total/NA | Analysis | 350.1 | | 1 | 760814 | AM | EET BUF | 10/25/25 19:21 |
| Total/NA | Analysis | 353.2 | | 1 | 760765 | AM | EET BUF | 10/25/25 16:03 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 761100 | CG | EET BUF | 10/28/25 13:31 |
| Total/NA | Analysis | SM 5310C | | 1 | 761078 | AF | EET BUF | 10/28/25 13:33 |

## Client Sample ID: MW-7M
**Lab Sample ID: 480-233913-3**
**Date Collected: 10/22/25 11:50**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 02:16 |
| Total/NA | Prep | 3005A_ASP | | | 760838 | EMO | EET BUF | 10/30/25 09:22 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761296 | MP | EET BUF | 10/30/25 19:40 |
| Total/NA | Analysis | 310.2 | | 1 | 761099 | CG | EET BUF | 10/28/25 10:30 |
| Total/NA | Analysis | 350.1 | | 1 | 760814 | AM | EET BUF | 10/25/25 19:22 |
| Total/NA | Analysis | 353.2 | | 1 | 760765 | AM | EET BUF | 10/25/25 16:05 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 761100 | CG | EET BUF | 10/28/25 13:31 |
| Total/NA | Analysis | SM 5310C | | 1 | 761078 | AF | EET BUF | 10/28/25 14:29 |

## Client Sample ID: MW-18B
**Lab Sample ID: 480-233913-4**
**Date Collected: 10/23/25 11:35**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 02:40 |

## Client Sample ID: MW-18B
**Lab Sample ID: 480-233913-4**

**Date Collected: 10/23/25 11:35**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3005A_ASP | | | 760838 | EMO | EET BUF | 10/30/25 09:22 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761296 | MP | EET BUF | 10/30/25 19:48 |
| Total/NA | Analysis | 310.2 | | 1 | 761099 | CG | EET BUF | 10/28/25 10:30 |
| Total/NA | Analysis | 350.1 | | 1 | 760814 | AM | EET BUF | 10/25/25 19:23 |
| Total/NA | Analysis | 353.2 | | 1 | 760765 | AM | EET BUF | 10/25/25 16:07 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 761100 | CG | EET BUF | 10/28/25 13:32 |
| Total/NA | Analysis | SM 5310C | | 1 | 761078 | AF | EET BUF | 10/28/25 15:57 |

## Client Sample ID: MW-18C
**Lab Sample ID: 480-233913-5**

**Date Collected: 10/23/25 11:25**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 03:03 |
| Total/NA | Prep | 3005A_ASP | | | 760838 | EMO | EET BUF | 10/30/25 09:22 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761296 | MP | EET BUF | 10/30/25 19:50 |
| Total/NA | Analysis | 310.2 | | 1 | 761099 | CG | EET BUF | 10/28/25 11:29 |
| Total/NA | Analysis | 350.1 | | 1 | 760814 | AM | EET BUF | 10/25/25 19:23 |
| Total/NA | Analysis | 353.2 | | 1 | 760765 | AM | EET BUF | 10/25/25 16:23 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 761100 | CG | EET BUF | 10/28/25 13:33 |
| Total/NA | Analysis | SM 5310C | | 1 | 761078 | AF | EET BUF | 10/28/25 16:26 |

## Client Sample ID: MW-20A
**Lab Sample ID: 480-233913-6**

**Date Collected: 10/22/25 10:50**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 03:27 |
| Total/NA | Prep | 3005A_ASP | | | 760838 | EMO | EET BUF | 10/30/25 09:22 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761296 | MP | EET BUF | 10/30/25 19:52 |
| Total/NA | Analysis | 310.2 | | 1 | 761099 | CG | EET BUF | 10/28/25 11:29 |
| Total/NA | Analysis | 350.1 | | 1 | 760814 | AM | EET BUF | 10/25/25 19:25 |
| Total/NA | Analysis | 353.2 | | 1 | 760765 | AM | EET BUF | 10/25/25 16:25 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 761100 | CG | EET BUF | 10/28/25 13:33 |
| Total/NA | Analysis | SM 5310C | | 1 | 761078 | AF | EET BUF | 10/28/25 17:52 |

## Client Sample ID: MW-20B
**Lab Sample ID: 480-233913-7**

**Date Collected: 10/22/25 11:30**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 03:50 |

# Lab Chronicle

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-20B
**Lab Sample ID: 480-233913-7**
**Date Collected: 10/22/25 11:30**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3005A_ASP | | | 760838 | EMO | EET BUF | 10/30/25 09:22 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761296 | MP | EET BUF | 10/30/25 19:54 |
| Total/NA | Analysis | 310.2 | | 1 | 761099 | CG | EET BUF | 10/28/25 11:29 |
| Total/NA | Analysis | 350.1 | | 5 | 761444 | AM | EET BUF | 11/01/25 11:57 |
| Total/NA | Analysis | 353.2 | | 1 | 760765 | AM | EET BUF | 10/25/25 16:27 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 761100 | CG | EET BUF | 10/28/25 13:33 |
| Total/NA | Analysis | SM 5310C | | 1 | 761078 | AF | EET BUF | 10/28/25 18:49 |

## Client Sample ID: MW-19
**Lab Sample ID: 480-233913-8**
**Date Collected: 10/23/25 12:20**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 04:14 |
| Total/NA | Prep | 3005A_ASP | | | 760838 | EMO | EET BUF | 10/30/25 09:22 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761296 | MP | EET BUF | 10/30/25 19:55 |
| Total/NA | Analysis | 310.2 | | 1 | 761099 | CG | EET BUF | 10/28/25 11:30 |
| Total/NA | Analysis | 350.1 | | 1 | 760814 | AM | EET BUF | 10/25/25 19:32 |
| Total/NA | Analysis | 353.2 | | 1 | 760765 | AM | EET BUF | 10/25/25 16:29 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 761100 | CG | EET BUF | 10/28/25 13:35 |
| Total/NA | Analysis | SM 5310C | | 1 | 761078 | AF | EET BUF | 10/28/25 19:46 |

## Client Sample ID: MW-21
**Lab Sample ID: 480-233913-9**
**Date Collected: 10/22/25 12:55**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 04:38 |
| Total/NA | Prep | 3005A_ASP | | | 760838 | EMO | EET BUF | 10/30/25 09:22 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761296 | MP | EET BUF | 10/30/25 19:57 |
| Total/NA | Analysis | 310.2 | | 5 | 761099 | CG | EET BUF | 10/28/25 11:25 |
| Total/NA | Analysis | 350.1 | | 5 | 761122 | AM | EET BUF | 10/29/25 11:03 |
| Total/NA | Analysis | 353.2 | | 1 | 760765 | AM | EET BUF | 10/25/25 16:31 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 761100 | CG | EET BUF | 10/28/25 13:35 |
| Total/NA | Analysis | SM 5310C | | 1 | 761078 | AF | EET BUF | 10/28/25 20:16 |

## Client Sample ID: MW-22
**Lab Sample ID: 480-233913-10**
**Date Collected: 10/22/25 10:45**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 05:02 |

# Lab Chronicle

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-22
**Lab Sample ID: 480-233913-10**
**Date Collected: 10/22/25 10:45**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3005A_ASP | | | 760838 | EMO | EET BUF | 10/30/25 09:22 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761296 | MP | EET BUF | 10/30/25 19:59 |
| Total/NA | Analysis | 310.2 | | 1 | 761099 | CG | EET BUF | 10/28/25 11:20 |
| Total/NA | Analysis | 350.1 | | 1 | 760814 | AM | EET BUF | 10/25/25 19:33 |
| Total/NA | Analysis | 353.2 | | 1 | 760765 | AM | EET BUF | 10/25/25 16:37 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 761100 | CG | EET BUF | 10/28/25 13:47 |
| Total/NA | Analysis | SM 5310C | | 1 | 761078 | AF | EET BUF | 10/28/25 20:45 |

## Client Sample ID: FDUP-02-GW
**Lab Sample ID: 480-233913-11**
**Date Collected: 10/22/25 00:00**
**Matrix: Ground Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 05:26 |
| Total/NA | Prep | 3005A_ASP | | | 760838 | EMO | EET BUF | 10/30/25 09:22 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761296 | MP | EET BUF | 10/30/25 20:01 |
| Total/NA | Analysis | 310.2 | | 1 | 761099 | CG | EET BUF | 10/28/25 11:17 |
| Total/NA | Analysis | 350.1 | | 1 | 760814 | AM | EET BUF | 10/25/25 19:34 |
| Total/NA | Analysis | 353.2 | | 1 | 760765 | AM | EET BUF | 10/25/25 16:40 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 761100 | CG | EET BUF | 10/28/25 13:37 |
| Total/NA | Analysis | SM 5310C | | 1 | 761078 | AF | EET BUF | 10/28/25 21:13 |

## Client Sample ID: EX-1
**Lab Sample ID: 480-233913-12**
**Date Collected: 10/22/25 12:45**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 4 | 760950 | LCH | EET BUF | 10/28/25 18:28 |
| Total/NA | Analysis | 8015D | | 10 | 721941 | P5AM | ELLE | 10/30/25 21:39 |
| Total/NA | Prep | 3510C | | | 721700 | W2AM | ELLE | 10/29/25 16:49 |
| Total/NA | Analysis | 8015D | | 1 | 722412 | N3AZ | ELLE | 10/31/25 04:51 |
| Total/NA | Prep | 3005A_ASP | | | 760838 | EMO | EET BUF | 10/30/25 09:22 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761296 | MP | EET BUF | 10/30/25 20:03 |
| Total/NA | Analysis | 310.2 | | 5 | 761099 | CG | EET BUF | 10/28/25 11:27 |
| Total/NA | Analysis | 350.1 | | 1 | 761122 | AM | EET BUF | 10/29/25 11:06 |
| Total/NA | Analysis | 353.2 | | 1 | 760765 | AM | EET BUF | 10/25/25 16:42 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 761100 | CG | EET BUF | 10/28/25 13:38 |
| Total/NA | Analysis | SM 5310C | | 1 | 761078 | AF | EET BUF | 10/28/25 21:42 |

## Client Sample ID: FDUP-01-GW
**Lab Sample ID: 480-233913-13**
**Date Collected: 10/23/25 00:00**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 06:13 |
| Total/NA | Analysis | 8015D | | 1 | 722619 | P5AM | ELLE | 10/31/25 19:30 |
| Total/NA | Prep | 3510C | | | 722355 | W2AM | ELLE | 10/30/25 16:25 |
| Total/NA | Analysis | 8015D | | 1 | 722889 | N3AZ | ELLE | 11/01/25 04:38 |
| Total/NA | Prep | 3005A_ASP | | | 760838 | EMO | EET BUF | 10/30/25 09:22 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761296 | MP | EET BUF | 10/30/25 20:11 |
| Total/NA | Analysis | 310.2 | | 1 | 761099 | CG | EET BUF | 10/28/25 11:18 |
| Total/NA | Analysis | 350.1 | | 5 | 761122 | AM | EET BUF | 10/29/25 11:08 |
| Total/NA | Analysis | 353.2 | | 1 | 760765 | AM | EET BUF | 10/25/25 16:44 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 761100 | CG | EET BUF | 10/28/25 13:39 |
| Total/NA | Analysis | SM 5310C | | 1 | 761078 | AF | EET BUF | 10/28/25 22:11 |

## Client Sample ID: MW-10
**Lab Sample ID: 480-233913-14**
**Date Collected: 10/22/25 13:30**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 06:37 |
| Total/NA | Analysis | 8015D | | 1 | 721941 | P5AM | ELLE | 10/30/25 17:21 |
| Total/NA | Prep | 3510C | | | 721700 | W2AM | ELLE | 10/29/25 16:49 |
| Total/NA | Analysis | 8015D | | 1 | 722412 | N3AZ | ELLE | 10/31/25 05:14 |
| Total/NA | Prep | 3005A_ASP | | | 760838 | EMO | EET BUF | 10/30/25 09:22 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761296 | MP | EET BUF | 10/30/25 20:13 |
| Total/NA | Analysis | 310.2 | | 1 | 761099 | CG | EET BUF | 10/28/25 11:18 |
| Total/NA | Analysis | 350.1 | | 1 | 760814 | AM | EET BUF | 10/25/25 19:39 |
| Total/NA | Analysis | 353.2 | | 1 | 760765 | AM | EET BUF | 10/25/25 16:46 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 761100 | CG | EET BUF | 10/28/25 15:16 |
| Total/NA | Analysis | SM 5310C | | 1 | 761078 | AF | EET BUF | 10/29/25 02:01 |

## Client Sample ID: MW-1B
**Lab Sample ID: 480-233913-15**
**Date Collected: 10/23/25 09:45**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 07:00 |
| Total/NA | Analysis | 8015D | | 1 | 722619 | P5AM | ELLE | 10/31/25 19:55 |
| Total/NA | Prep | 3510C | | | 722325 | JDJ2 | ELLE | 10/30/25 15:53 |
| Total/NA | Analysis | 8015D | | 1 | 722889 | N3AZ | ELLE | 11/01/25 07:40 |
| Total/NA | Prep | 3005A_ASP | | | 760838 | EMO | EET BUF | 10/30/25 09:22 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761296 | MP | EET BUF | 10/30/25 20:15 |
| Total/NA | Analysis | 310.2 | | 1 | 761099 | CG | EET BUF | 10/28/25 11:19 |
| Total/NA | Analysis | 350.1 | | 5 | 761122 | AM | EET BUF | 10/29/25 11:08 |
| Total/NA | Analysis | 353.2 | | 1 | 760765 | AM | EET BUF | 10/25/25 16:48 |

# Lab Chronicle

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Client Sample ID: MW-1B
**Lab Sample ID: 480-233913-15**
**Date Collected: 10/23/25 09:45**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | D516-90, 02 | | 1 | 761100 | CG | EET BUF | 10/28/25 15:17 |
| Total/NA | Analysis | SM 5310C | | 1 | 761078 | AF | EET BUF | 10/29/25 02:31 |

## Client Sample ID: MW-1C
**Lab Sample ID: 480-233913-16**
**Date Collected: 10/23/25 10:05**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 07:25 |
| Total/NA | Analysis | 8015D | | 1 | 722619 | P5AM | ELLE | 10/31/25 12:38 |
| Total/NA | Prep | 3510C | | | 722325 | JDJ2 | ELLE | 10/30/25 15:53 |
| Total/NA | Analysis | 8015D | | 1 | 722889 | N3AZ | ELLE | 11/01/25 06:32 |
| Total/NA | Prep | 3005A_ASP | | | 760838 | EMO | EET BUF | 10/30/25 09:22 |
| Total/NA | Analysis | EPA 6010D | | 1 | 761296 | MP | EET BUF | 10/30/25 20:17 |
| Total/NA | Analysis | 310.2 | | 5 | 761099 | CG | EET BUF | 10/28/25 11:26 |
| Total/NA | Analysis | 350.1 | | 5 | 761122 | AM | EET BUF | 10/29/25 11:15 |
| Total/NA | Analysis | 353.2 | | 1 | 760765 | AM | EET BUF | 10/25/25 16:17 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 761100 | CG | EET BUF | 10/28/25 13:37 |
| Total/NA | Analysis | SM 5310C | | 1 | 761078 | AF | EET BUF | 10/29/25 00:34 |

## Client Sample ID: TRIP BLANK 1
**Lab Sample ID: 480-233913-17**
**Date Collected: 10/22/25 00:00**
**Matrix: Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 07:49 |

## Client Sample ID: TRIP BLANK 2
**Lab Sample ID: 480-233913-18**
**Date Collected: 10/23/25 00:00**
**Matrix: Distilled Water**
**Date Received: 10/24/25 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 760871 | AXK | EET BUF | 10/28/25 08:12 |

**Laboratory References:**

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

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

## Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| New York | NELAP | 10026 | 03-31-26 |

## Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| New York | NELAP | 10670 | 04-01-26 |

# Method Summary

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | EET BUF |
| 8015D | Gasoline Range Organics (GRO) (GC) | SW846 | ELLE |
| 8015D | Diesel Range Organics (DRO) (GC) | SW846 | ELLE |
| EPA 6010D | Metals (ICP) | SW846 | EET BUF |
| 310.2 | Alkalinity | EPA | EET BUF |
| 350.1 | Nitrogen, Ammonia | EPA | EET BUF |
| 353.2 | Nitrogen, Nitrate-Nitrite | EPA | EET BUF |
| D516-90, 02 | Sulfate | ASTM | EET BUF |
| SM 5310C | TOC | SM | EET BUF |
| 3005A_ASP | Preparation, Total Metals | SW846 | EET BUF |
| 3510C | Liquid-Liquid Extraction (Separatory Funnel) | SW846 | ELLE |
| 5030C | Purge and Trap | SW846 | EET BUF |
| 5030C | Purge and Trap | SW846 | ELLE |

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

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

**Laboratory References:**

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

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Sample Summary

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Sample Origin |
|---|---|---|---|---|---|
| 480-233913-1 | MW-6A | Water | 10/22/25 14:15 | 10/24/25 10:00 | New York |
| 480-233913-2 | MW-6B | Water | 10/22/25 14:40 | 10/24/25 10:00 | New York |
| 480-233913-3 | MW-7M | Ground Water | 10/22/25 11:50 | 10/24/25 10:00 | New York |
| 480-233913-4 | MW-18B | Ground Water | 10/23/25 11:35 | 10/24/25 10:00 | New York |
| 480-233913-5 | MW-18C | Ground Water | 10/23/25 11:25 | 10/24/25 10:00 | New York |
| 480-233913-6 | MW-20A | Ground Water | 10/22/25 10:50 | 10/24/25 10:00 | New York |
| 480-233913-7 | MW-20B | Ground Water | 10/22/25 11:30 | 10/24/25 10:00 | New York |
| 480-233913-8 | MW-19 | Ground Water | 10/23/25 12:20 | 10/24/25 10:00 | New York |
| 480-233913-9 | MW-21 | Ground Water | 10/22/25 12:55 | 10/24/25 10:00 | New York |
| 480-233913-10 | MW-22 | Ground Water | 10/22/25 10:45 | 10/24/25 10:00 | New York |
| 480-233913-11 | FDUP-02-GW | Ground Water | 10/22/25 00:00 | 10/24/25 10:00 | New York |
| 480-233913-12 | EX-1 | Water | 10/22/25 12:45 | 10/24/25 10:00 | New York |
| 480-233913-13 | FDUP-01-GW | Water | 10/23/25 00:00 | 10/24/25 10:00 | New York |
| 480-233913-14 | MW-10 | Water | 10/22/25 13:30 | 10/24/25 10:00 | New York |
| 480-233913-15 | MW-1B | Water | 10/23/25 09:45 | 10/24/25 10:00 | New York |
| 480-233913-16 | MW-1C | Water | 10/23/25 10:05 | 10/24/25 10:00 | New York |
| 480-233913-17 | TRIP BLANK 1 | Water | 10/22/25 00:00 | 10/24/25 10:00 | New York |
| 480-233913-18 | TRIP BLANK 2 | Distilled Water | 10/23/25 00:00 | 10/24/25 10:00 | New York |

# Quantitation Limit Exceptions Summary

Client: Geosyntec Consultants Inc
Job ID: 480-233913-1
Project/Site: Cortese Landfill - Semiannual Groundwater

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

| Method | Analyte | Matrix | Prep Type | Unit | Client RL | Lab PQL |
|---|---|---|---|---|---|---|
| 8260C | 2-Butanone (MEK) | Distilled Water | Total/NA | ug/L | 5.0 | 10 |
| 8260C | 2-Butanone (MEK) | Ground Water | Total/NA | ug/L | 5.0 | 10 |
| 8260C | 2-Butanone (MEK) | Water | Total/NA | ug/L | 5.0 | 10 |
| EPA 6010D | Arsenic | Ground Water | Total/NA | mg/L | 0.010 | 0.015 |
| EPA 6010D | Arsenic | Water | Total/NA | mg/L | 0.010 | 0.015 |
| 310.2 | Alkalinity, Total | Ground Water | Total/NA | mg/L | 5.0 | 10 |
| 310.2 | Alkalinity, Total | Water | Total/NA | mg/L | 5.0 | 10 |

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

# Chain of Custody Record

eurofins | Environment Testing

| Client Information | Sampler: Al Pleva | Lab PM: VanDette, Ryan T | Carrier Tracking No(s): | COC No: 480-208035-17461.1 |
|---|---|---|---|---|
| Client Contact: Mr. Al Pleva | Phone: 908 804 0488 | E-Mail: Ryan.VanDette@et.eurofinsus.com | State of Origin: | Page: Page 1 of 2 |
| Company: Terra Nova | PWSID: | | | Job #: |

| Address: 7 Probasco Drive | Due Date Requested: |
|---|---|
| City: Allentown | TAT Requested (days): |
| State, Zip: NJ, 08501 | Compliance Project: Δ Yes Δ No |
| Phone: 850-483-5104(Tel) | PO #: 125001103 |
| Email: terranovanj@aol.com | WO #: 7666 |
| Project Name: Cortese Landfill Site/NY06 Event Desc: Semi-Annual GW - Fall ( | Project #: 48002953 |
| Site: New York | SSOW#: |

**Analysis Requested**

**Preservation Codes:**
A - HCL
D - HNO3
N - None
S - H2SO4

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260C - Volatiles | 6010C - Total Metals ICP | D516 - Sulfate | 310.2 - Alkalinity, Total | 350.1, 353.2_Pres | 5310C - Organic Carbon, Total (TOC) | 8015D_DRO - DRO | 8015D_GRO - GRO | | | | | | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | A | D | N | N | S | S | N | A | | | | | | | |
| TRIP BLANK 1 | 10-22-25 | — | — | Water | N | N | X | | | | | | | | | | | | | 3 | |
| TRIP BLANK 2 | 10-23-25 | — | — | Water | N | N | X | | | | | | | | | | | | | 3 | |
| MW-6A | 10-22-25 | 1415 | G | Water | N | N | X | X | X | X | X | X | | | | | | | | 10 | |
| MW-6B | 10-22-25 | 1440 | G | Water | N | N | X | X | X | X | X | X | | | | | | | | 10 | |
| MW-7M | 10-22-25 | 1150 | G | Water | N | N | X | X | X | X | X | X | | | | | | | | 10 | |
| MW-18B | 10-23-25 | 1135 | G | Water | N | N | X | X | X | X | X | X | | | | | | | | 10 | |
| MW-18C | 10-23-25 | 1125 | G | Water | N | N | X | X | X | X | X | X | | | | | | | | 10 | |
| MW-20A | 10-22-25 | 1050 | G | Water | N | N | X | X | X | X | X | X | | | | | | | | 10 | |
| MW-20B | 10-22-25 | 1130 | G | Water | N | N | X | X | X | X | X | X | | | | | | | | 10 | check RAD in HCl VIALS wind gusts toppled vials |
| MW-19 | 10-23-25 | 1220 | G | Water | N | N | X | X | X | X | X | X | | | | | | | | 10 | |
| MW-21 | 10-22-25 | 1255 | G | Water | N | N | X | X | X | X | X | X | | | | | | | | 10 | |

480-233913 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

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

| Relinquished by: | Date/Time: 10/23/25 1800 | Company: Terra Nova | Received by: | Date/Time: 10/24/25 1000 | Company: EurLO |
|---|---|---|---|---|---|
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.3 3.4, 2.6 IR#9C |
|---|---|---|

Ver: 10/10/2024



11/11/2025

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

# Chain of Custody Record

eurofins | Environment Testing

| Client Information | Sampler: Al Pleva | Lab PM: VanDette, Ryan T | Carrier Tracking No(s): | COC No: 480-208035-17461.2 |
|---|---|---|---|---|
| Client Contact: Mr. Al Pleva | Phone: 908 804 0488 | E-Mail: Ryan.VanDette@et.eurofinsus.com | State of Origin: | Page: Page 2 of 2 |
| Company: Terra Nova | PWSID: | | | Job #: |

| Address: 7 Probasco Drive | Due Date Requested: | Analysis Requested | Preservation Codes: A - HCL; D - HNO3; N - None; S - H2SO4 |
|---|---|---|---|
| City: Allentown | TAT Requested (days): | | |
| State, Zip: NJ, 08501 | Compliance Project: Δ Yes Δ No | | |
| Phone: 850-483-5104(Tel) | PO #: 125001103 | | |
| Email: terranovanj@aol.com | WO #: 7666 | | |
| Project Name: Cortese Landfill Site/NY06 Event Desc: Semi-Annual GW - Fall ( | Project #: 48002953 | | Other: |
| Site: New York | SSOW#: | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260C - Volatiles | 6010C - Total Metals ICP | D516 - Sulfate | 310.2 - Alkalinity, Total | 350.1, 353.2_Pres | 5310C - Organic Carbon, Total (TOC) | 8015D_DRO - DRO | 8015D_GRO - GRO | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | A | D | N | N | S | S | N | A | | |
| MW-22 | 10/22/25 | 1045 | G | Water | N | N | X | X | X | X | X | X | — | — | 10 | |
| FDUP-02-GW | 10/22/25 | — | G | Water | N | N | X | X | X | X | X | X | — | — | 10 | |
| EX-1 | 10-22-25 | 1245 | G | Water | N | N | X | X | X | X | X | X | X | X | 15 | |
| FDUP-01-GW | 10/23/25 | — | G | Water | N | N | X | X | X | X | X | X | X | X | 15 | |
| MW-10 | 10-22-25 | 1330 | G | Water | N | N | X | X | X | X | X | X | X | X | 15 | |
| MW-1B | 10/23/25 | 0945 | G | Water | N | N | X | X | X | X | X | X | X | X | 15 | |
| MW-1C | 10/23/25 | 1005 | G | Water | N | Y | X | X | X | X | X | X | X | X | 15 | |
| MS (mw-1C) | 10/22/25 | 1005 | G | Water | N | Y | X | X | X | — | X | X | X | X | 14 | |
| MSD (mw-1C) | 10/22/25 | 1005 | G | Water | N | Y | X | X | X | — | X | X | X | X | 14 | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

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

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

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

Special Instructions/QC Requirements:

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

| Relinquished by: | Date/Time: 10/23/25 1800 | Company: Terra Nova | Received by: | Date/Time: 10/24/25 1000 | Company: ENO |
|---|---|---|---|---|---|
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

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

Ver: 10/10/2024

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

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: N/A | Lab PM: VanDette, Ryan T | Carrier Tracking No(s): N/A | COC No: 480-95599.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: N/A | E-Mail: Ryan.VanDette@et.eurofinsus.com | State of Origin: New York | Page: Page 1 of 1 |
| Company: Eurofins Lancaster Laboratories Environm | | Accreditations Required (See note): NELAP - New York | | Job #: 480-233913-1 |
| Address: 2425 New Holland Pike, , | Due Date Requested: 11/6/2025 | | | Preservation Codes: - |
| City: Lancaster | TAT Requested (days): N/A | | | |
| State, Zip: PA, 17601 | | | | |
| Phone: 717-656-2300(Tel) | PO #: N/A | | | |
| Email: N/A | WO #: N/A | | | |
| Project Name: Cortese Landfill - Semiannual Groundwater | Project #: 48002953 | | | |
| Site: Cortese Landfill | SSOW#: N/A | | | Other: N/A |

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8015D_DRO/3510C_LVI(MOD) Diesel Range | 8015D_GRO/5030CGasoline Range Organics | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | |
| EX-1 (480-233913-12) | 10/22/25 | 12:45 Eastern | G | Water | | | X | X | 5 | Check historical- Geosyntec |
| FDUP-01-GW (480-233913-13) | 10/23/25 | Eastern | G | Water | | | X | X | 5 | Check historical- Geosyntec |
| MW-10 (480-233913-14) | 10/22/25 | 13:30 Eastern | G | Water | | | X | X | 5 | Check historical- Geosyntec |
| MW-1B (480-233913-15) | 10/23/25 | 09:45 Eastern | G | Water | | | X | X | 5 | Check historical- Geosyntec |
| MW-1C (480-233913-16) | 10/23/25 | 10:05 Eastern | G | Water | | | X | X | 5 | Check historical- Geosyntec |
| MW-1C (480-233913-16MS) | 10/23/25 | 10:05 Eastern | G | Water | | | X | X | 5 | Check historical- Geosyntec |
| MW-1C (480-233913-16MSD) | 10/23/25 | 10:05 Eastern | G | Water | | | X | X | 5 | Check historical- Geosyntec |
| | | | | | | | | | | |
| | | | | | | | | | | |

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

| Possible Hazard Identification | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) |
|---|---|
| Unconfirmed | ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

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

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| VD | 10-27-25 1600 | | | | |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: 10/28/25 1035 | Company ECET |

| Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: R - 3.1 8 C; 3.7 |
|---|---|---|

Ver: 10/10/2024

# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 480-233913-1
SDG Number:

**Login Number: 233913**
**List Number: 1**
**Creator: Wallace, Cameron**

**List Source: Eurofins Buffalo**

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

# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 480-233913-1
SDG Number:

**Login Number: 233913**
**List Number: 2**
**Creator: Arroyo, Haley**

**List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
**List Creation: 10/28/25 03:10 PM**

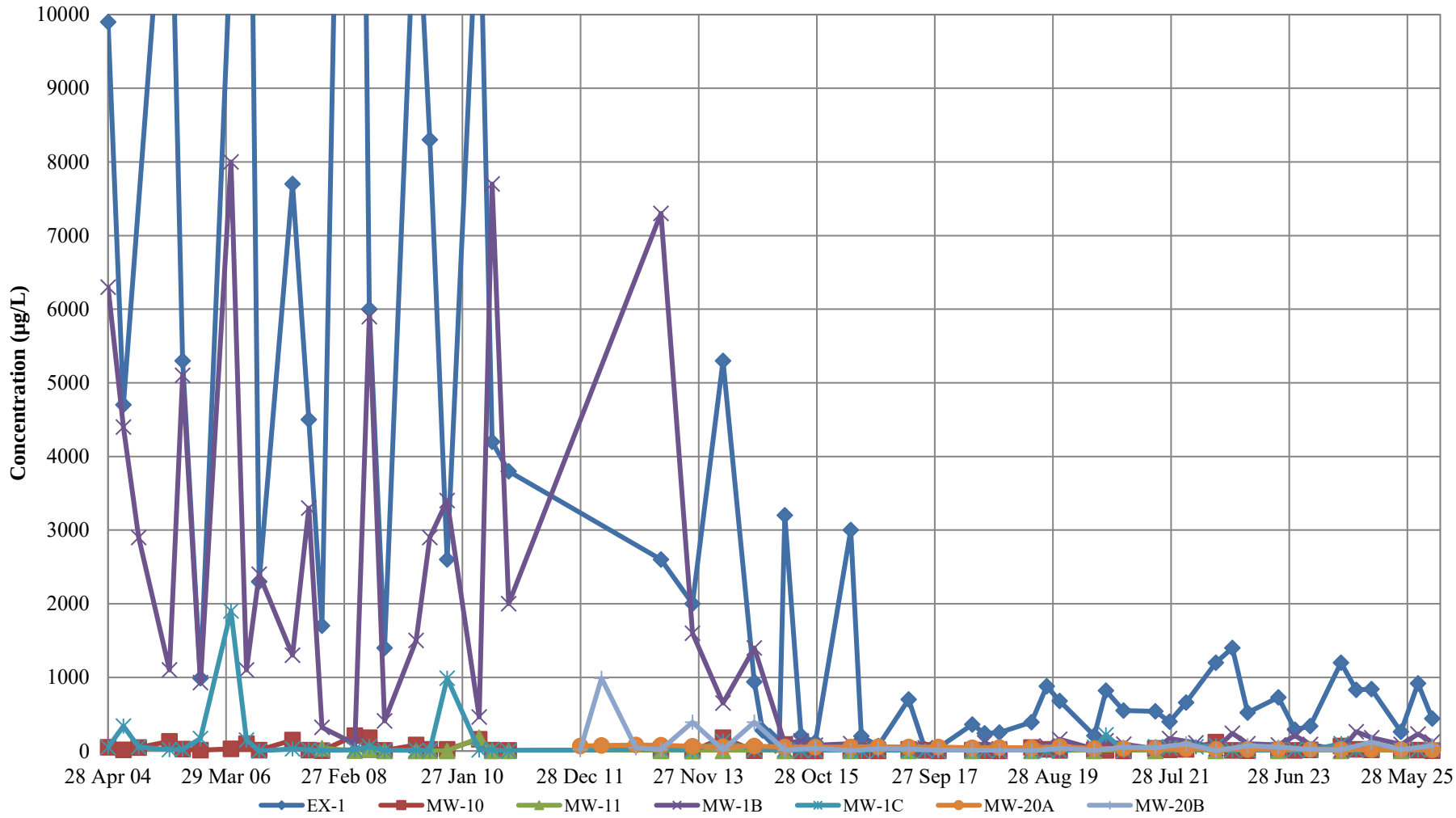
| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen). | True | |
| Cooler Temperature is recorded. | True | |
| WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen). | N/A | |
| WV:  Container Temperature is recorded. | N/A | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses. | True | |
| Is the Field Sampler's name present on COC? | N/A | Received project as a subcontract. |
| Sample custody seals are intact. | N/A | |
| VOA sample vials do not have headspace >6mm in diameter (none, if from WV)? | False | Headspace greater than 6mm in diameter in some but not all containers |

# APPENDIX A.6

# USEPA REGION 2 ELECTRONIC DATA DELIVERABLE
# (SEE COMPACT DISC)

# APPENDIX B

# TIME SERIES CONCENTRATION PLOTS



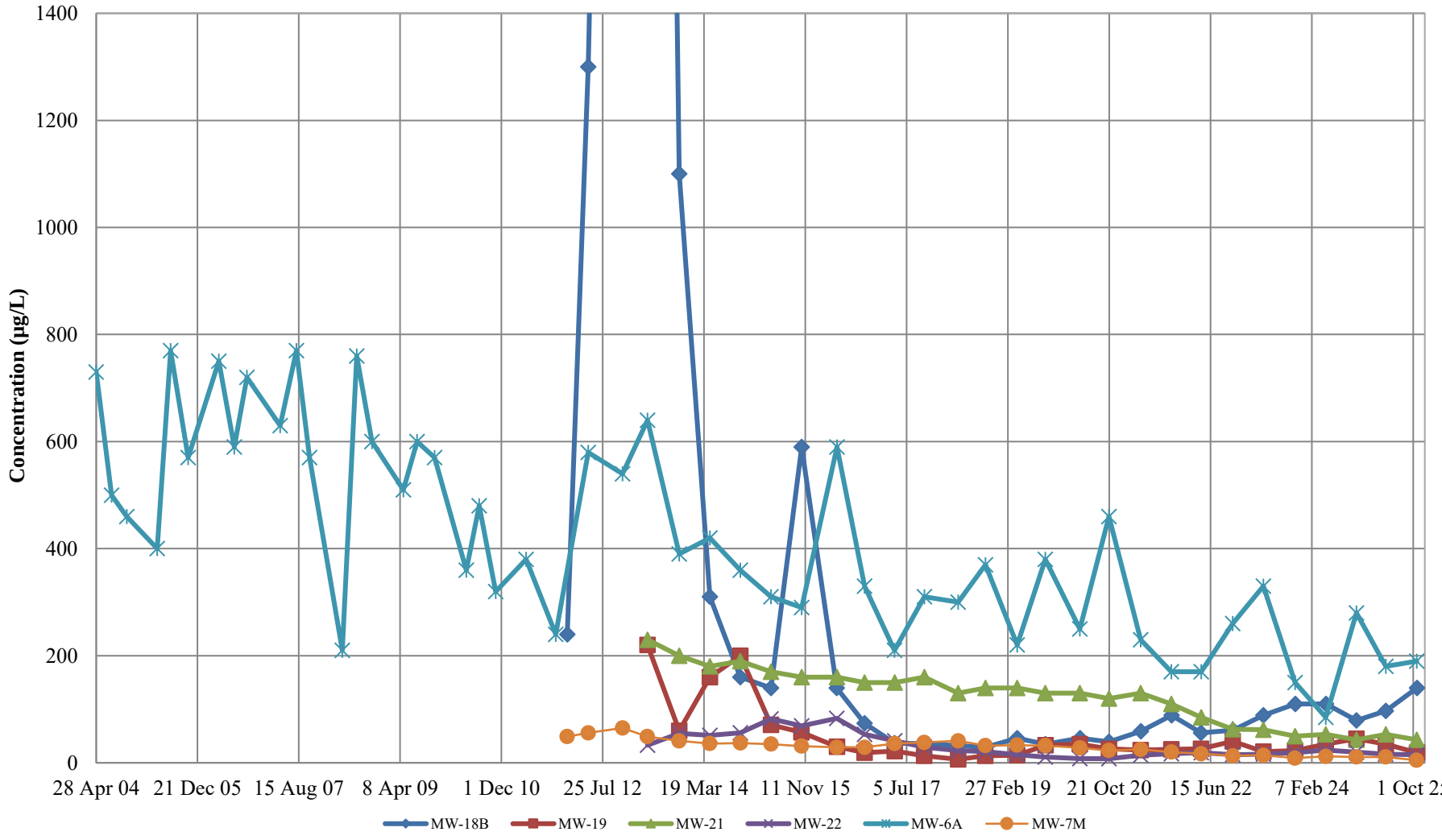

Total VOC Concentration Trends
Source Area Transect Wells
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 1

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EDat Databases\Cortese\Outputs\Charts\[Historical_TotalVOC_SourceArea.xls]Total_VOCS




Notes:
Total VOC concenation in April 2013 measured at 5,500 micrograms per liter.

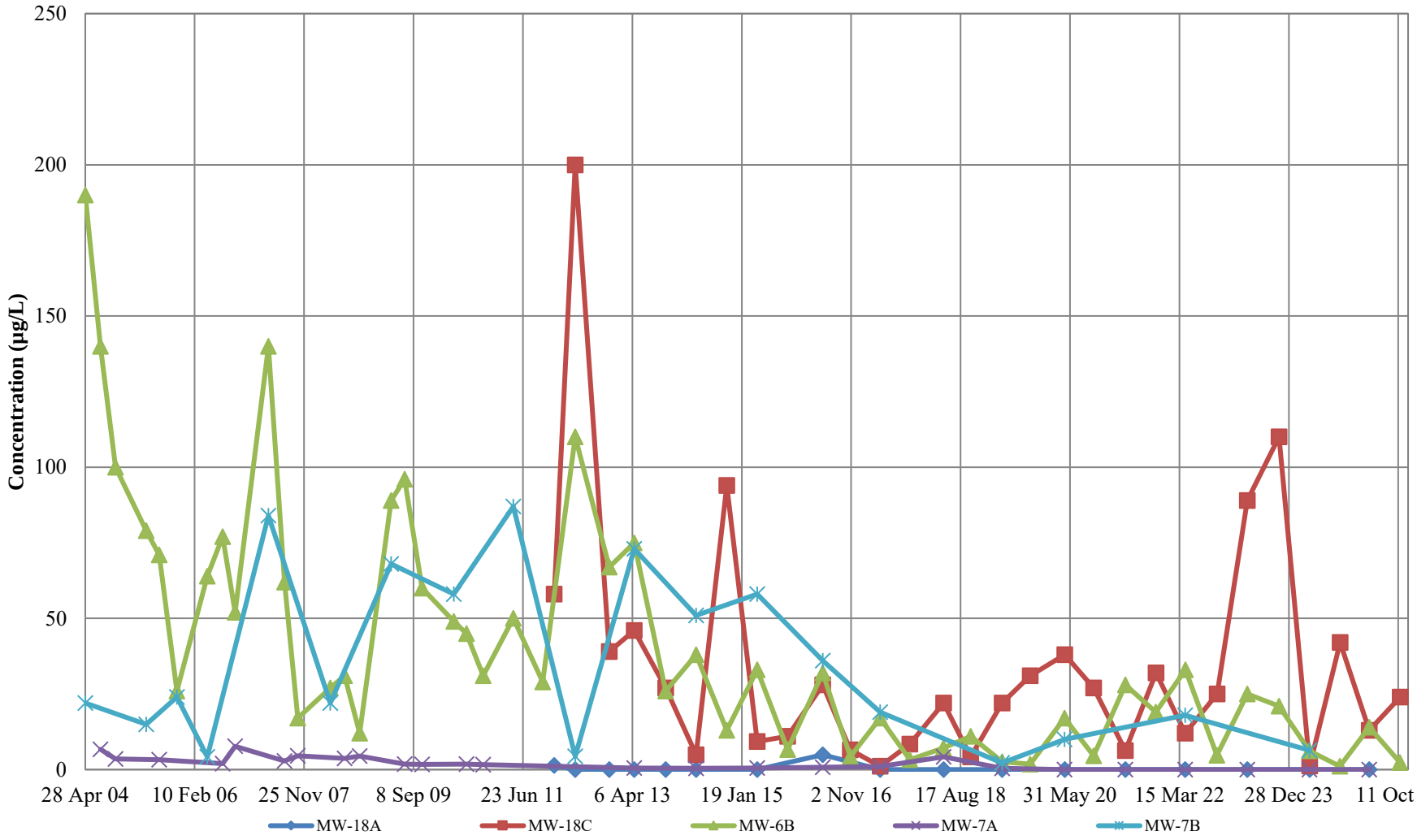
Total VOC Concentration Trends
Downgradient Intermediate Depth Wells
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 2

Columbia, Maryland | April 2026

\\ columbia-01 \ data \ Databases \ _EsDat Databases \ Cortese \ Outputs \ Charts \ [Historical_Total VOC_DGD.xls]Total_VOCS



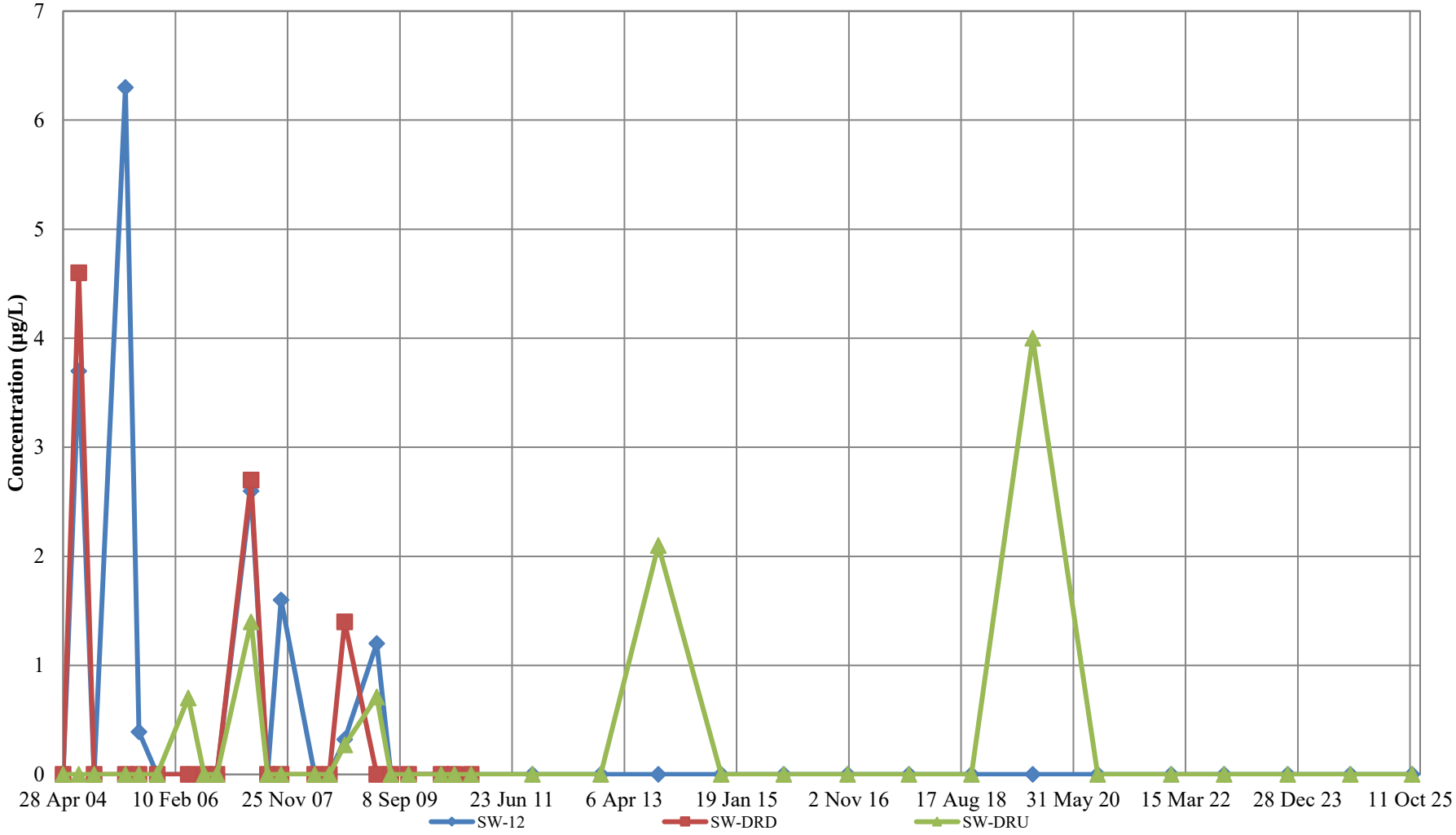

Total VOC Concentration Trends
Downgradient Shallow and Deep Wells
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 3

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[Historical_TotalVOC_DGSD.xls]Total_VOCS



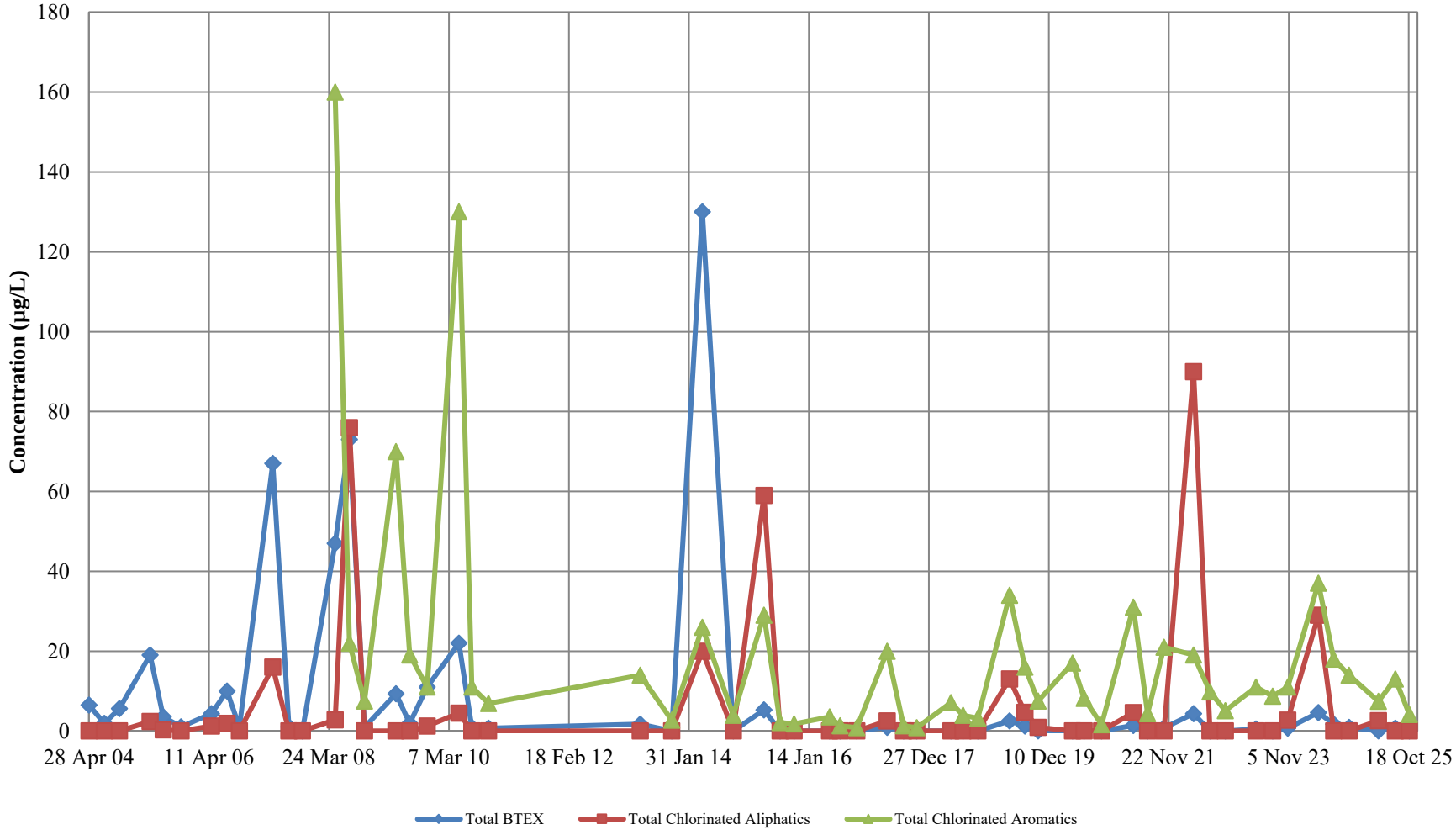

Total VOC Concentration Trends
Surface Water Points
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 4

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[Historical_TotalVOC_SW.xls]Total_VOCS



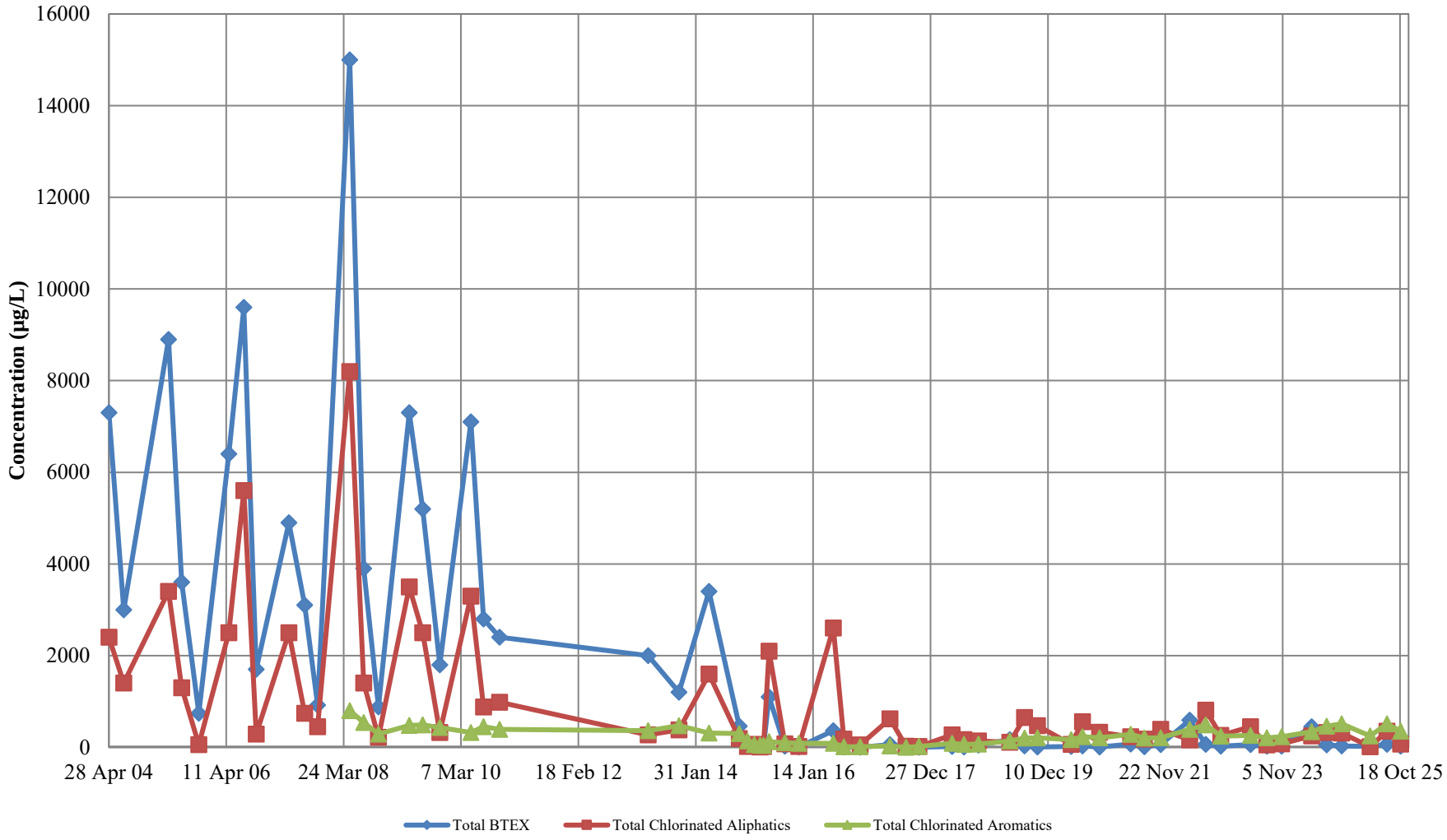

MW-10 VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 5

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[Historicaltrends_VOCs.xls]MW_10



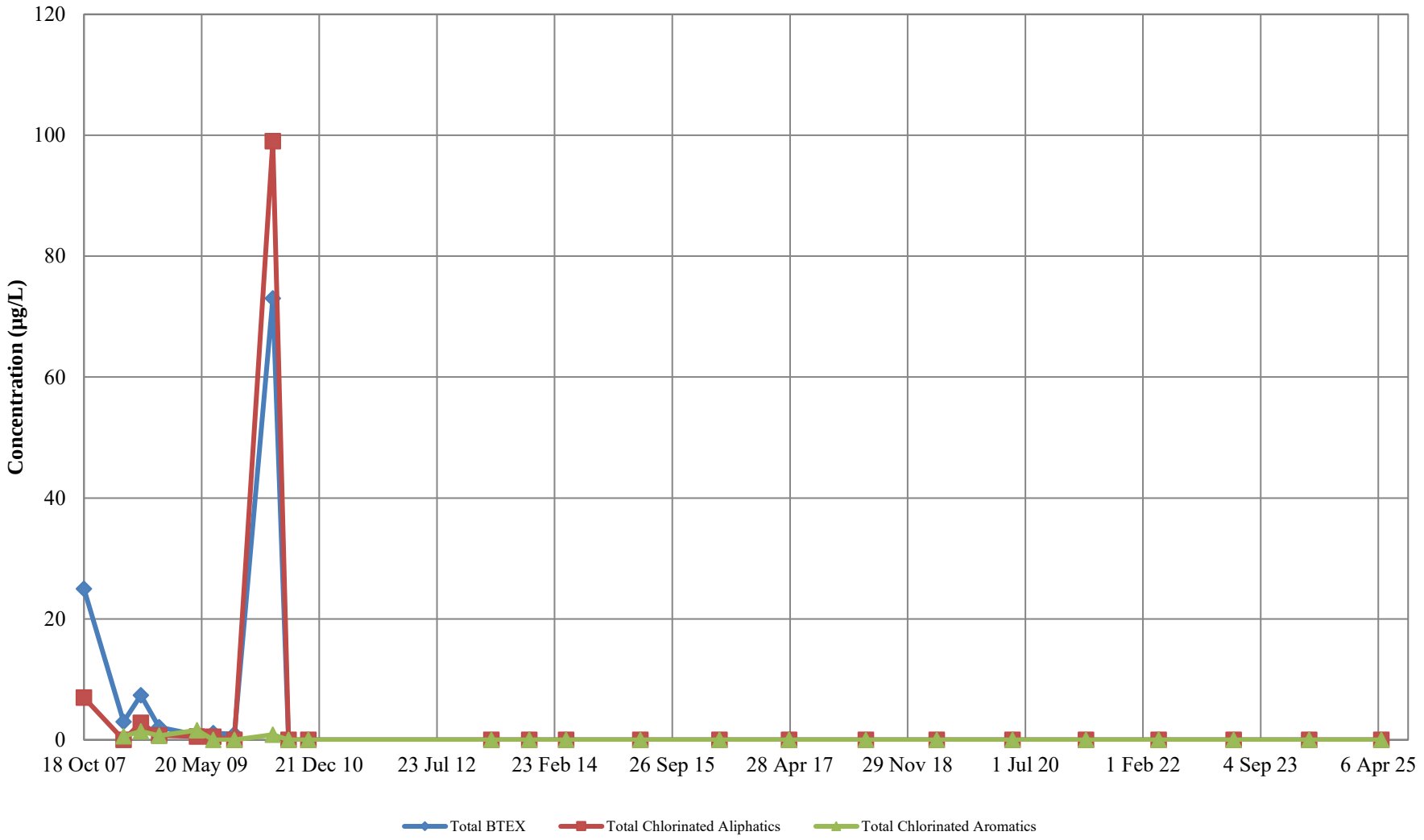

EX-1 VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

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Figure 6

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EDat Databases\Cortese\Outputs\Charts\[Historicaltrends_VOCs.xls]EX_1



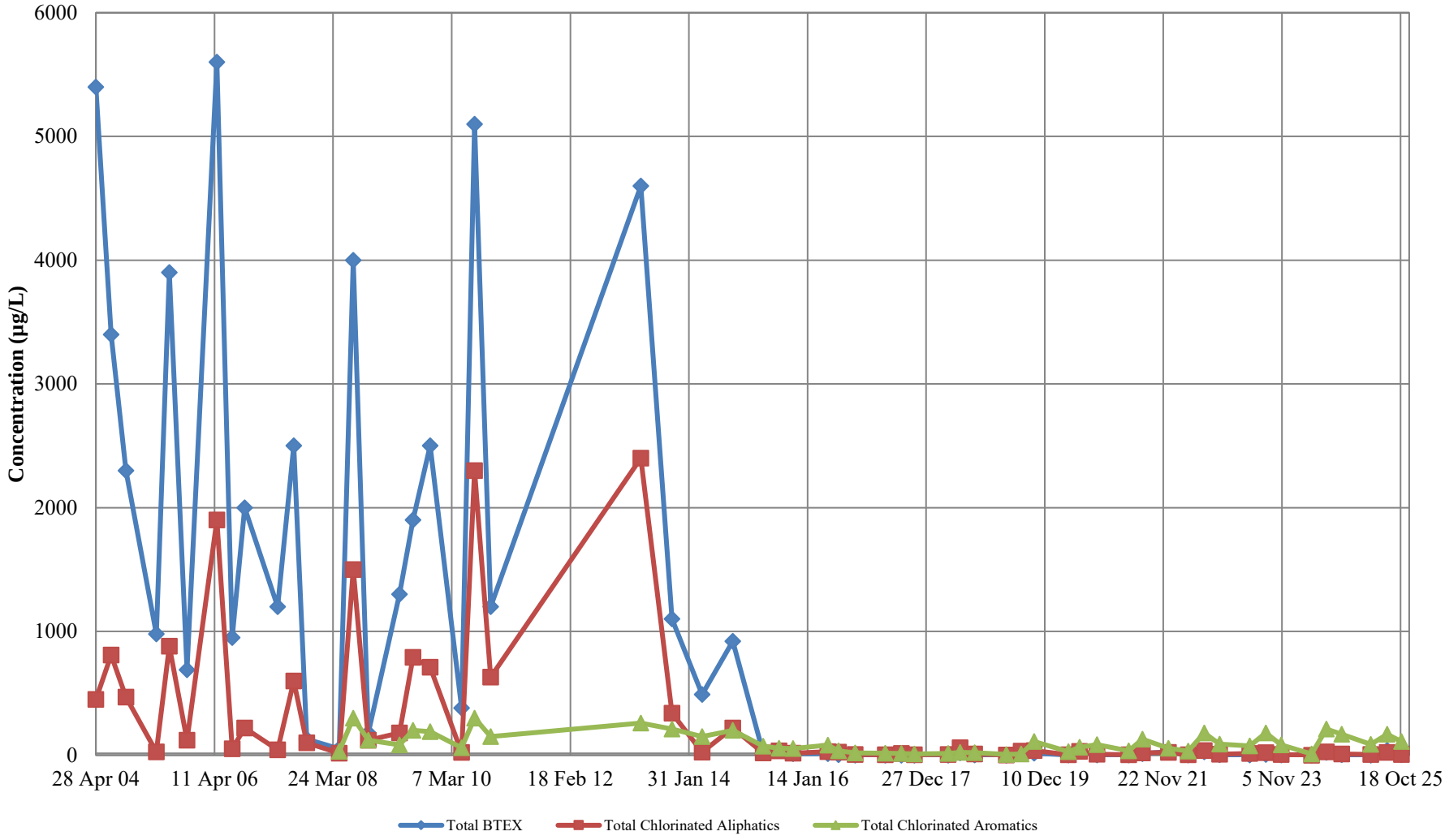

MW-11 VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

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Figure 7

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EDat Databases\Cortese\Outputs\Charts\[Historicaltrends_VOCs.xls]MW_11



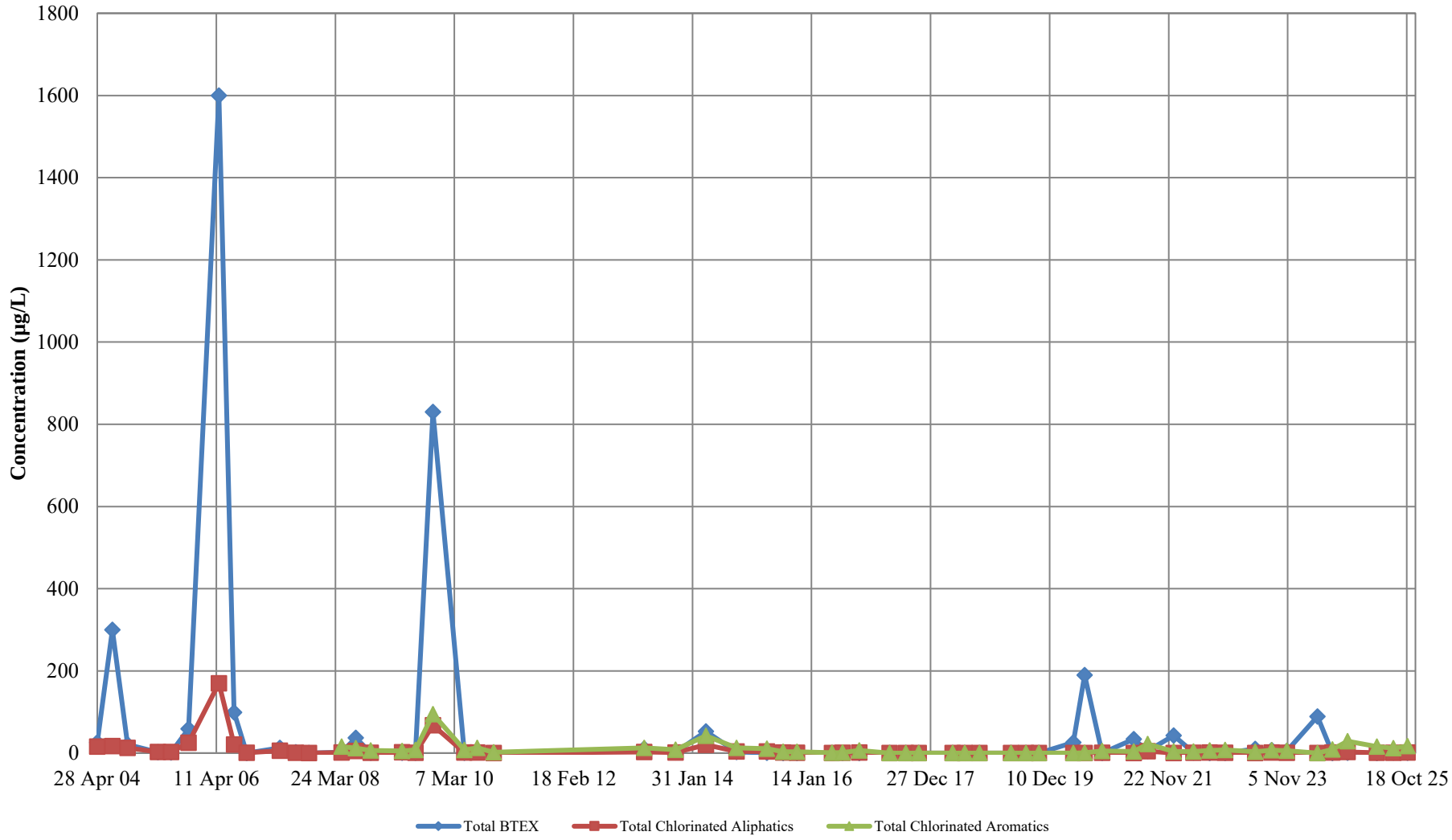

MW-1B VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

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Figure 8

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[Historicaltrends_VOCs.xls]MW_1B



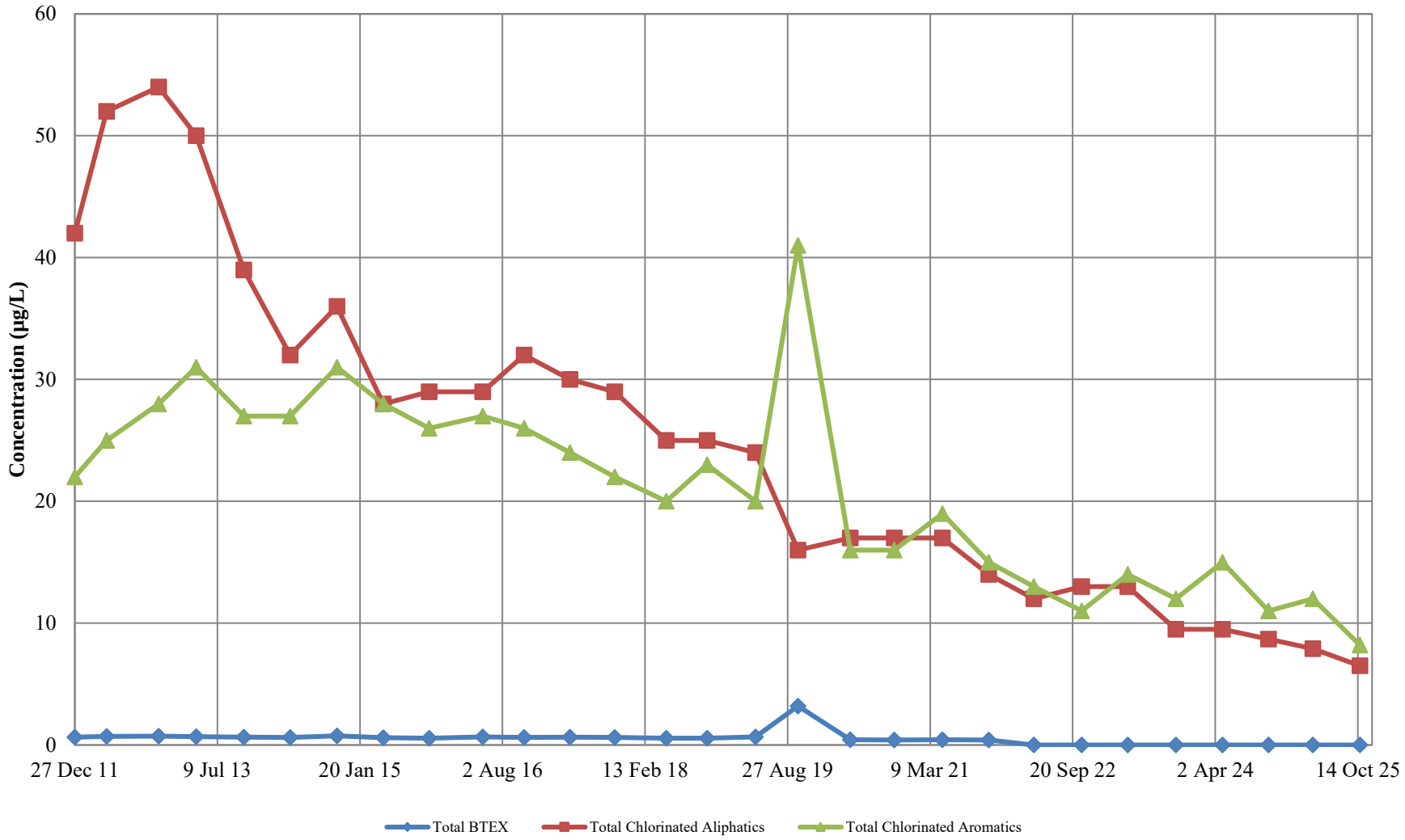

MW-1C VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

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Figure 9

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EDat Databases\Cortese\Outputs\Charts\[Historicaltrends_VOCs.xls]MW_1C



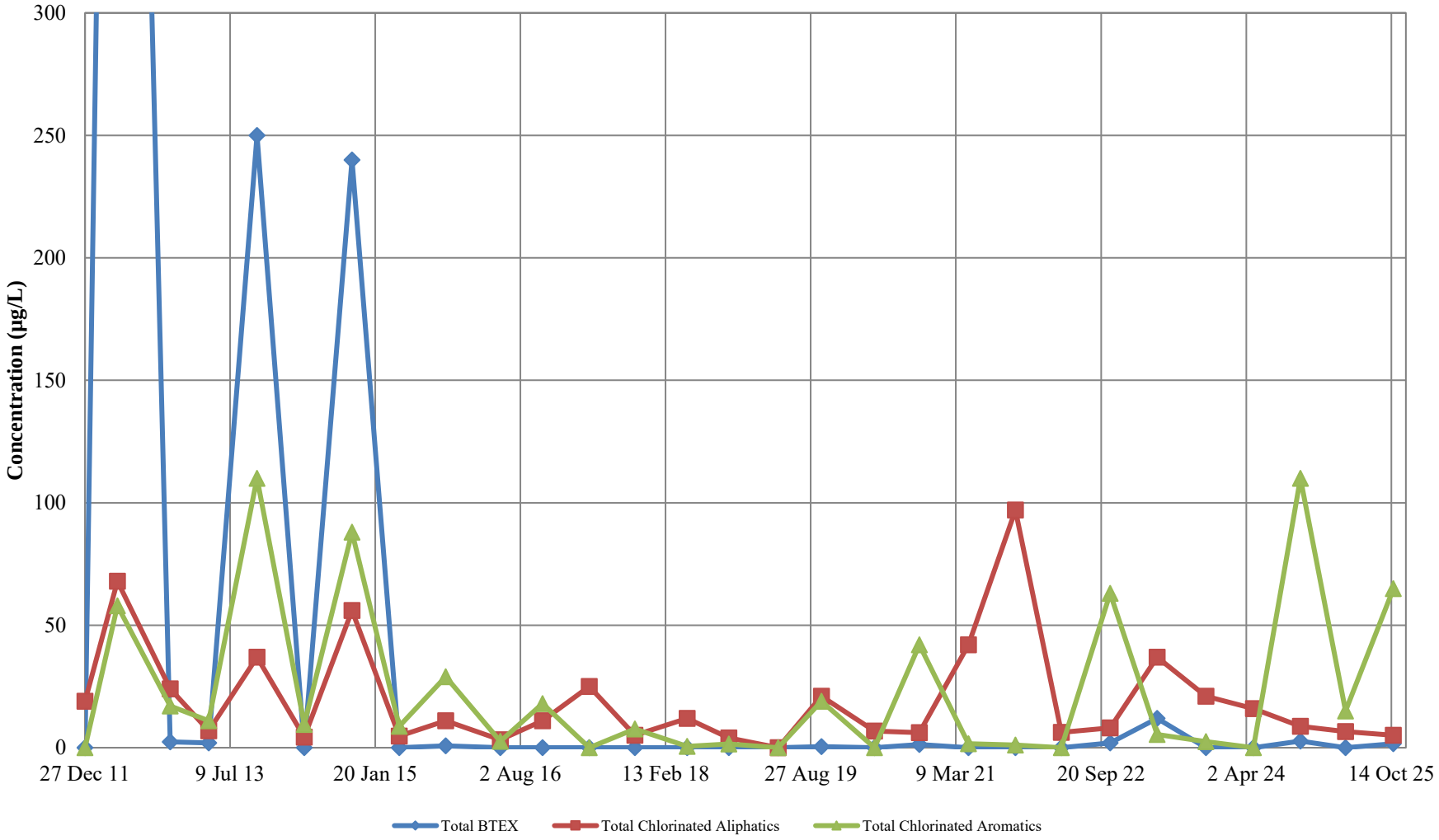

MW-20A VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

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Columbia, Maryland | April 2026

Figure 10

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[Historicaltrends_VOCs.xls]MW_20A




Notes:
Total BTEX Concenation in April 2012 measured at 860 micrograms per liter

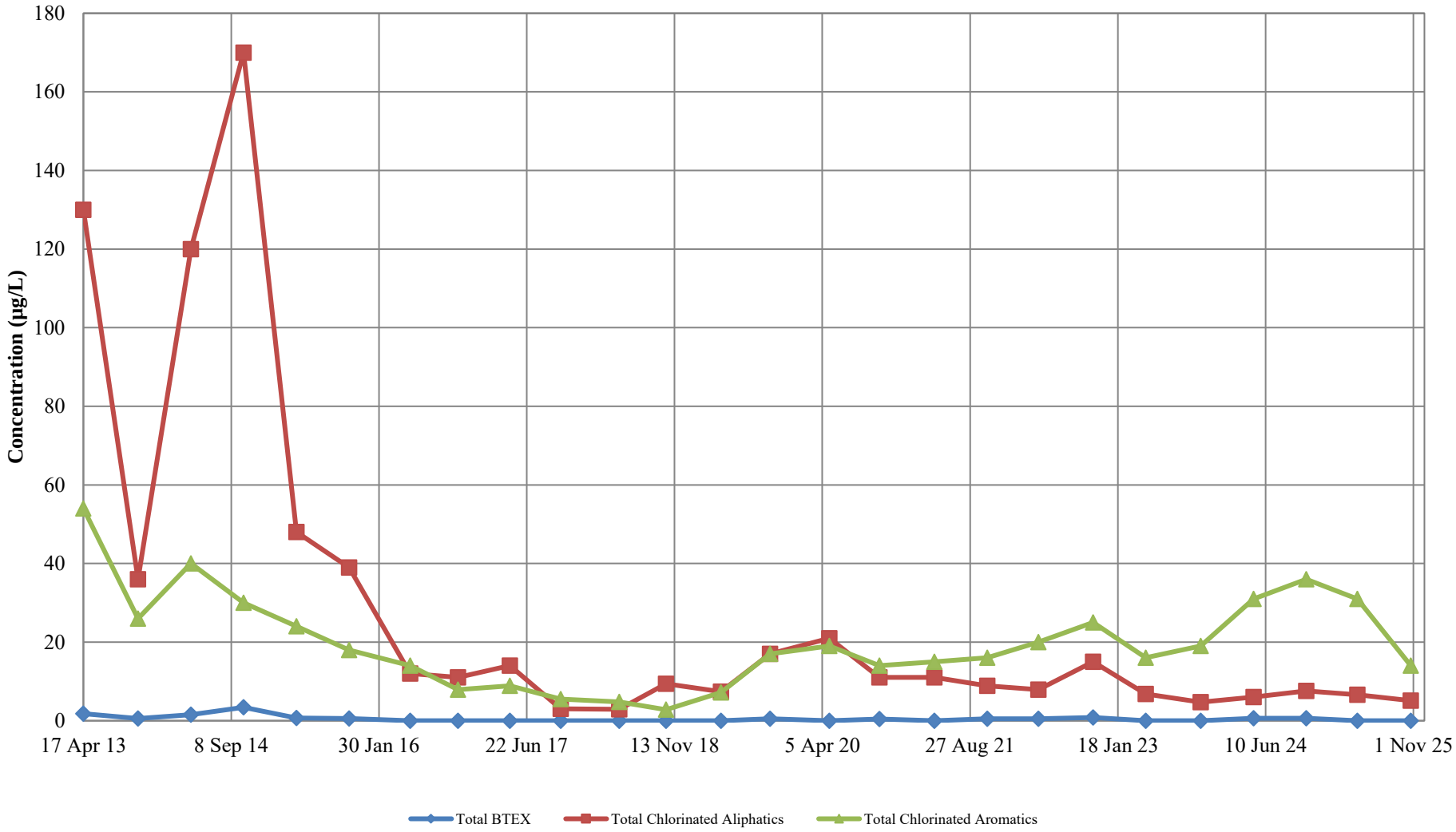
MW-20B VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

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Columbia, Maryland | April 2026

Figure 11

\\ columbia-01 \ data \ Databases \ _EsDat Databases \ Cortese \ Outputs \ Charts \ [Historical Trends_VOCs.xls]MW_20B



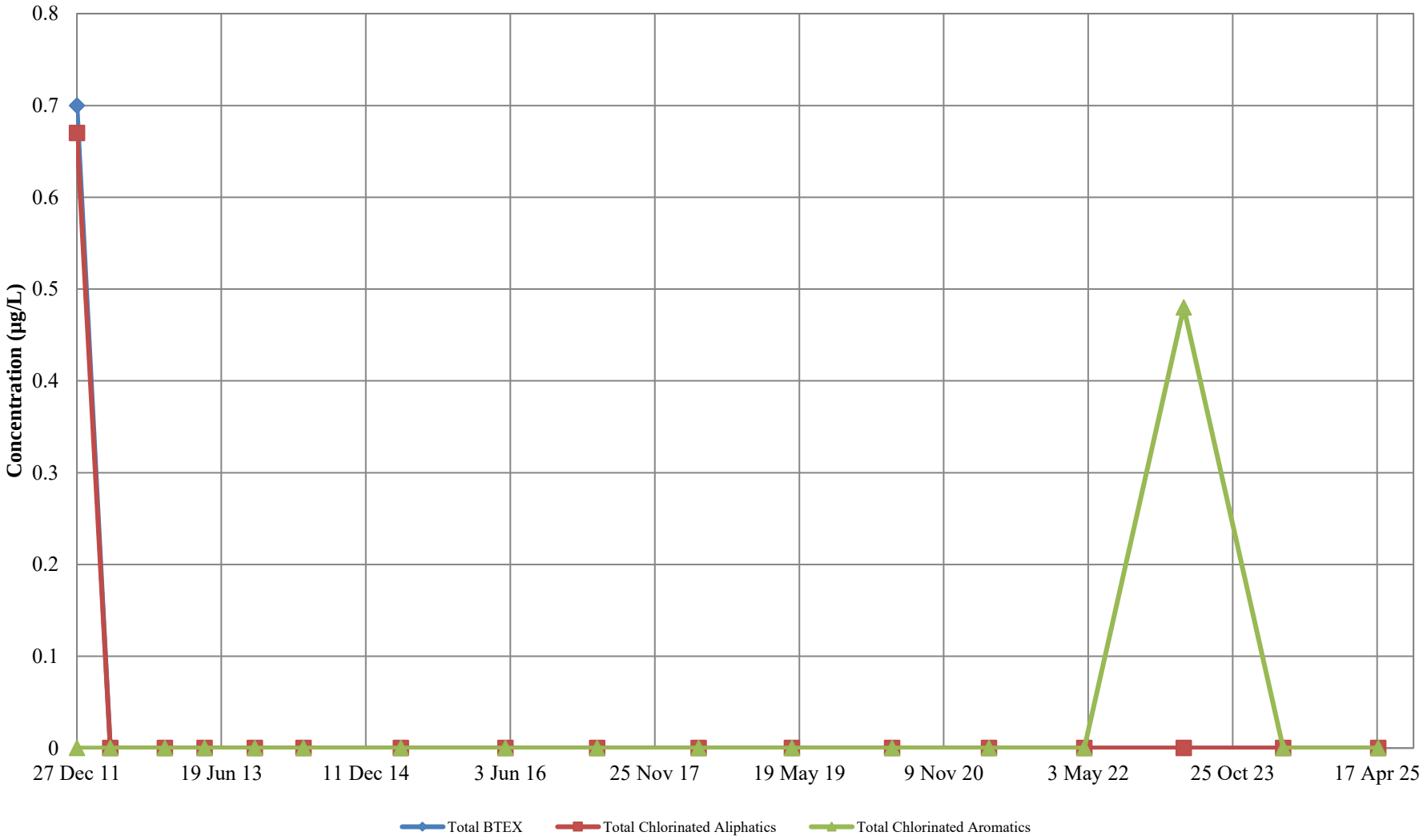

MW-19 VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

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Figure 12

Columbia, Maryland | April 2026

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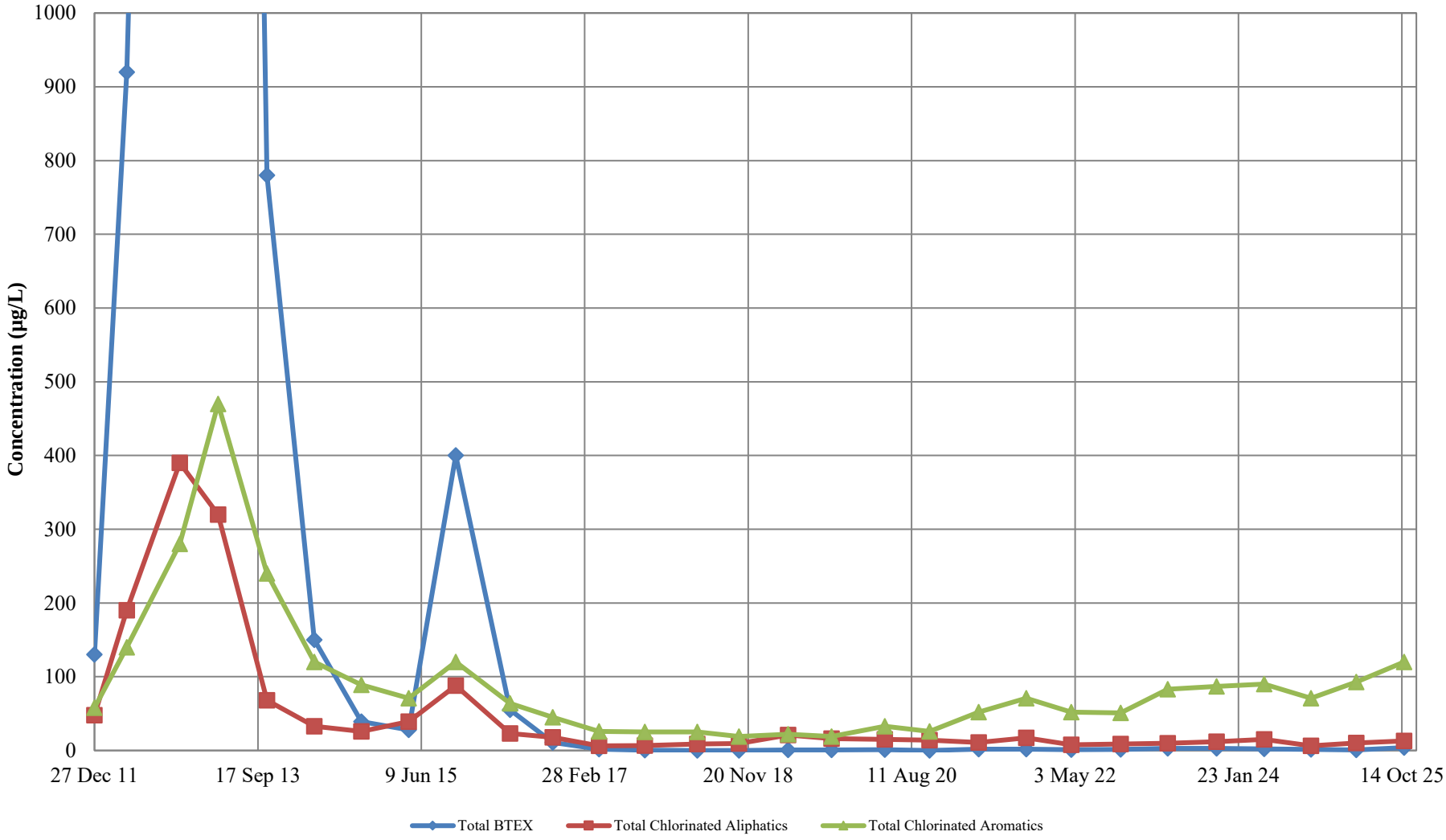

MW-18A VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

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Columbia, Maryland | April 2026

Figure 13

\\columbia-01\data\Databases_EDat Databases\Cortese\Outputs\Charts\[Historicaltrends_VOCs.xls]MW_18A




Notes:

Total BTEX concentration in November 2012 and April 2013 measured at 3,500 and 4,700 micrograms per liter, respectively.

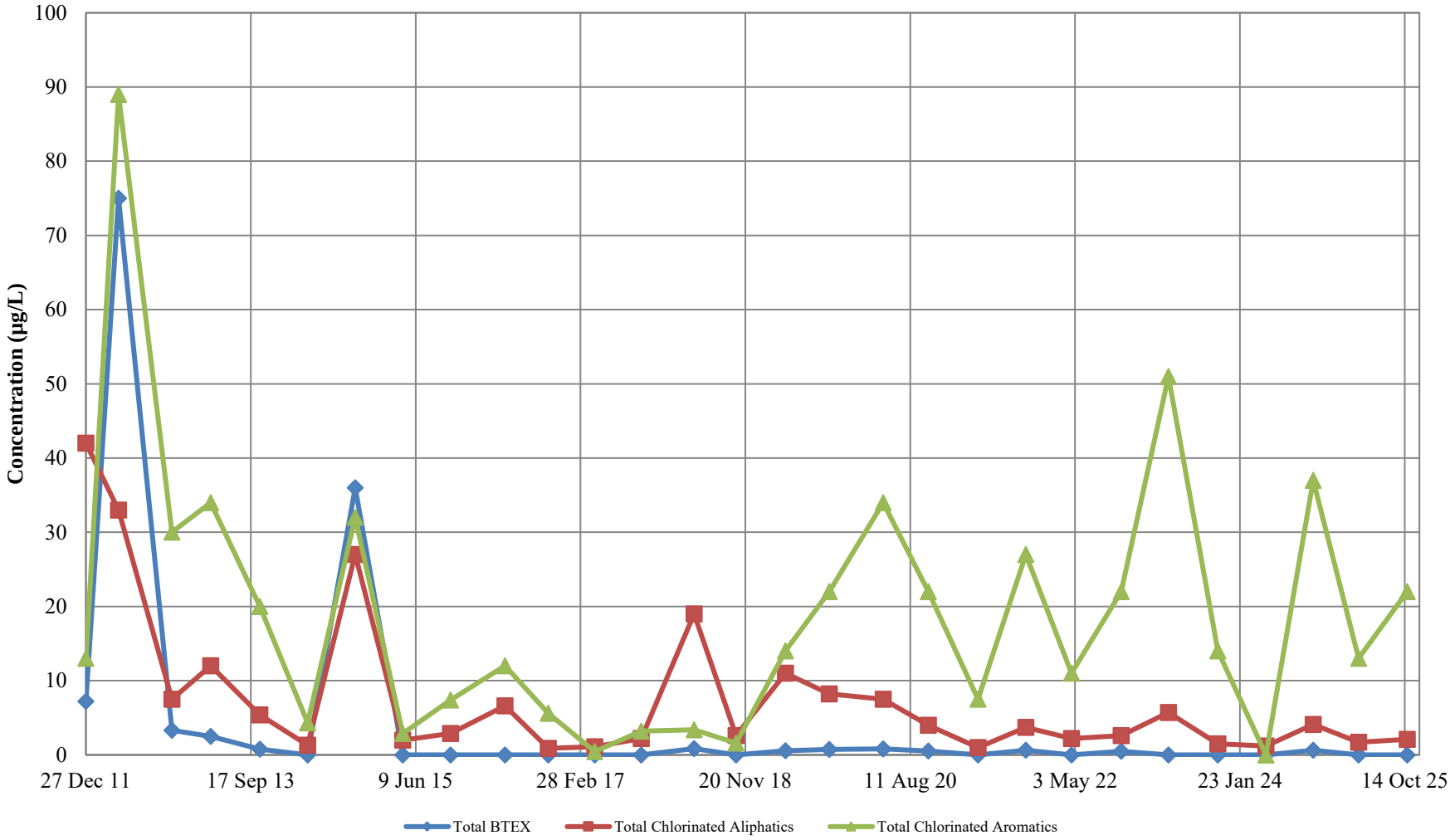
MW-18B VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

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Columbia, Maryland | April 2026

Figure 14

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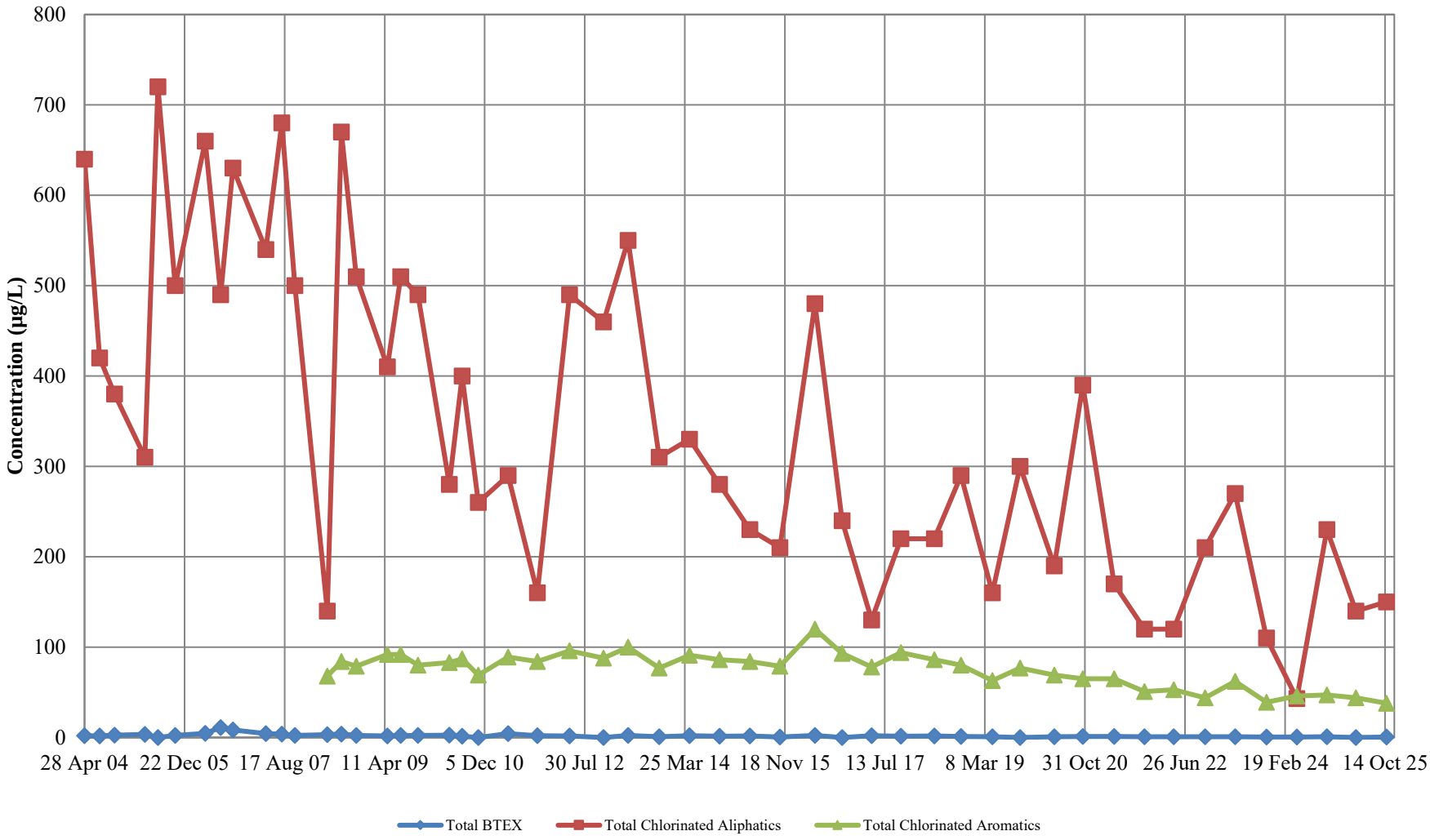

MW-18C VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

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Columbia, Maryland | April 2026

Figure 15

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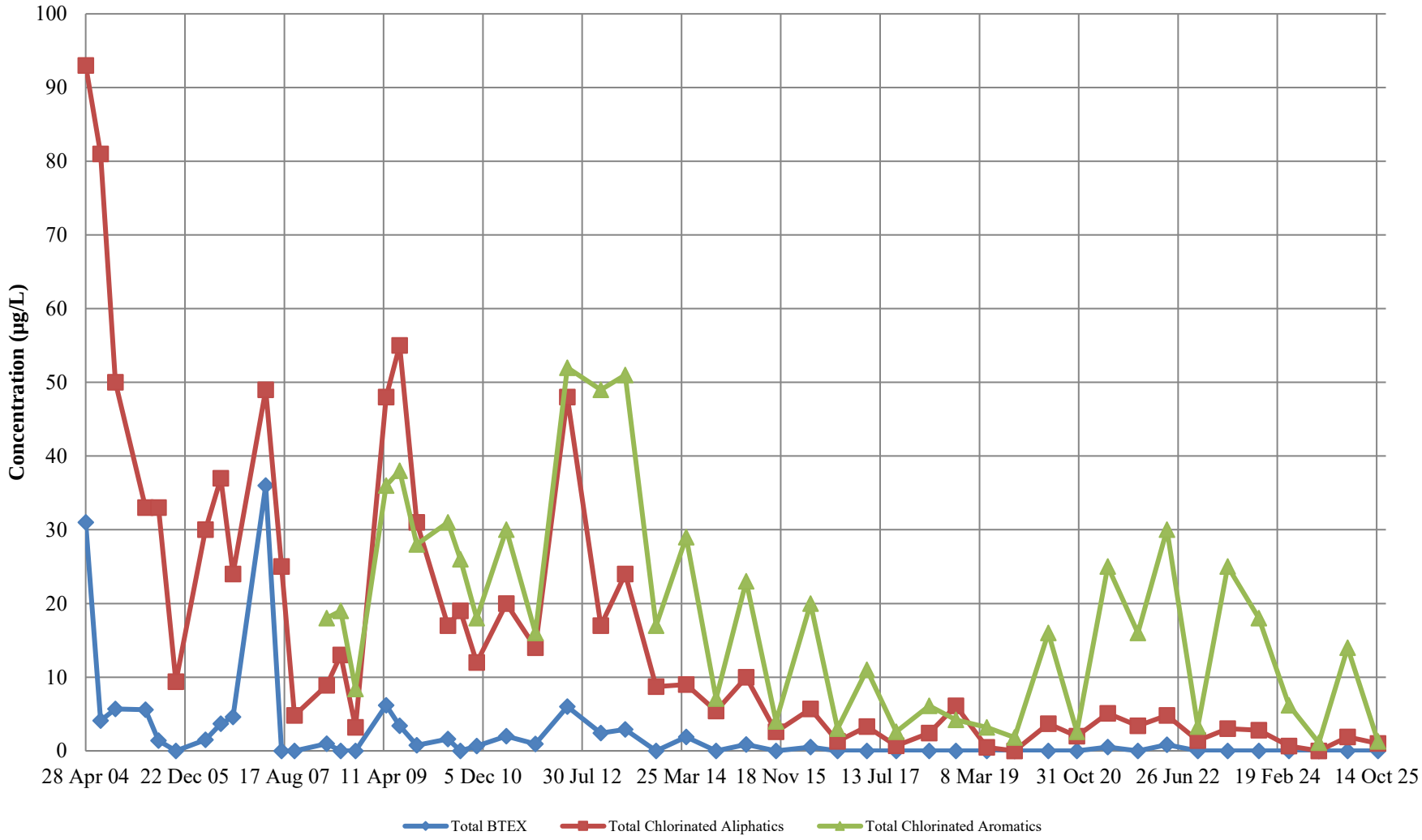

MW-6A VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

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Figure 16

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[Historicaltrends_VOCs.xls]MW_6A



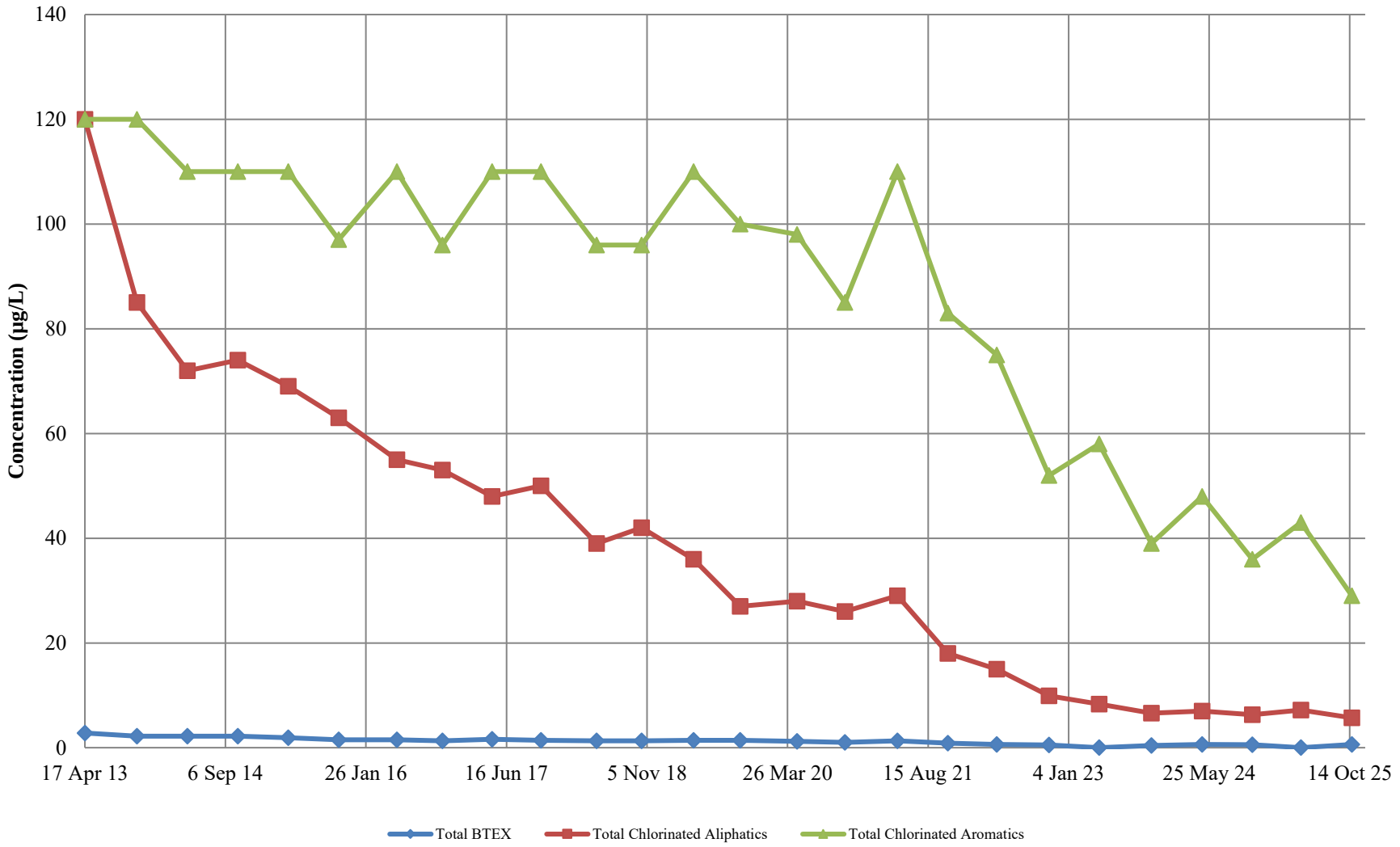

MW-6B VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

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Columbia, Maryland | April 2026

Figure 17

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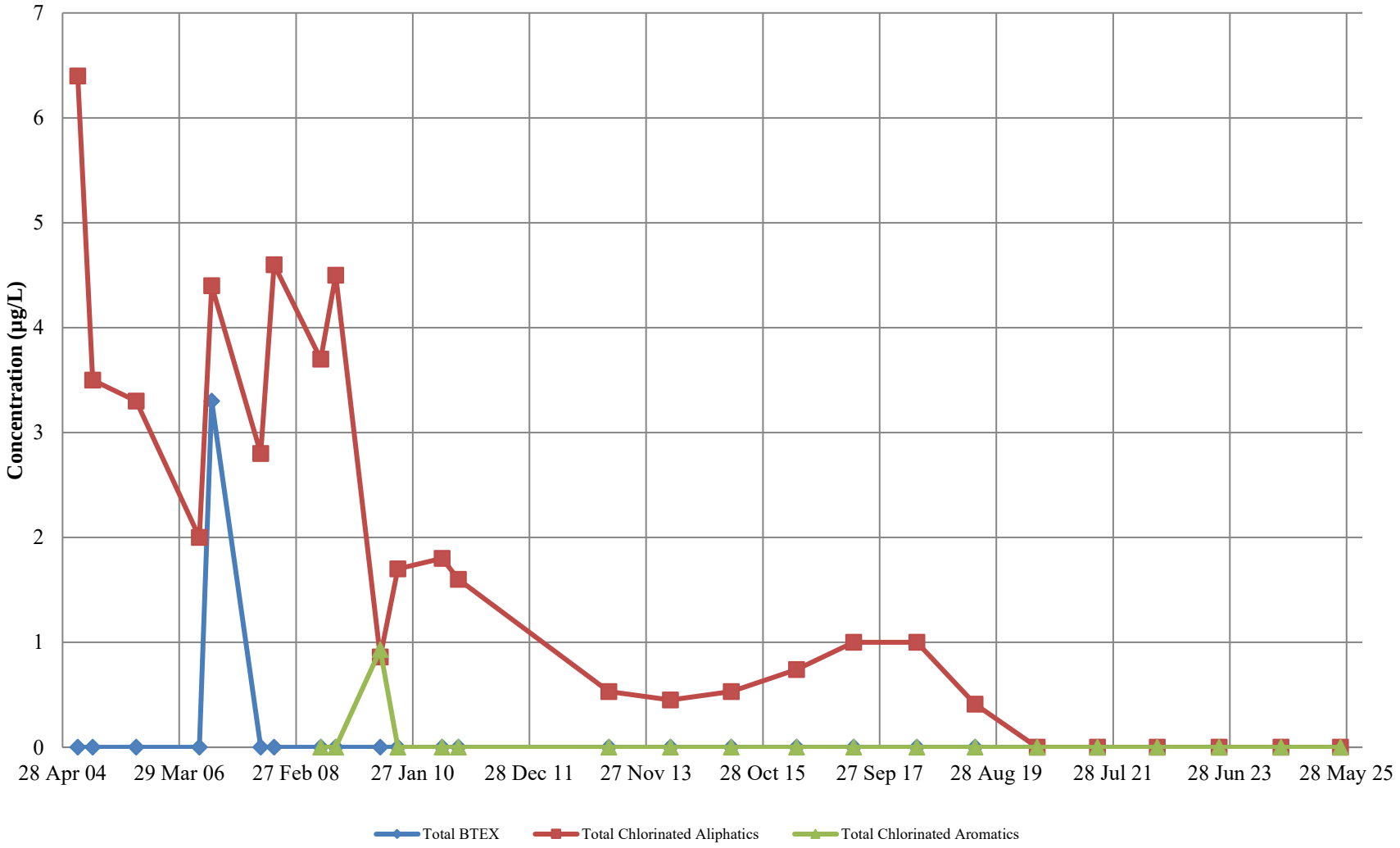

MW-21 VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

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Figure 18

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[Historicaltrends_VOCs.xls]MW_21



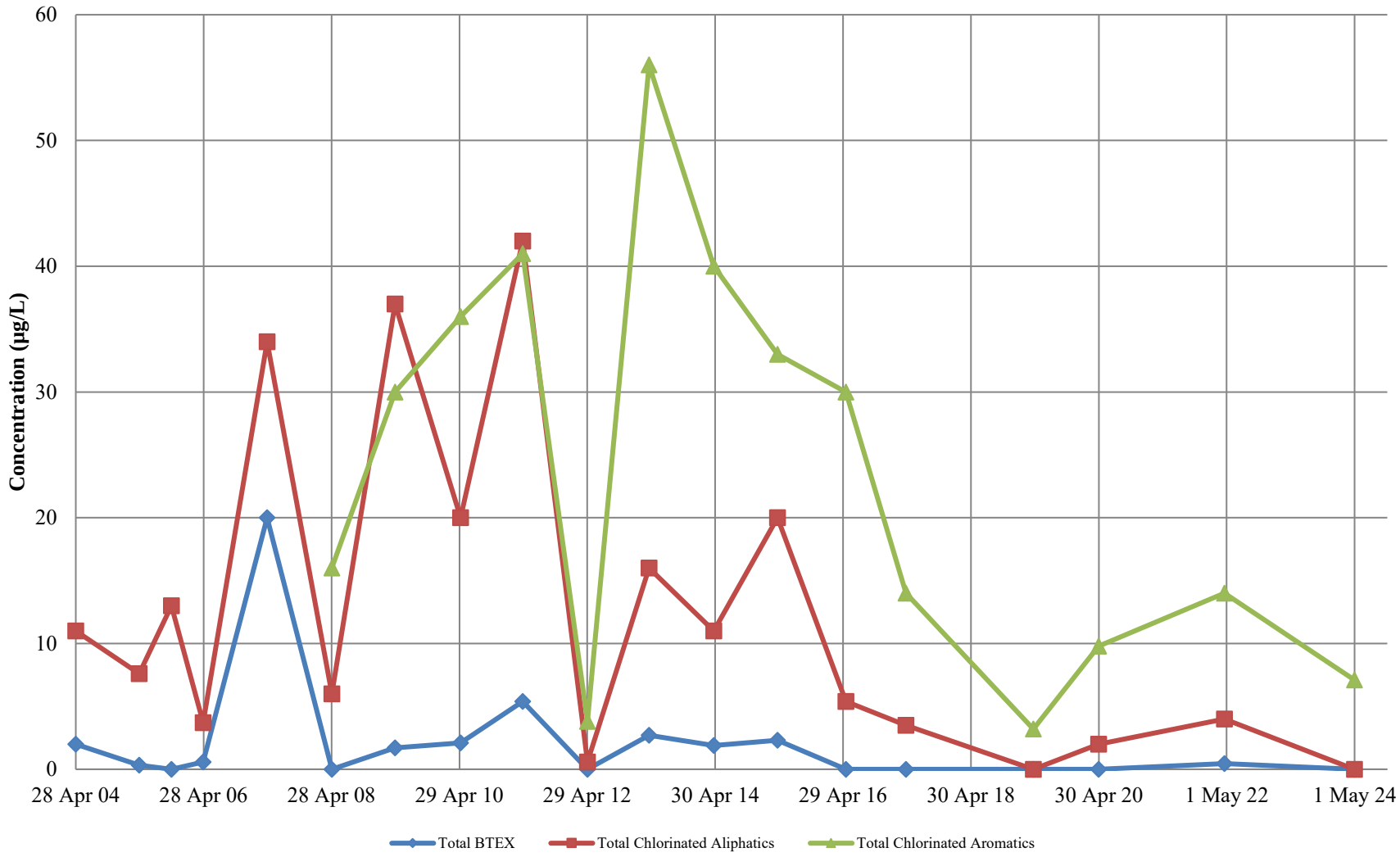

MW-7A VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 19

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EDat Databases\Cortese\Outputs\Charts\[Historicaltrends_VOCs.xls]MW_7A



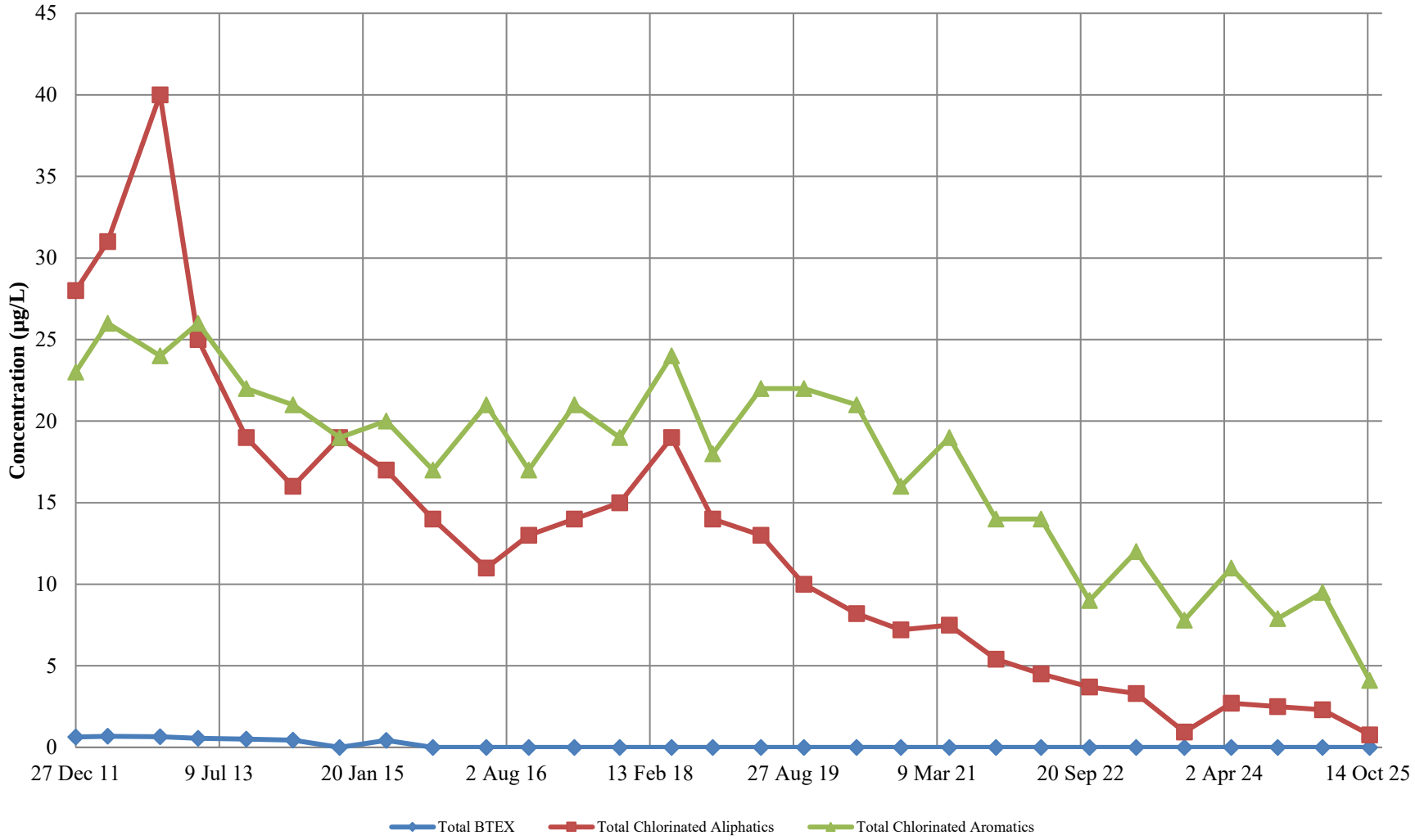

MW-7B VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

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Figure 20

Columbia, Maryland | April 2026

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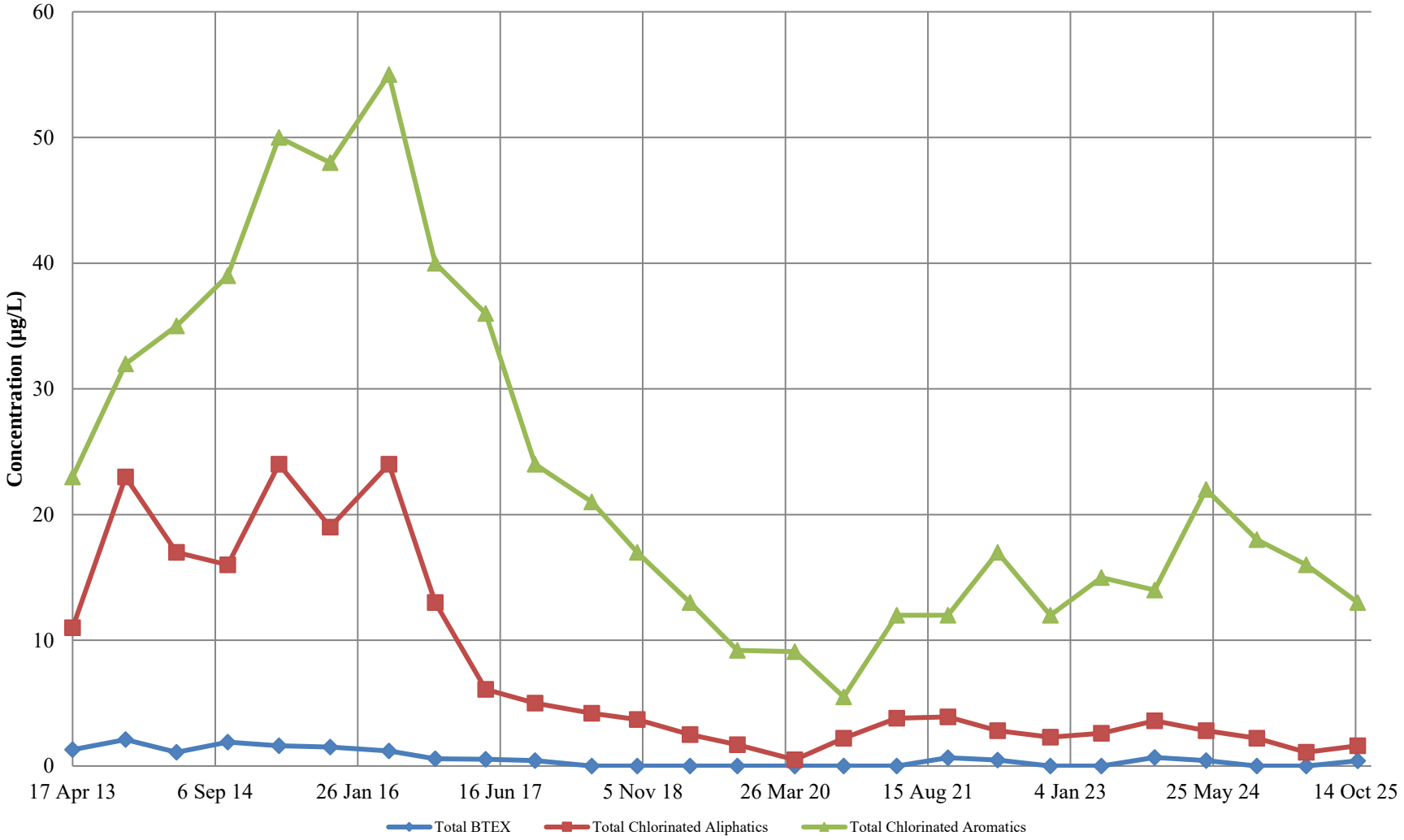

MW-7M VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

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Columbia, Maryland | April 2026

Figure 21

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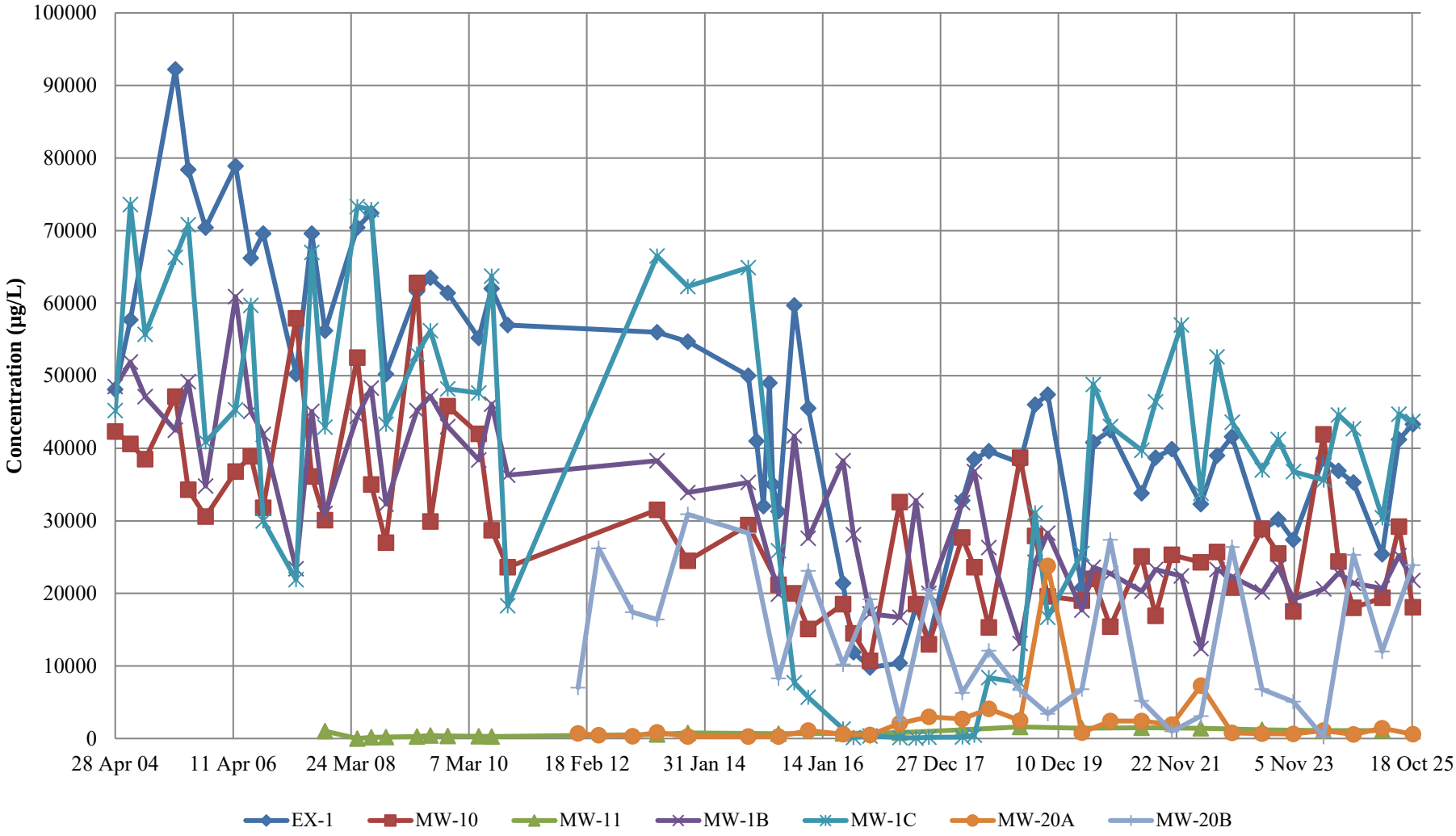

MW-22 VOC Concentration Trends
Cortese Landfill, Narrowsburg, New York

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Figure 22

Columbia, Maryland | April 2026

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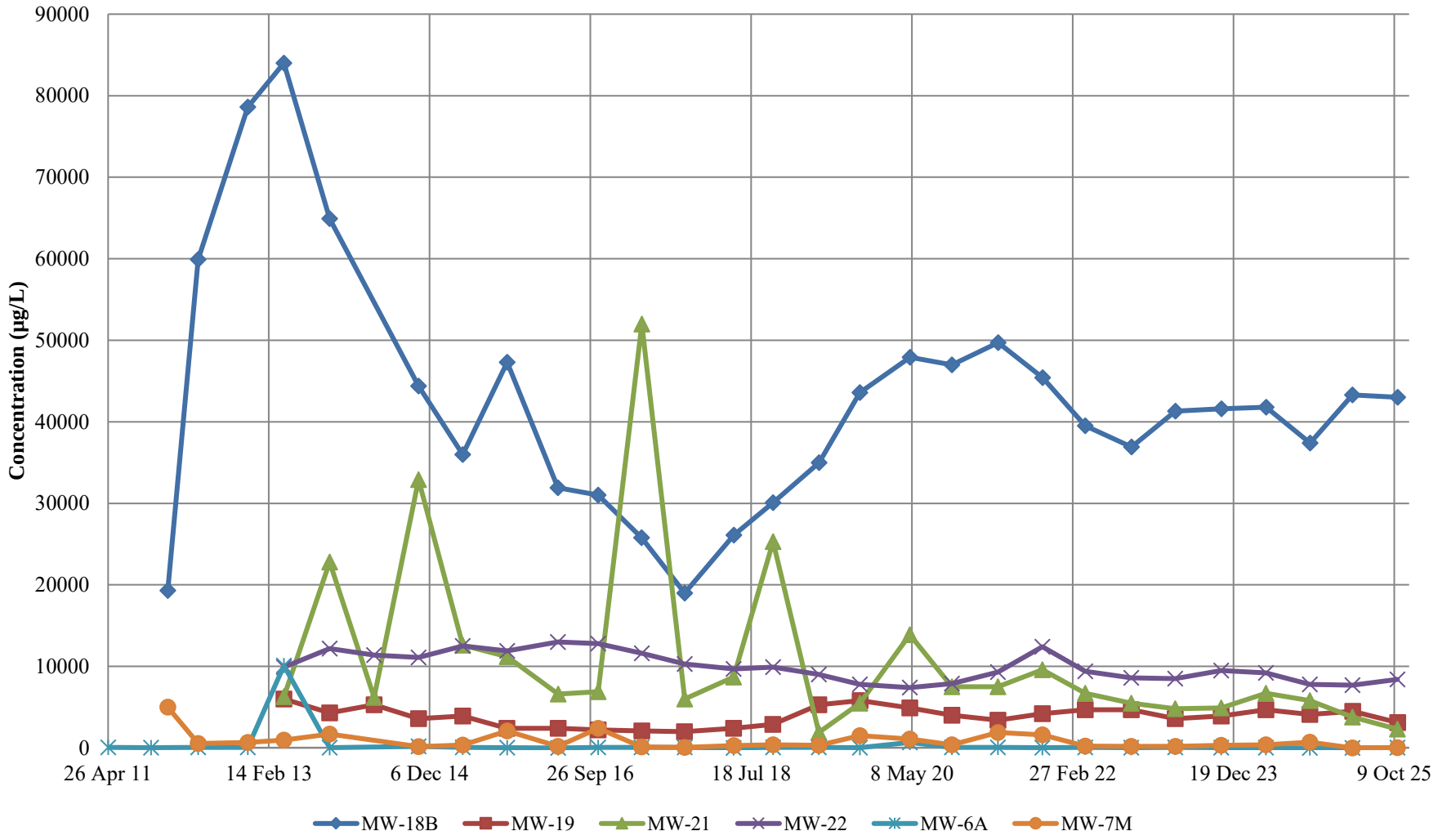

Iron Concentration Trends
Source Area Transect Wells
Cortese Landfill, Narrowsburg, New York

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Columbia, Maryland | April 2026

Figure 23

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[HistoricalTrends_Metals_SourceArea.xls]Arsenic_T



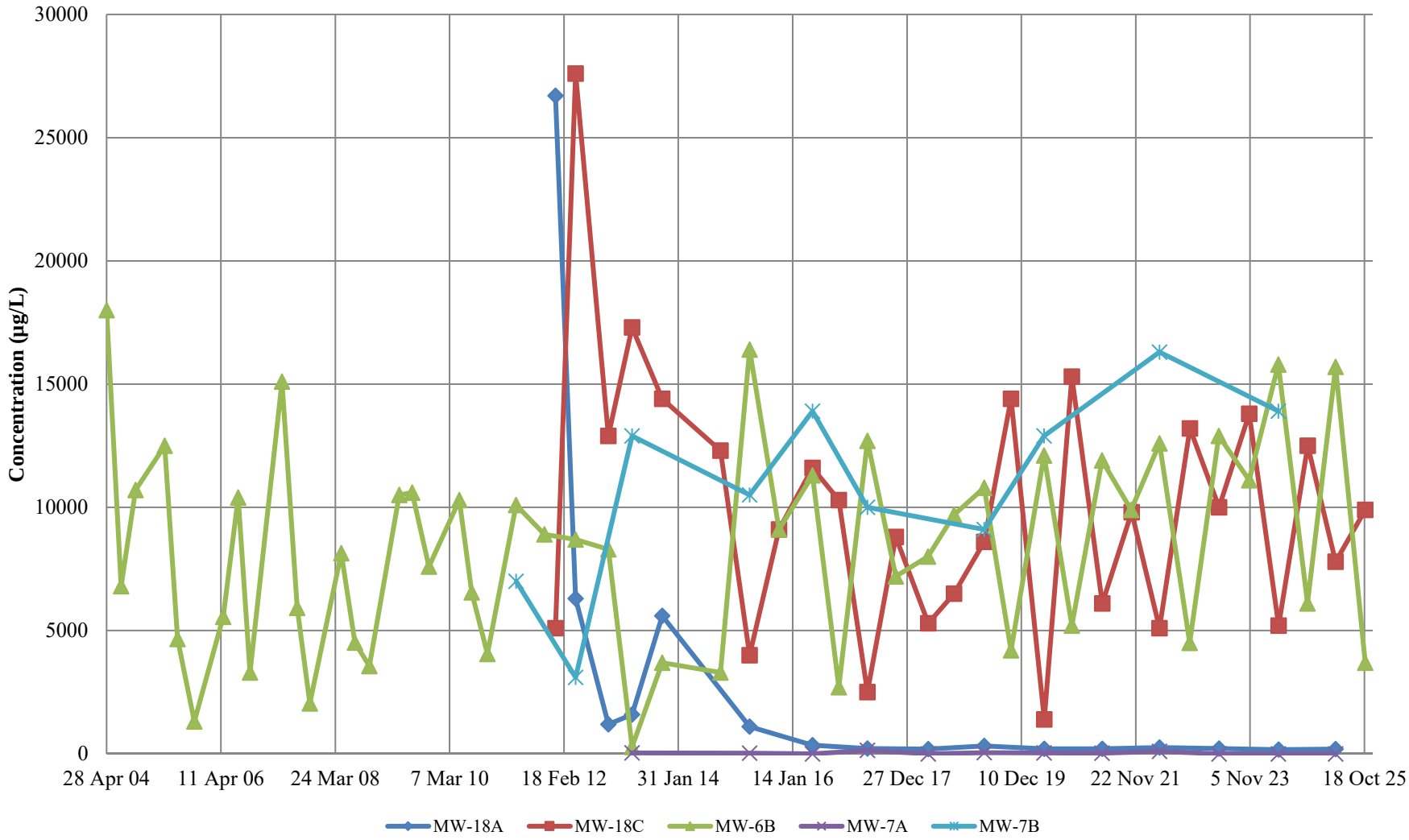

Iron Concentration Trends
Downgradient Intermediate Depth Wells
Cortese Landfill, Narrowsburg, New York

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Figure 24

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[Historicaltrends_Metals_DGID.xls]Data_Arsenic_T



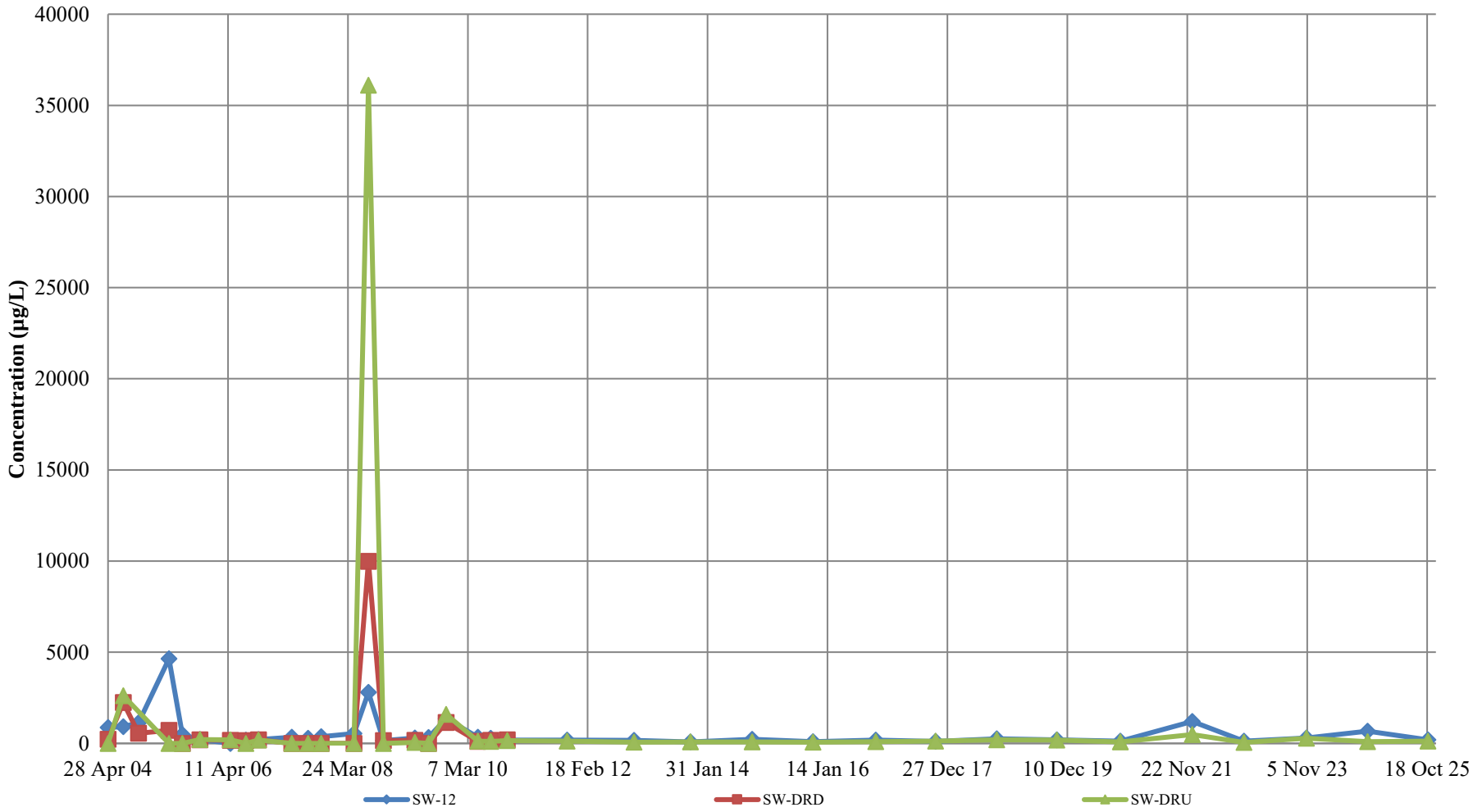

Iron Concentration Trends
Downgradient Shallow and Deep Wells
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 25

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[Historicaltrends_Metals_DGSD.xls]Data_Arsenic_T



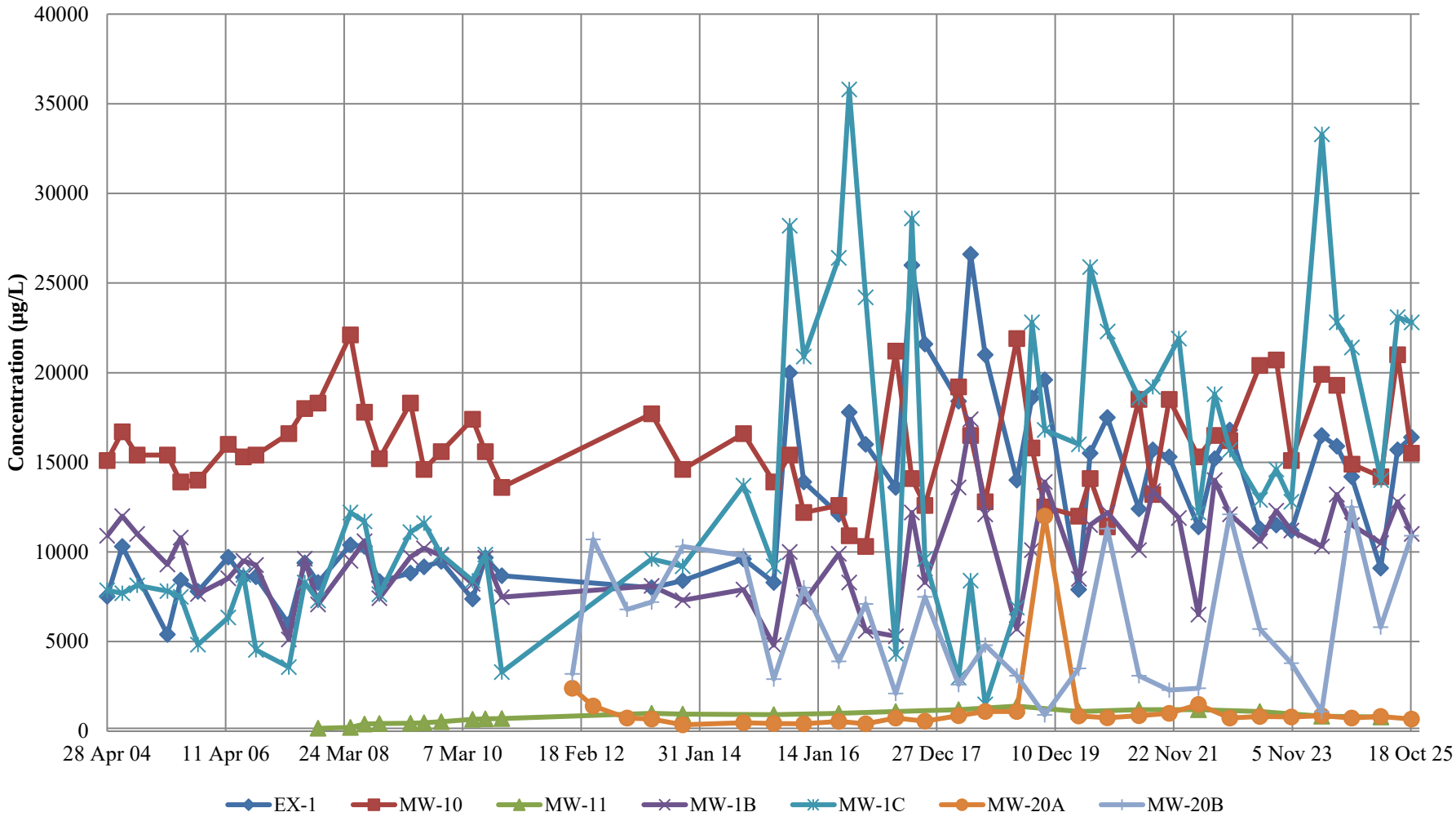

Iron Concentration Trends
Surface Water Points
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 26

Columbia, Maryland | April 2026

J:\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\HistoricalTrends_Metals_SW.xls]Data_Arsenic_T



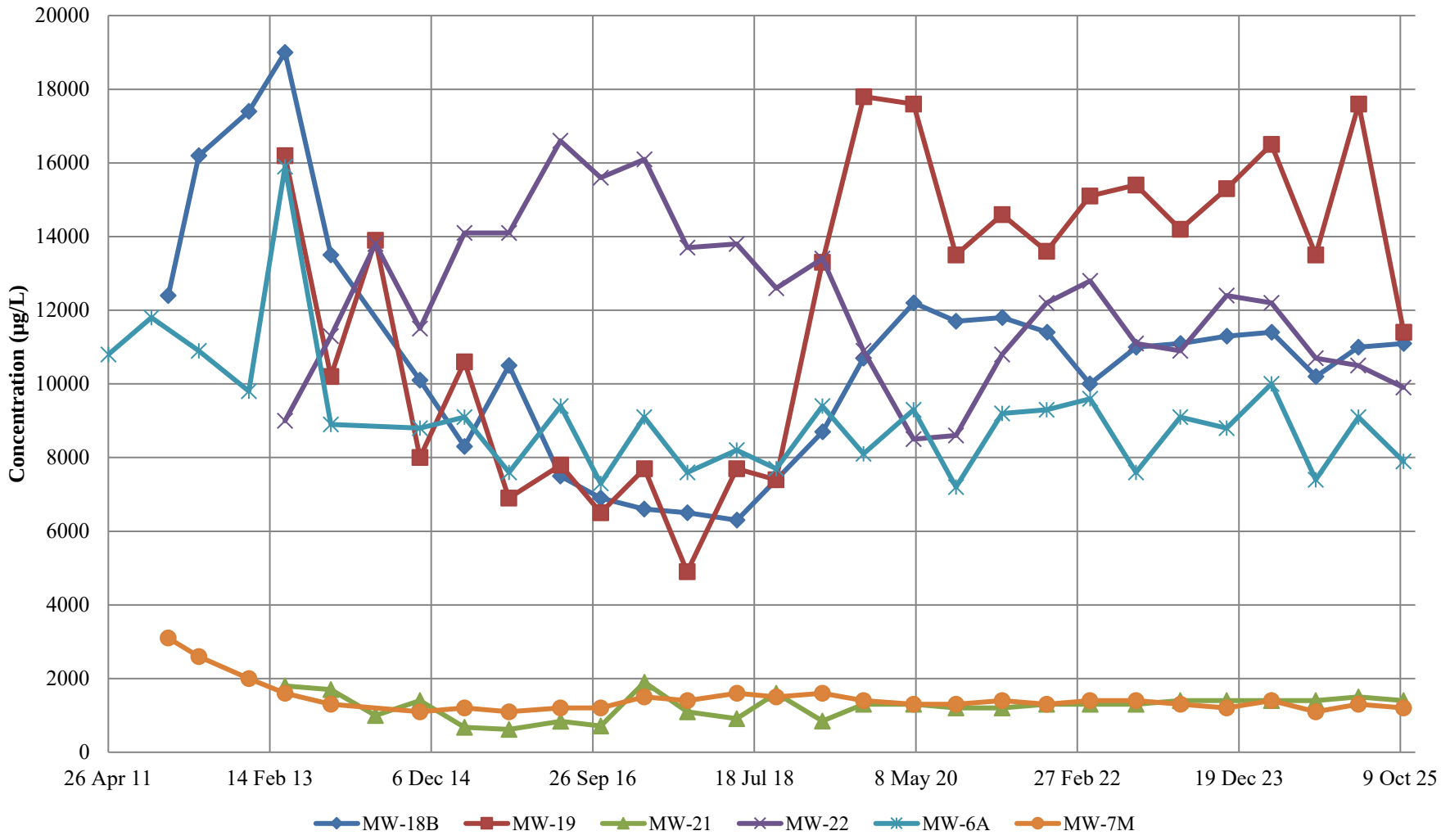

Manganese Concentration Trends
Source Area Transect Wells
Cortese Landfill, Narrowsburg, New York

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Columbia, Maryland | April 2026

Figure 27

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[HistoricalTrends_Metals_SourceArea.xls]Arsenic_T



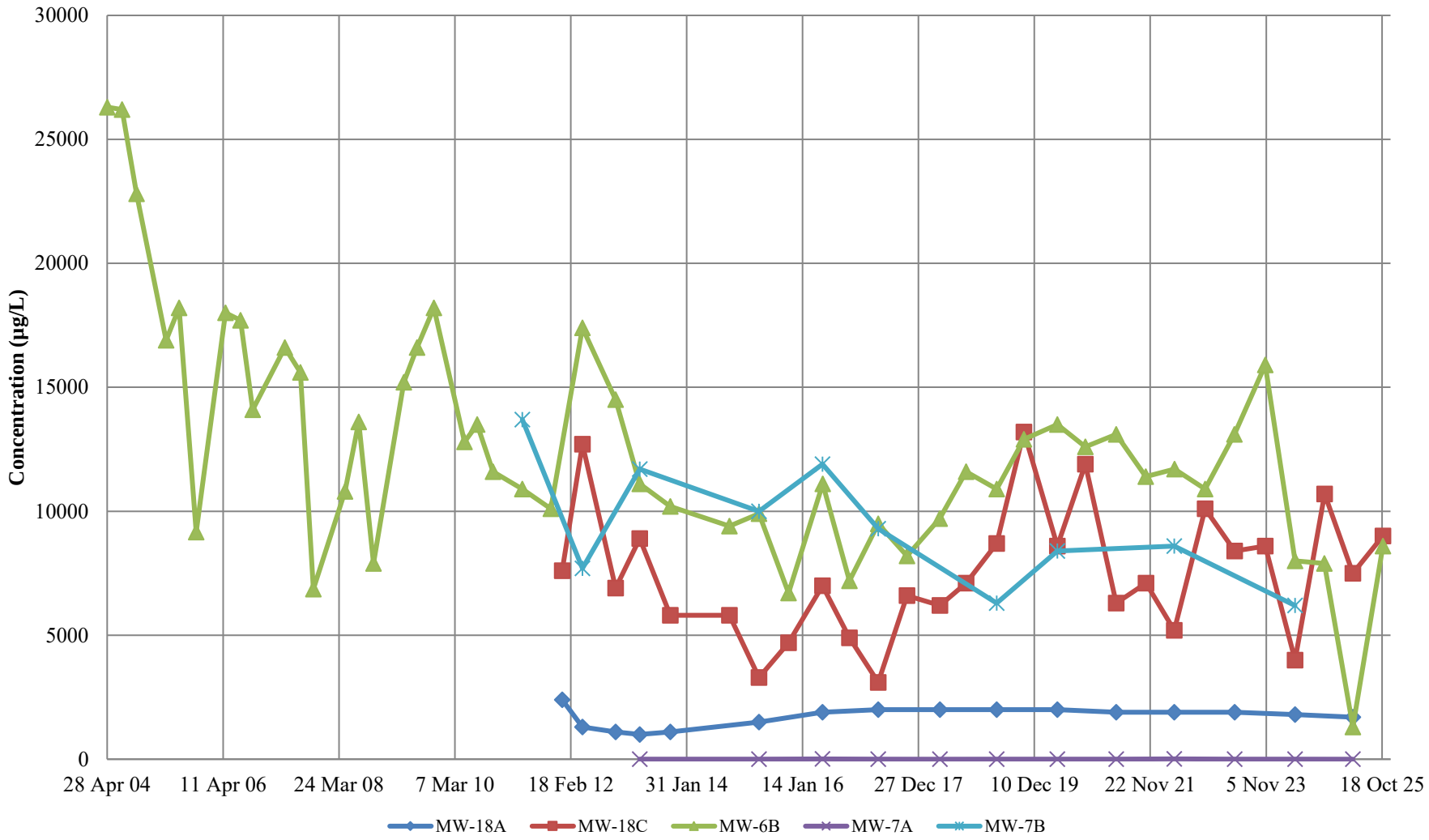

Manganese Concentration Trends
Downgradient Intermediate Depth Wells
Cortese Landfill, Narrowsburg, New York

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Figure 28

Columbia, Maryland | April 2026

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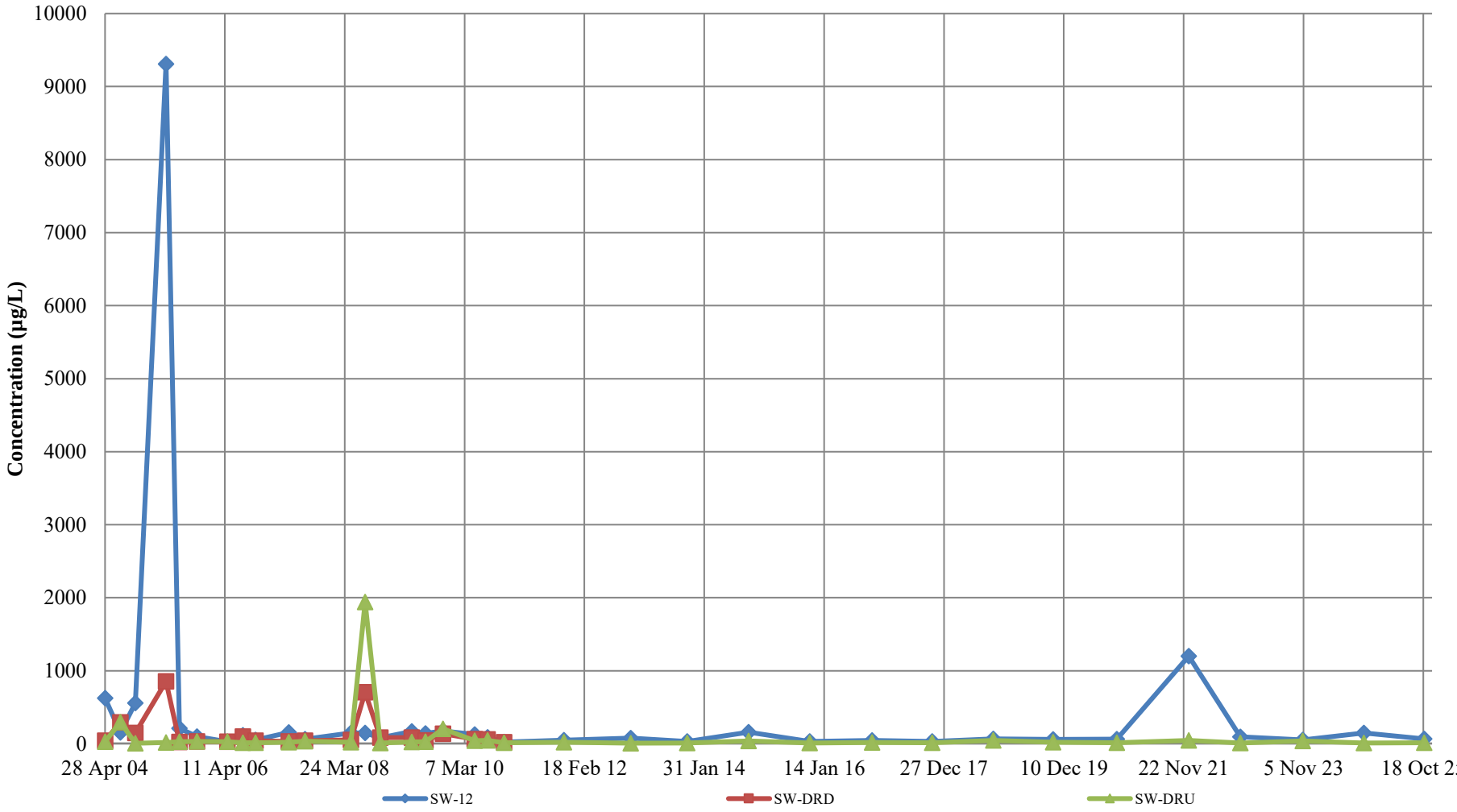

Manganese Concentration Trends
Downgradient Shallow and Deep Wells
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 29

Columbia, Maryland | April 2026

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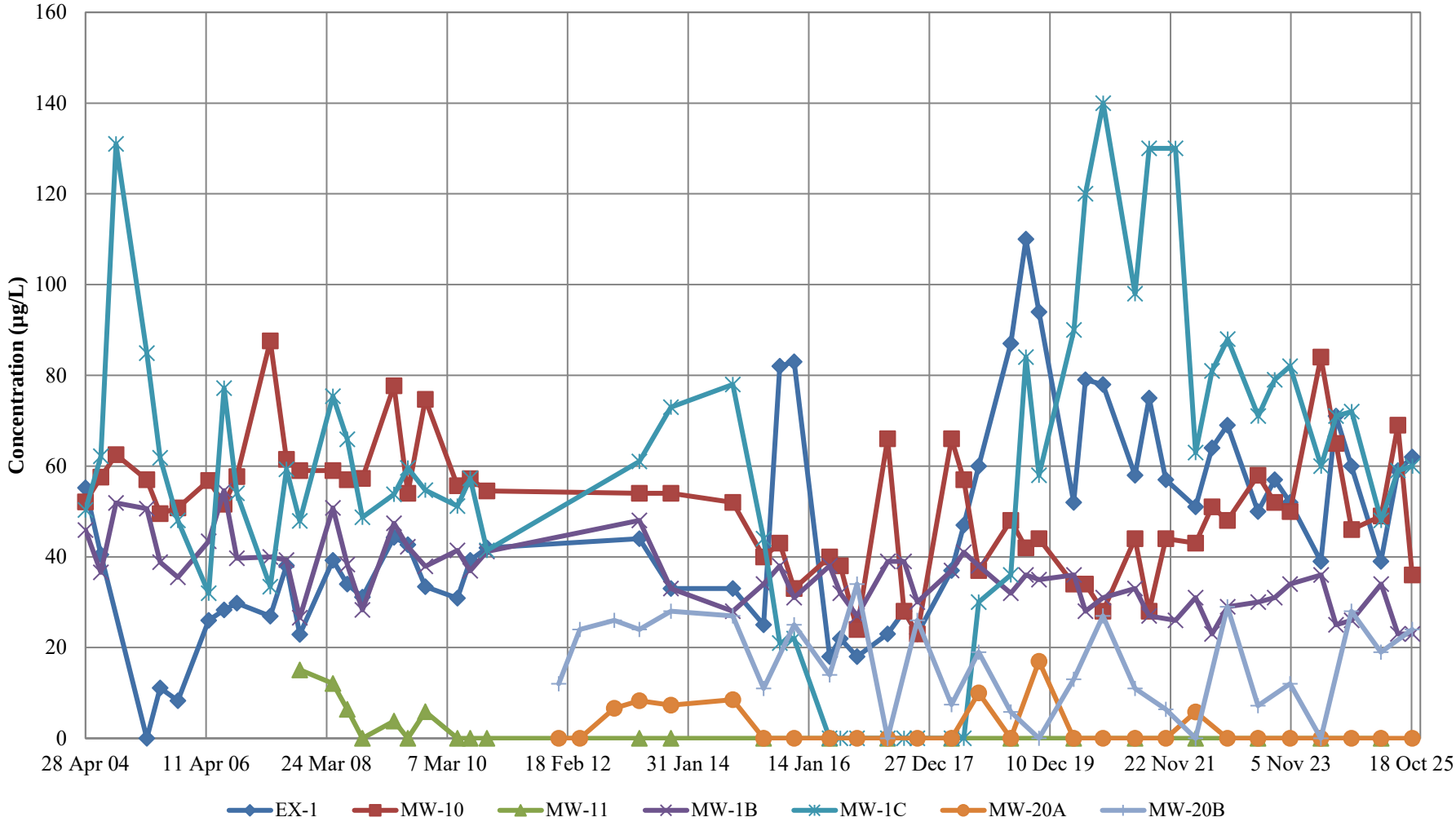

Manganese Concentration Trends
Surface Water Points
Cortese Landfill, Narrowsburg, New York

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Figure 30

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[HistoricalTrends_Metals_SW.xls]Data_Arsenic_T



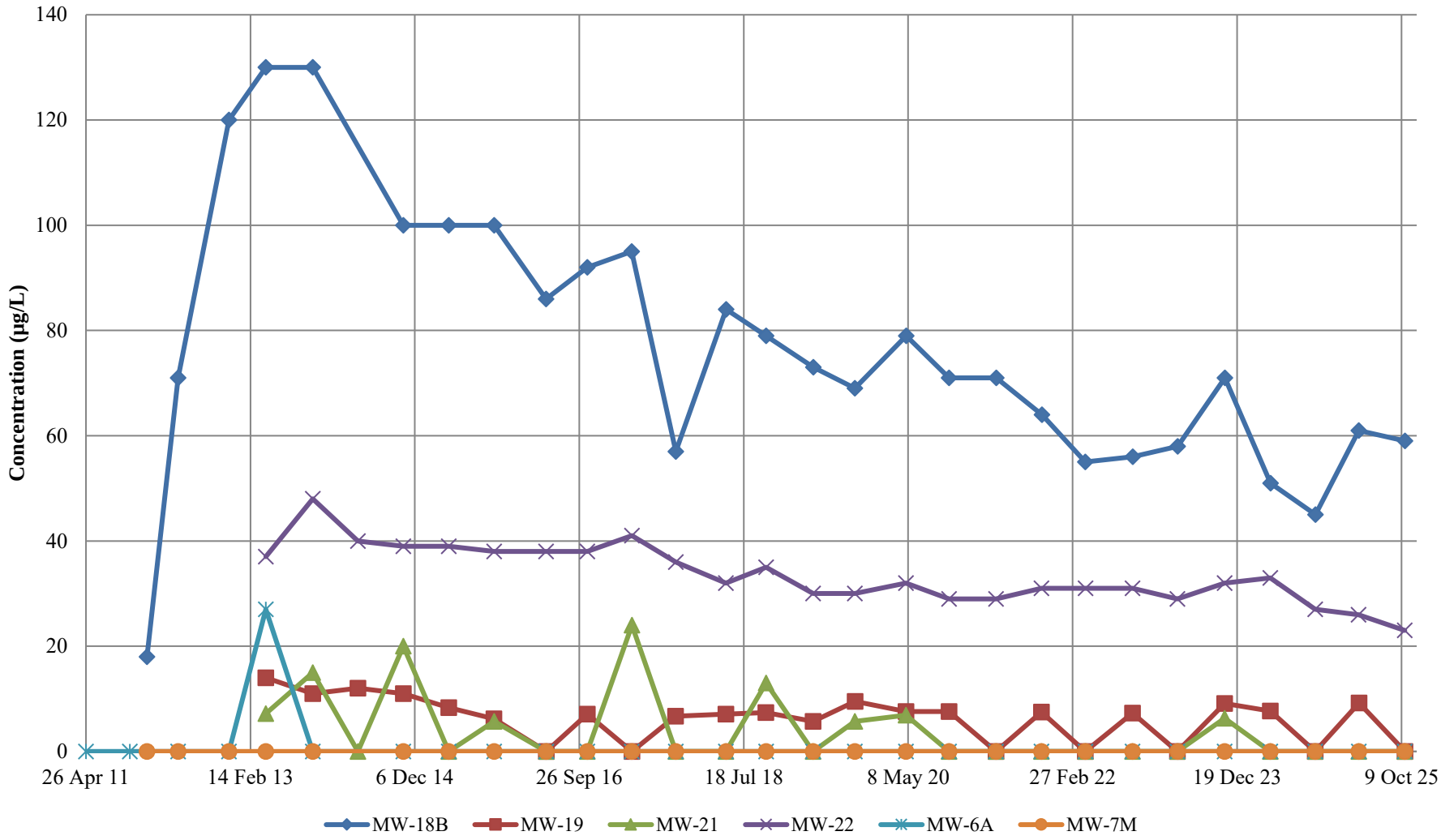

Arsenic Concentration Trends
Source Area Transect Wells
Cortese Landfill, Narrowsburg, New York

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Figure 31

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EdDat Databases\Cortese\Outputs\Charts\[HistoricalTrends_Metals_SourceArea.xls]Arsenic_T



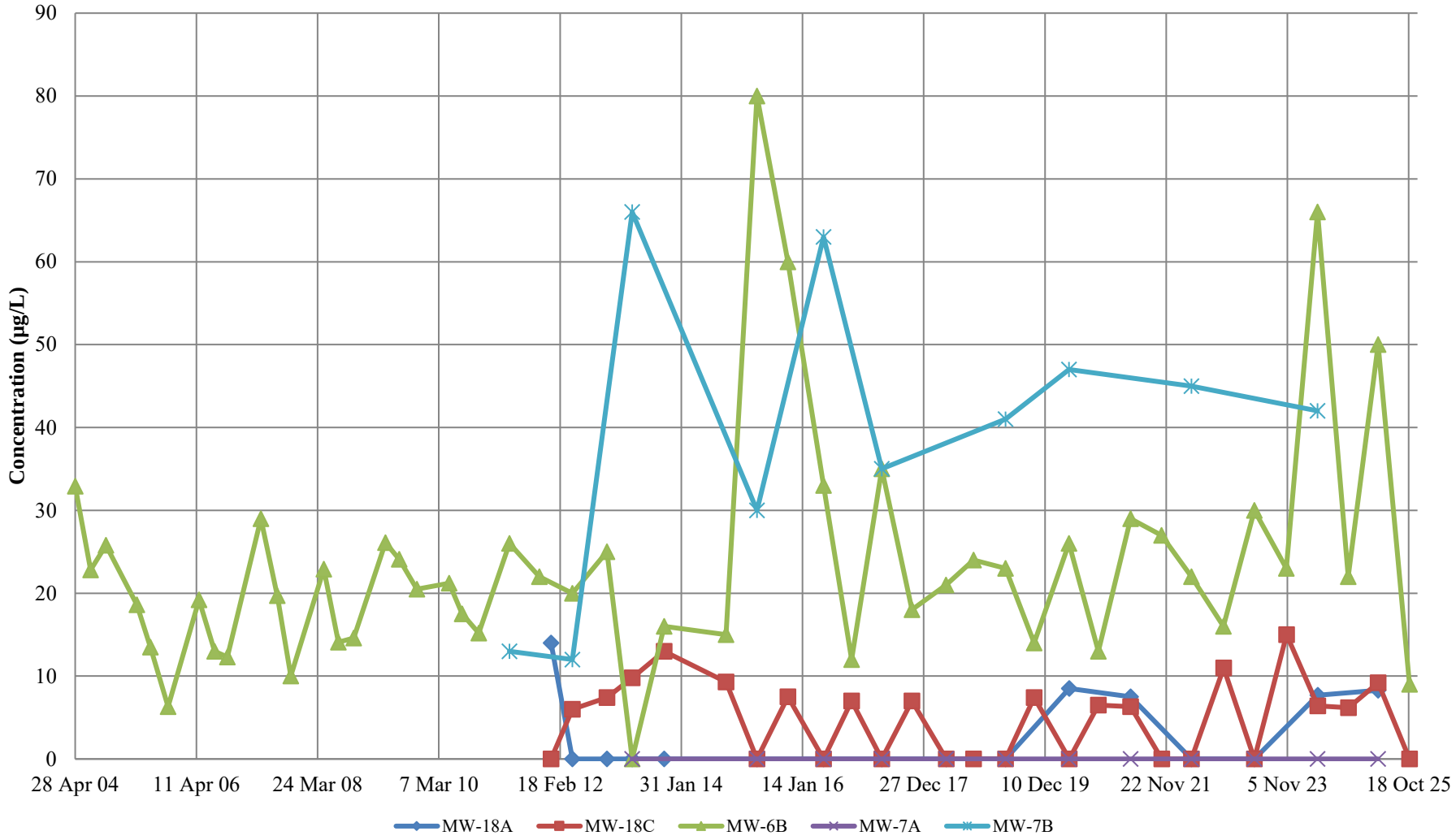

Arsenic Concentration Trends
Downgradient Intermediate Depth Wells
Cortese Landfill, Narrowsburg, New York

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Columbia, Maryland | April 2026

Figure 32

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[Historicaltrends_Metals_DGID.xls]Data_Arsenic_T



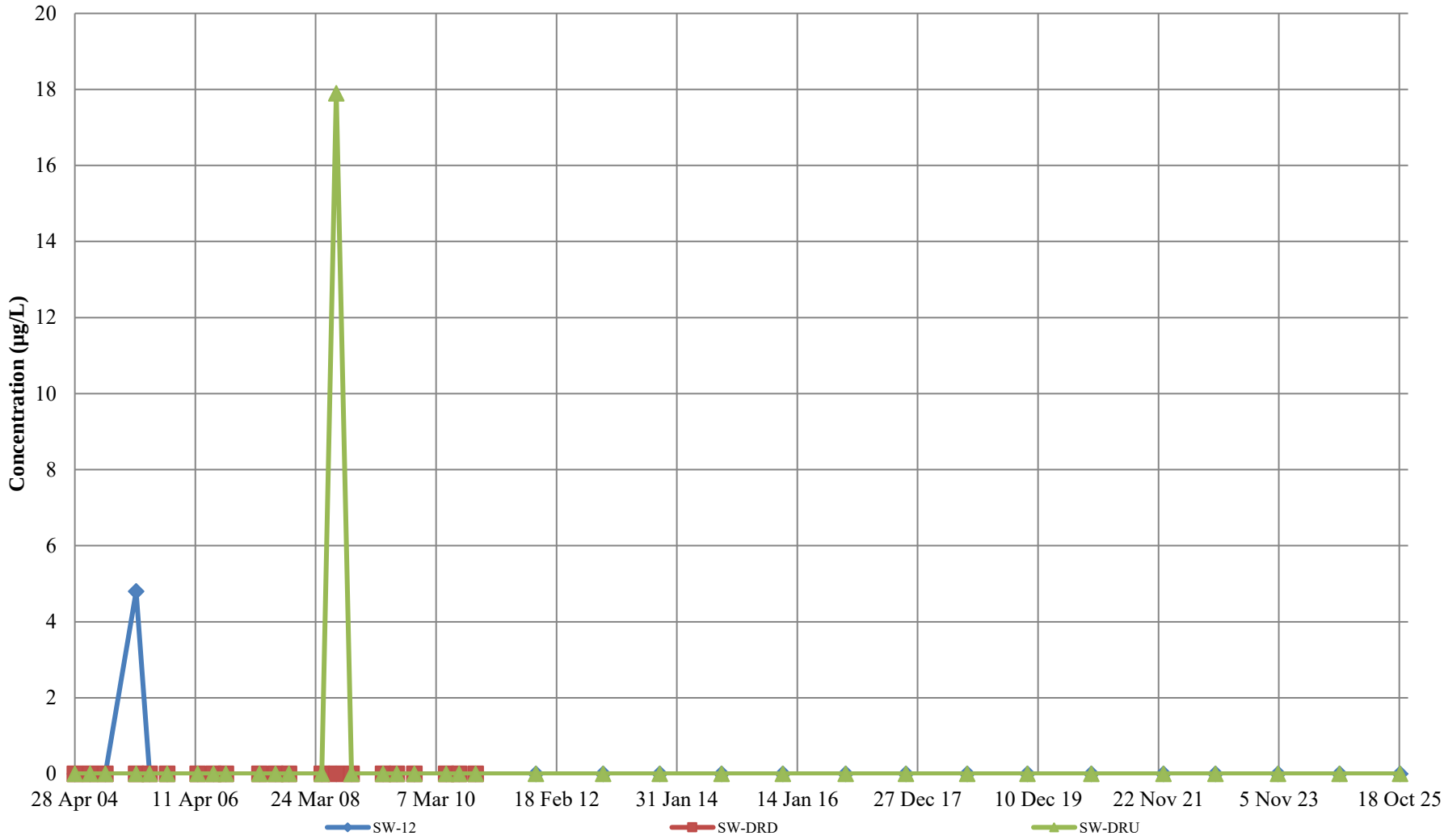

Arsenic Concentration Trends
Downgradient Shallow and Deep Wells
Cortese Landfill, Narrowsburg, New York

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Figure 33

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[HistoricalTrends_Metals_DGSD.xls]Data_Arsenic_T



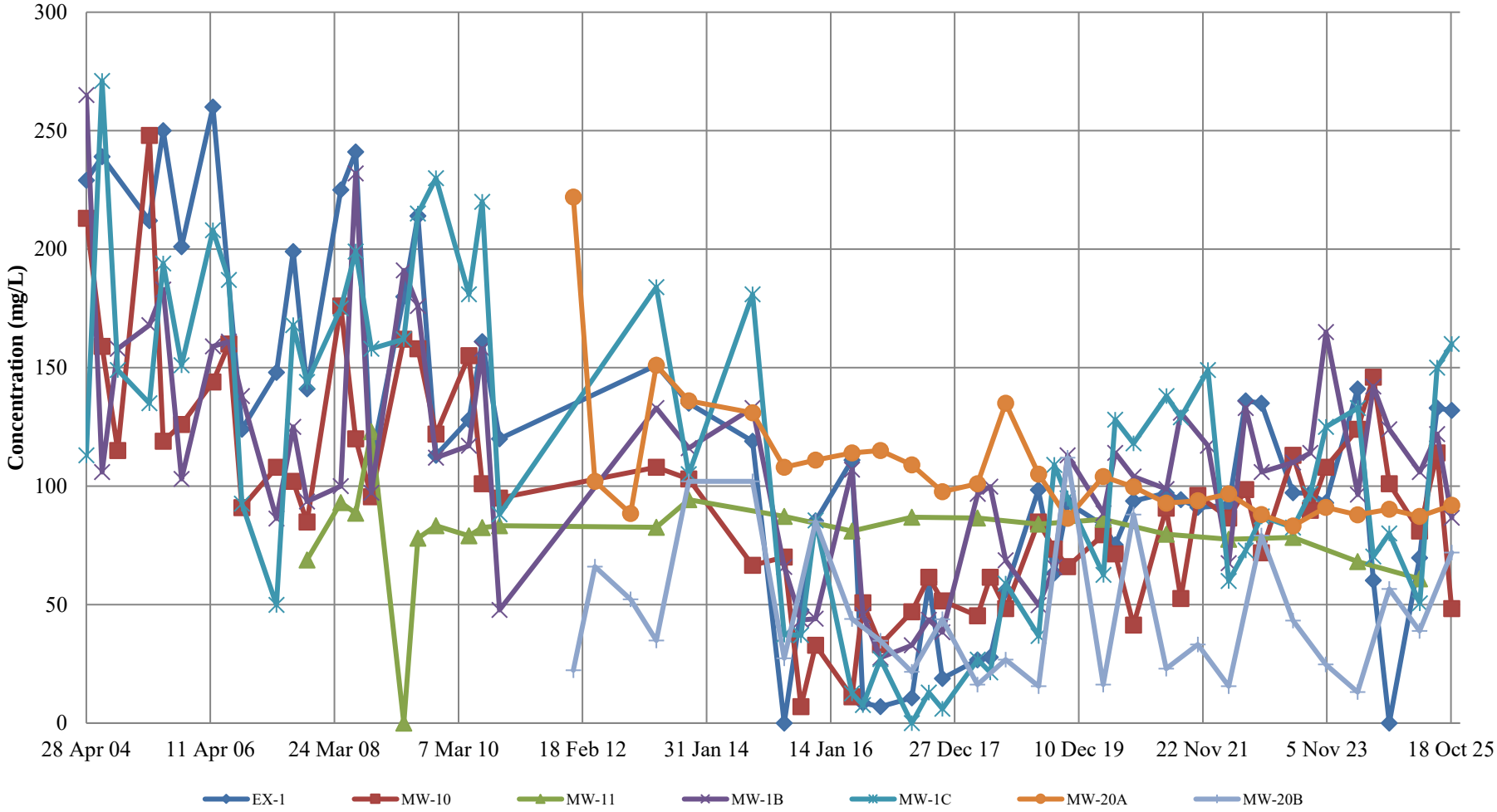

Arsenic Concentration Trends
Surface Water Points
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 34

Columbia, Maryland | April 2026

J:\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\HistoricalTrends_Metals_SW.xls]Data_Arsenic_T



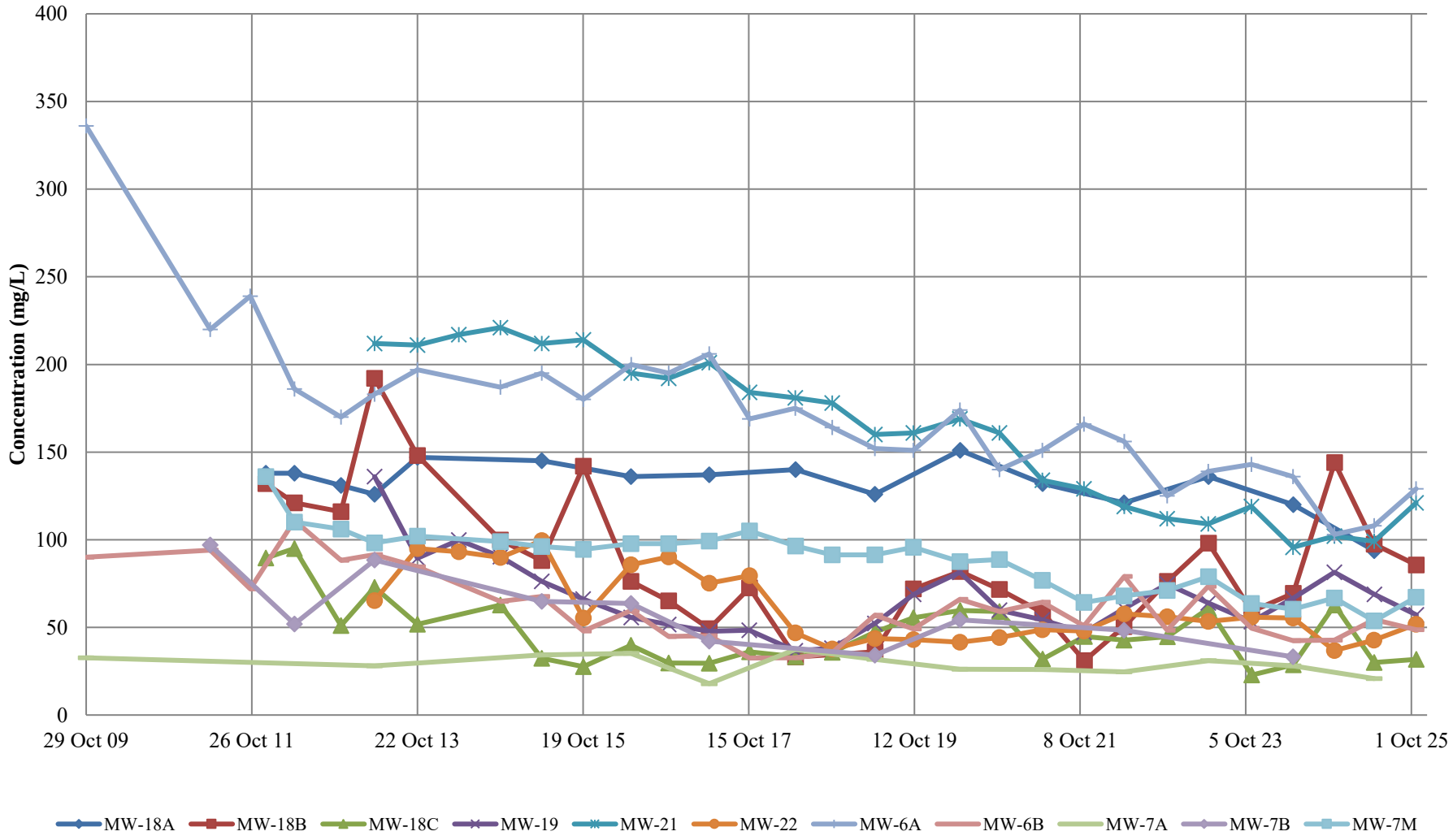

Total Alkalinity Trends
Source Area Transect Wells
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 35

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EDat Databases\Cortese\Outputs\Charts\[HistoricalTrends_WellChem_SourceArea.xls]Data_Sulfate



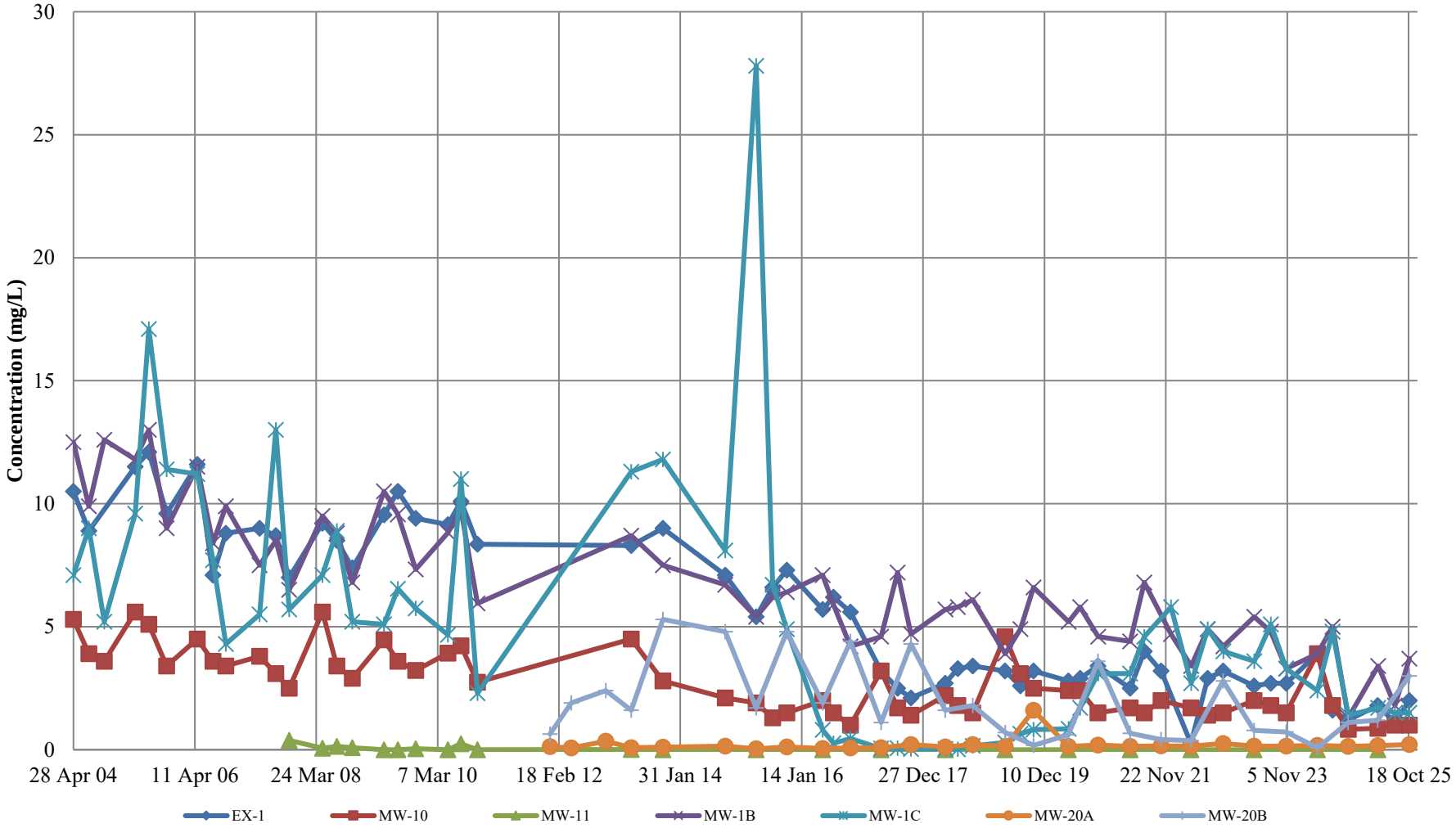

Total Alkalinity Trends
Downgradient Wells
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 36

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[Historicaltrends_WellChem_DGWells.xls]Data_Alkalinity



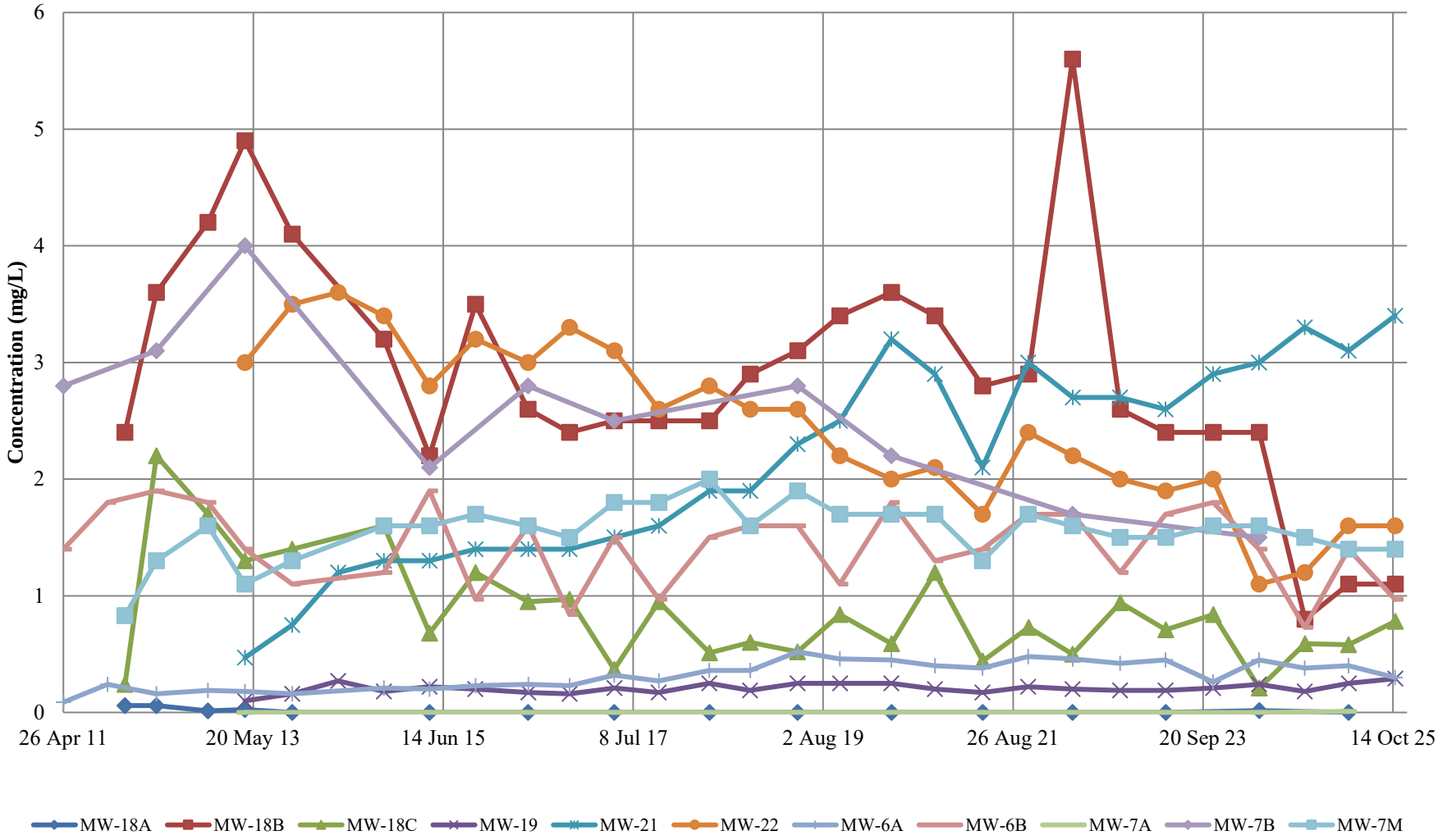

Ammonia Trends
Source Area Transect Wells
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 37

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EDat Databases\Cortese\Outputs\Charts\[HistoricalTrends_WellChem_SourceArea.xls]Data_Sulfate



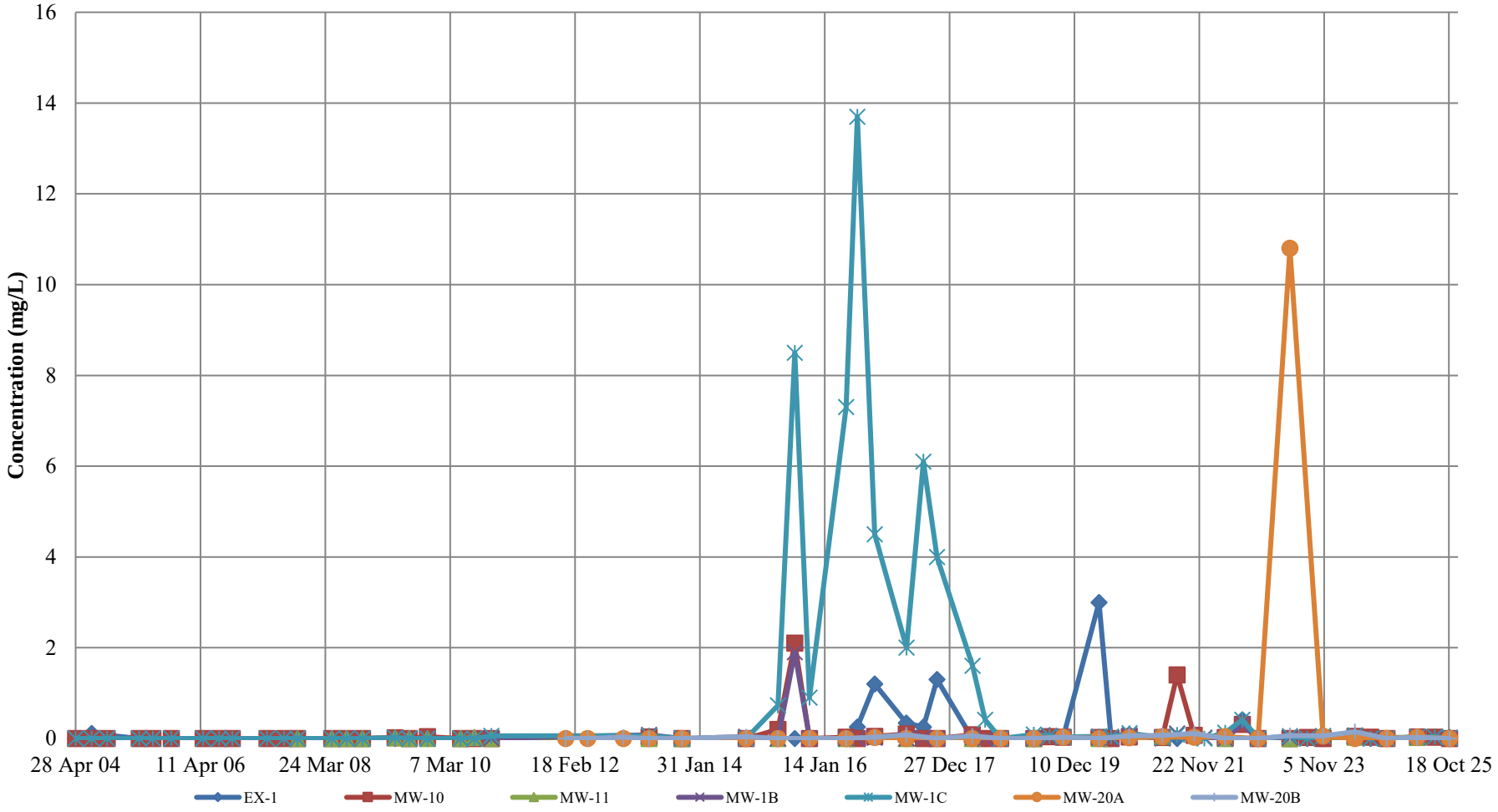

Ammonia Trends
Downgradient Wells
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 38

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[HistoricalTrends_WellChem_DGWells.xls]Data_Alkalinity



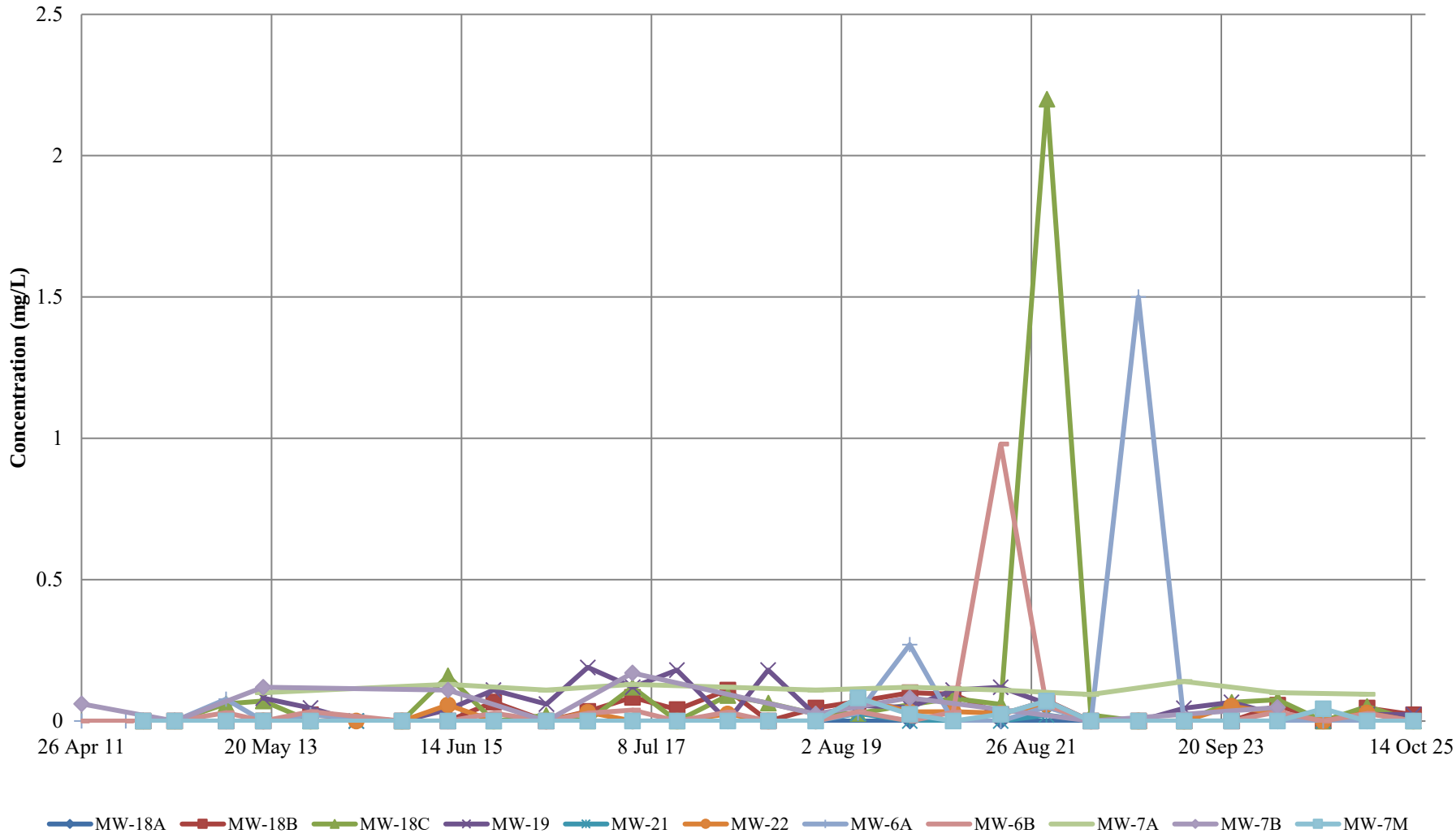

Nitrate-Nitrite Trends
Source Area Transect Wells
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 39

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[HistoricalTrends_WellChem_SourceArea.xls]Data_Sulfate



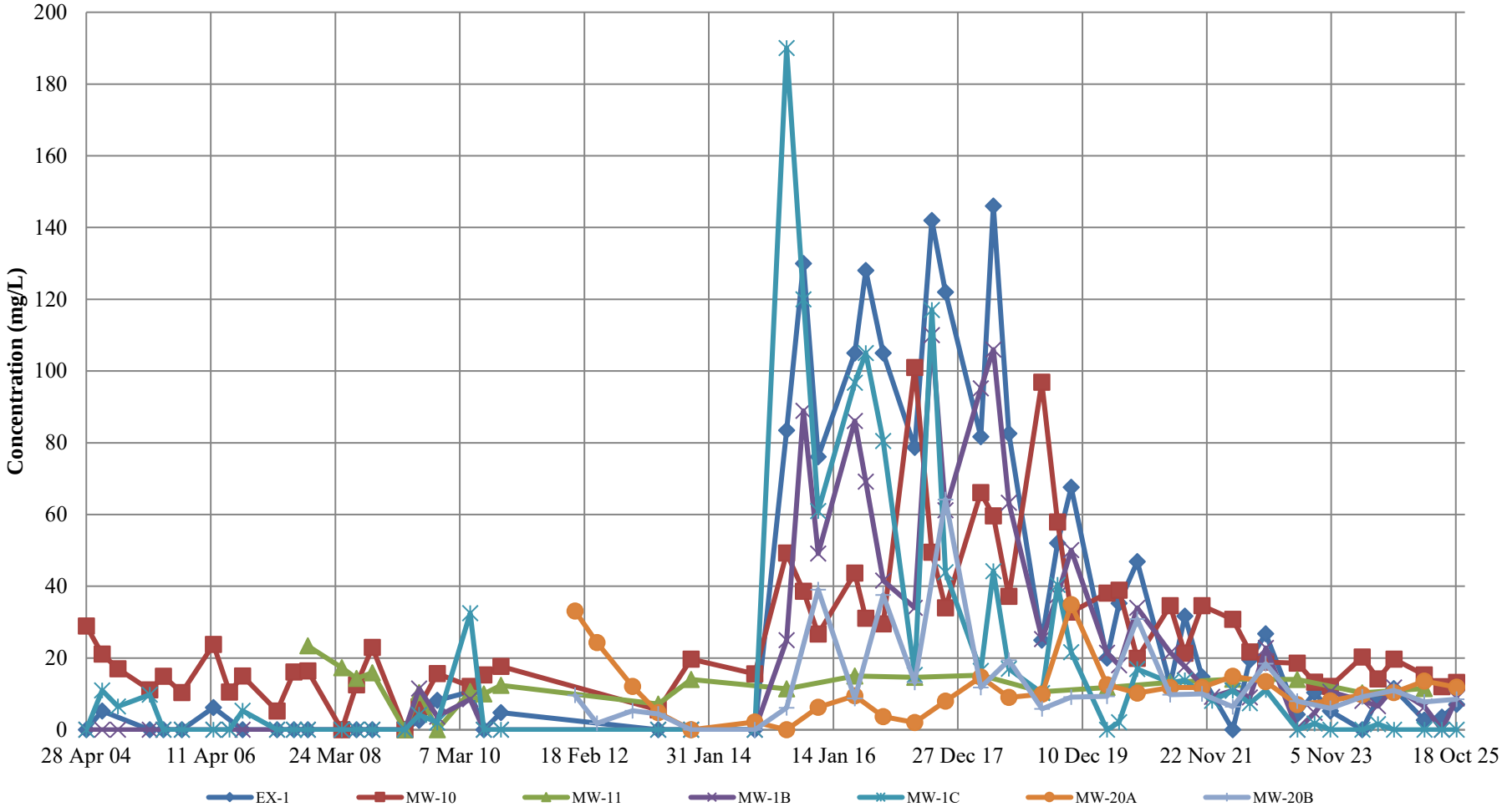

Nitrate-Nitrite Trends
Downgradient Wells
Cortese Landfill, Narrowburg, New York

Geosyntec consultants

Figure 40

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[HistoricalTrends_WellChem_DGWells.xls]Data_Alkalinity



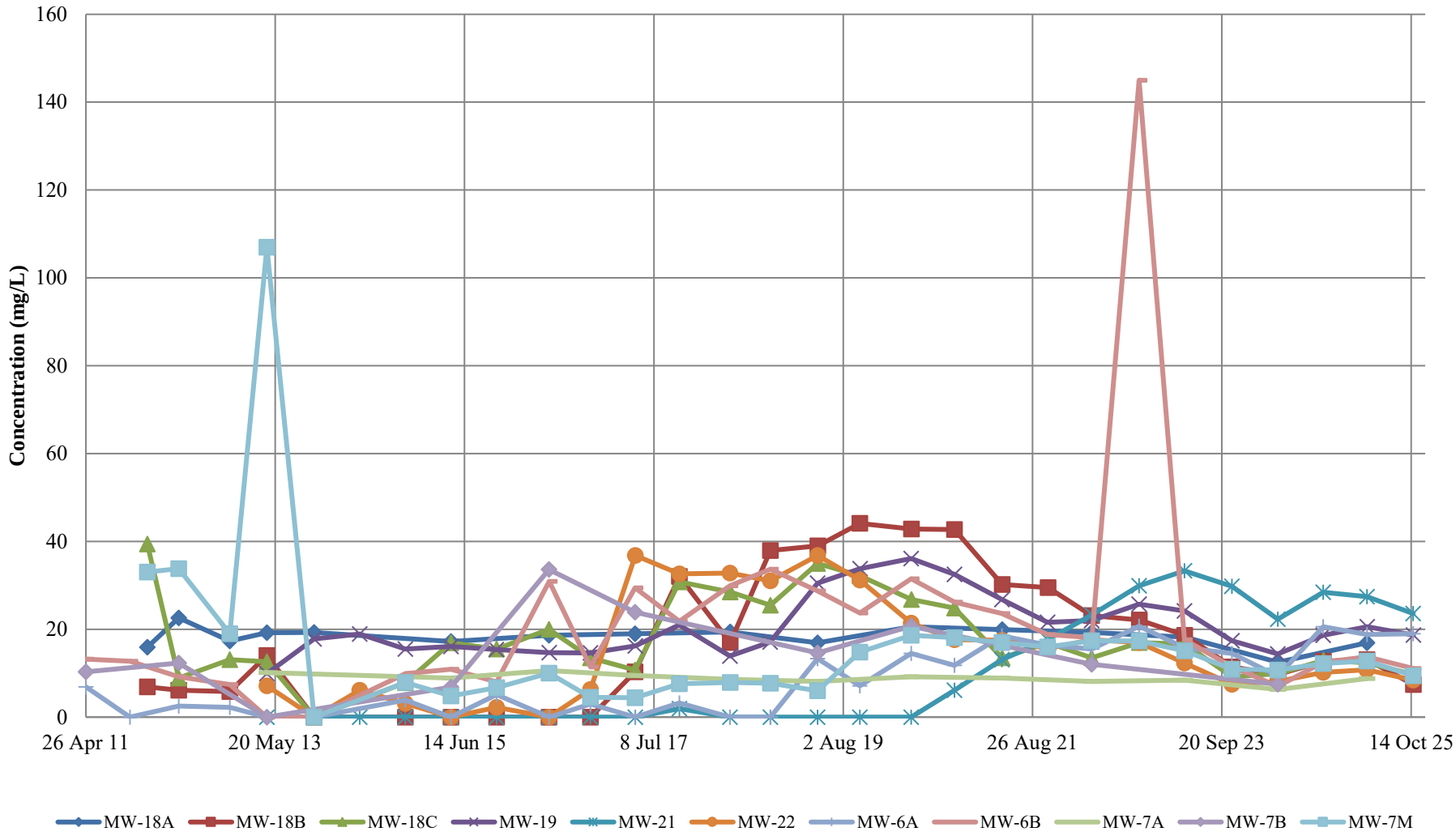

Sulfate Trends
Source Area Transect Wells
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 41

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EDat Databases\Cortese\Outputs\Charts\[HistoricalTrends_WellChem_SourceArea.xls]Data_Sulfate



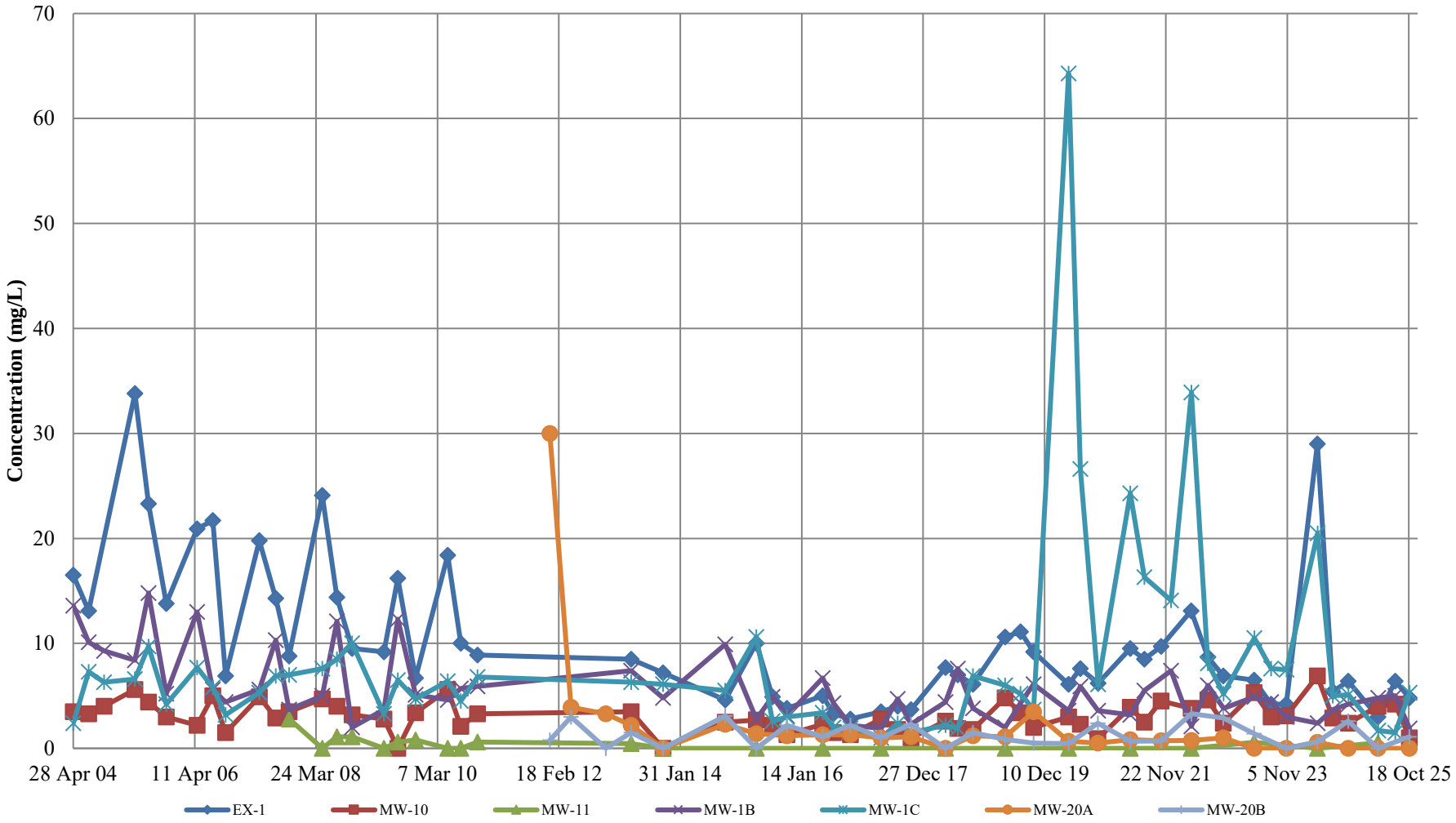

Sulfate Trends
Downgradient Wells
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Figure 42

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[HistoricalTrends_WellChem_DGWells.xls]Data_Alkalinity



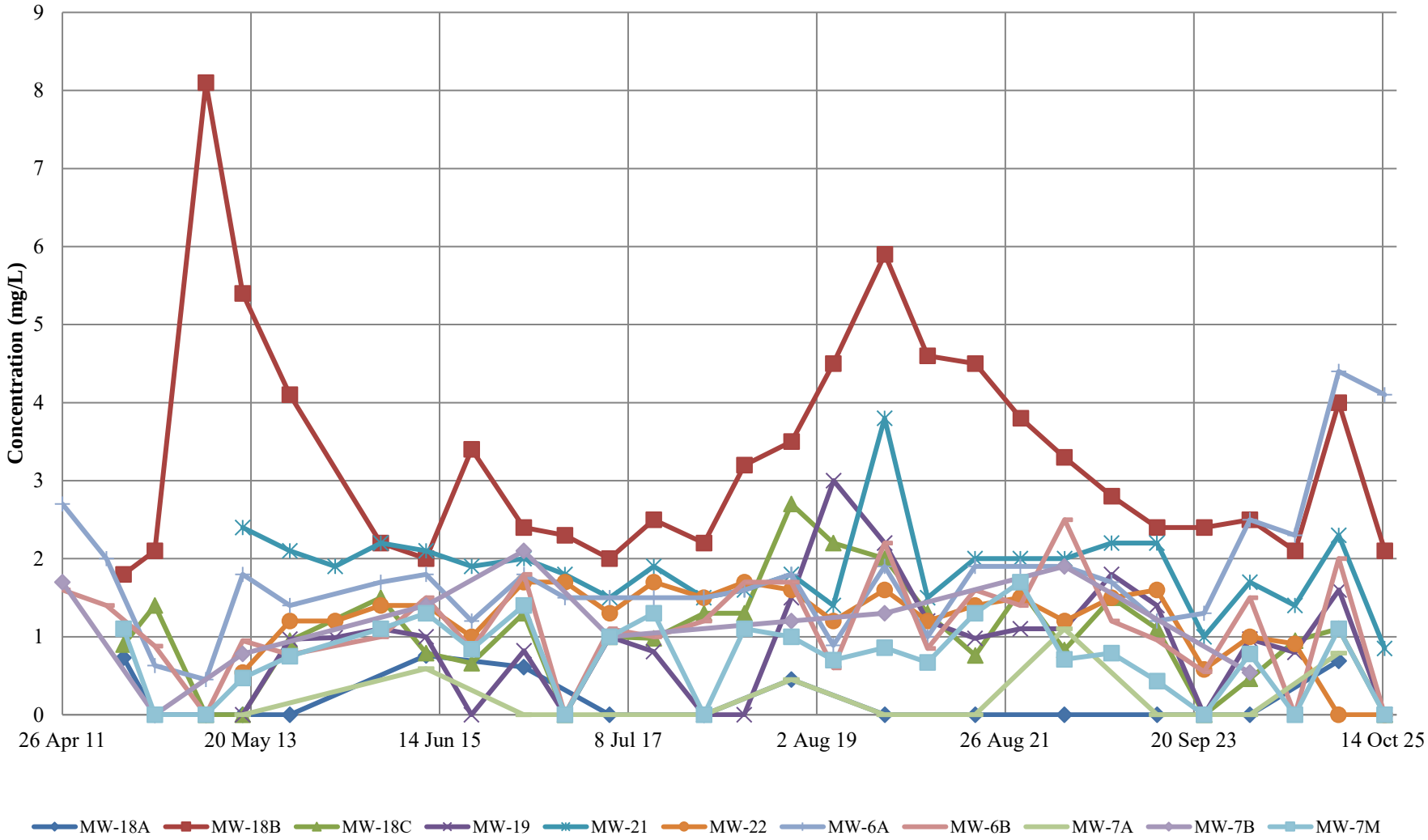

Total Organic Carbon Trends
Source Area Transect Wells
Cortese Landfill, Narrowsburg, New York

Geosyntec consultants

Columbia, Maryland | April 2026

Figure 43

\\columbia-01\data\Databases_EDat Databases\Cortese\Outputs\Charts\[HistoricalTrends_WellChem_SourceArea.xls]Data_Sulfate




Total Organic Carbon Trends
Downgradient Wells
Cortese Landfill, Narrowburg, New York

Geosyntec consultants

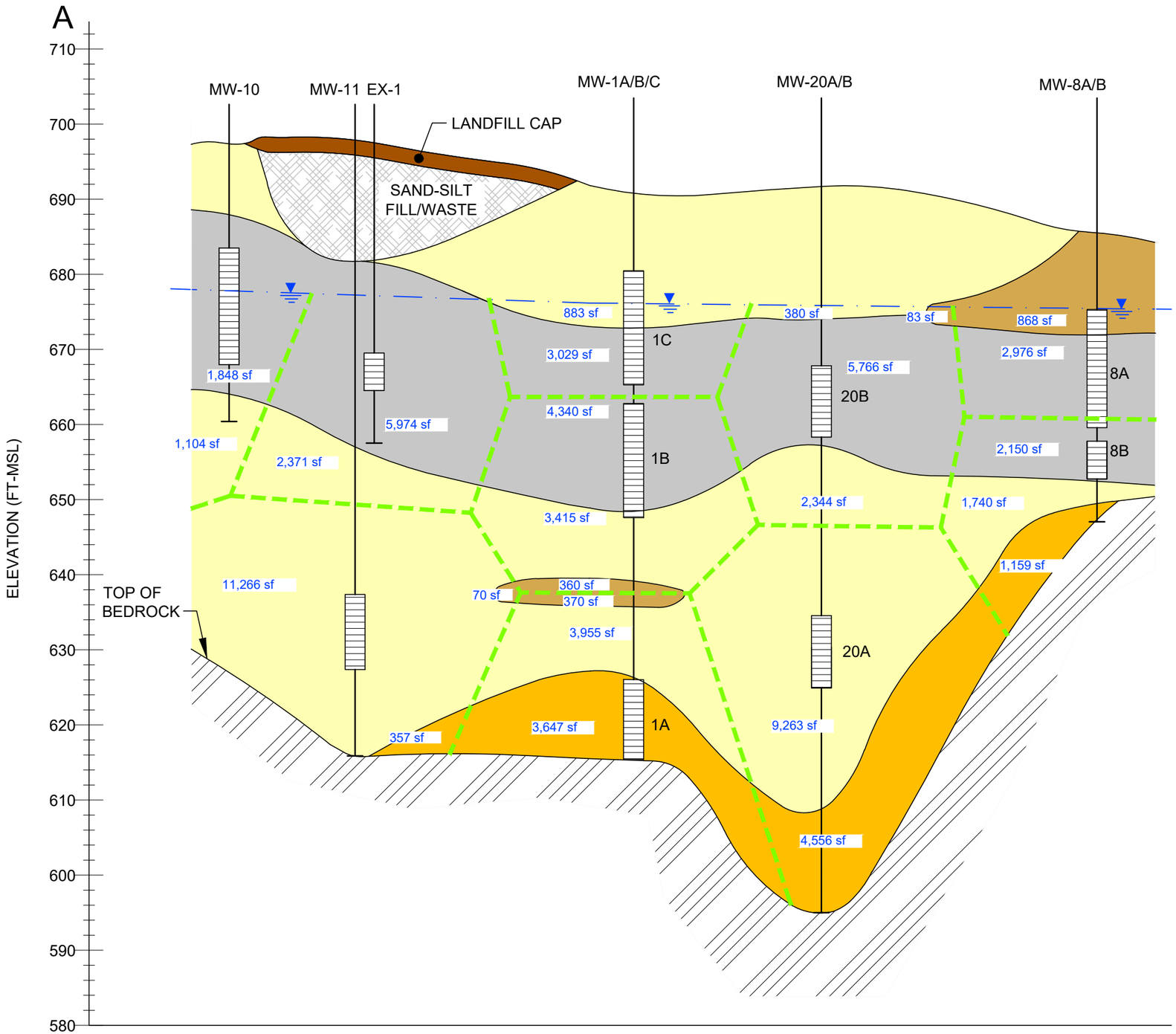
Figure 44

Columbia, Maryland | April 2026

\\columbia-01\data\Databases_EsDat Databases\Cortese\Outputs\Charts\[Historicaltrends_WellChem_DGWells.xls]Data_Alkalinity

# APPENDIX C

# MASS DISCHARGE SUPPLEMENTAL INFORMATION




## LEGEND

- WELL/SCREEN LOCATION
- WATER TABLE
- GRAVEL AND SAND
- SILTY SAND/SANDY SILT
- CLAYEY SILT
- SAND WITH SOME GRAVEL
- sf — SQUARE FT

NOTE:

1. LOCATION OF CROSS SECTION SHOWN ON FIGURE 3-1.
2. WELL CLUSTERS ARE SEPARATE COMPLETIONS IN SEPARATE BOREHOLES BUT SHOWN ON ONE WELL SYMBOL FOR CLARITY.
3. GEOLOGIC AND EXISTING WELL CONSTRUCTION DATA FROM GOLDER AND GEOSYNTEC (VARIOUS).
4. CONDITIONS MAY VARY FROM THAT SHOWN BETWEEN EXISTING BORINGS.

150 75 0 150
HORIZONTAL SCALE: 1" = 150'

15 7.5 0 15
VERTICAL SCALE: 1" = 15'

# CROSS SECTION A-A' OF SOURCE AREAS TRANSECT

CORTESE LANDFILL SITE
NARROWSBURG, NEW YORK

Geosyntec consultants
COLUMBIA, MARYLAND

| | |
|---|---|
| DATE: | APRIL 2026 |
| PROJECT NO. | MR0562T |
| DOCUMENT NO. | MD26007 |
| FILE NO. | MR0562T1 |
| FIGURE NO. | 1 |

P:\CADD\0562-CORTESE\05621800\MR0562N1

**APPENDIX C**
**SUMMARY OF HISTORICAL OU4 TRANSECT TOTAL VOC MASS DISCHARGE**

**Cortese Landfill**
**Narrowsburg, New York**

| Monitoring Well | Baseline Mass Discharge [1] | Apr-14 | | Oct-14 | | Apr-15 | | Jul-15 | | Oct-15 | | May-16 | | Jul-16 | | Oct-16 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline |
| **Units** | **µg/sec** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** |
| MW-10 | 7.7E+00 | 2.5E+01 | 227% | 5.6E-01 | -93% | 1.3E+01 | 62% | 3.0E-01 | -96% | 2.5E-01 | -97% | 4.9E-01 | -94% | 7.3E-01 | -91% | 1.2E-01 | -99% |
| MW-11 | 3.2E-01 | 0.0E+00 | -100% | *0.0E+00* | *-100%* | 0.0E+00 | -100% | *0.0E+00* | -100% | *0.0E+00* | -100% | 0.0E+00 | -100% | *0.0E+00* | -100% | *0.0E+00* | -100% |
| EX-1 | 3.2E+03 | 2.4E+03 | -25% | 4.3E+02 | -87% | 1.4E+03 | -55% | 9.5E+01 | -97% | 5.4E+01 | -98% | 1.4E+03 | -58% | 9.1E+01 | -97% | 3.0E+01 | -99% |
| MW-1A | 0.0E+00 | *0.0E+00* | *0%* | *0.0E+00* | *0%* | 0.0E+00 | 0% | *0.0E+00* | 0% | *0.0E+00* | 0% | 0.0E+00 | 0% | *0.0E+00* | 0% | *0.0E+00* | 0% |
| MW-1B | 9.9E+02 | 2.2E+02 | -78% | 4.6E+02 | -53% | 3.6E+01 | -96% | 4.6E+01 | -95% | 2.6E+01 | -97% | 3.3E+01 | -97% | 2.3E+01 | -98% | 8.6E+00 | -99% |
| MW-1C | 3.8E+01 | 3.0E+01 | -21% | 4.6E+00 | -88% | 5.3E+00 | -86% | 1.2E+00 | -97% | 9.2E-01 | -98% | 2.0E-01 | -99% | 4.8E-01 | -99% | 1.7E+00 | -95% |
| MW-20A | 1.2E+00 | 9.2E-01 | -21% | 1.1E+00 | -7% | 9.3E-01 | -19% | *9.3E-01* | *-19%* | 8.7E-01 | -25% | 8.7E-01 | -25% | *8.7E-01* | -25% | 9.2E-01 | -21% |
| MW-20B | 1.3E+02 | 6.1E+00 | -95% | 1.7E+02 | 34% | 7.9E+00 | -94% | *7.9E+00* | *-94%* | 1.8E+01 | -86% | 2.2E+00 | -98% | *2.2E+00* | *-98%* | 1.4E+01 | -89% |
| MW-8A | 0.0E+00 | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | 0% | *0.0E+00* | 0% | *0.0E+00* | *0%* | *0.0E+00* | 0% | *0.0E+00* | 0% |
| MW-8B | 0.0E+00 | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | 0% | *0.0E+00* | 0% | *0.0E+00* | *0%* | *0.0E+00* | 0% | *0.0E+00* | 0% |
| Total for Source Area Transect | 4.4E+03 | 2.7E+03 | -39% | 1.1E+03 | -76% | 1.5E+03 | -65% | 1.5E+02 | -97% | 1.0E+02 | -98% | 1.4E+03 | -68% | 1.2E+02 | -97% | 5.6E+01 | -99% |

| Monitoring Well | Baseline Mass Discharge [1] | Apr-17 | | Jul-17 | | Oct-17 | | May-18 | | Jul-18 | | Oct-18 | | Apr-19 | | Jul-19 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline |
| **Units** | **µg/sec** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** |
| MW-10 | 7.7E+00 | 3.2E+00 | -58% | 1.0E+00 | -87% | 1.2E-01 | -98% | 1.8E+00 | -76% | 5.5E-01 | -93% | 4.5E-01 | -94% | 6.7E+00 | -13% | 5.5E-01 | -93% |
| MW-11 | 3.2E-01 | 0.0E+00 | -100% | *0.0E+00* | *-100%* | *0.0E+00* | *-100%* | 0.0E+00 | -100% | *0.0E+00* | *-100%* | *0.0E+00* | *-100%* | 0.0E+00 | -100% | *0.0E+00* | *-100%* |
| EX-1 | 3.2E+03 | 3.2E+02 | -90% | 9.5E+00 | -100% | 1.9E+01 | -99% | 1.6E+02 | -95% | 1.1E+02 | -97% | 1.1E+02 | -96% | 1.8E+02 | -94% | 4.0E+02 | -88% |
| MW-1A | 0.0E+00 | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | 2.7E-02 | 0% | *2.7E-02* | *0%* | *2.7E-02* | *0%* | 0.0E+00 | 0% | *0.0E+00* | *0%* |
| MW-1B | 9.9E+02 | 4.6E+00 | -100% | 1.4E+01 | -99% | 5.3E+00 | -99% | 5.0E+00 | -99% | 3.6E+01 | -96% | 9.6E+00 | -99% | 1.8E+00 | -100% | 2.2E+01 | -98% |
| MW-1C | 3.8E+01 | 7.6E-01 | -98% | 1.5E+00 | -96% | 0.0E+00 | -100% | 0.0E+00 | -100% | 1.5E+00 | -96% | 0.0E+00 | -100% | 0.0E+00 | -100% | 0.0E+00 | -100% |
| MW-20A | 1.2E+00 | 8.4E-01 | -27% | *8.4E-01* | *-27%* | 8.7E-01 | -25% | 7.0E-01 | -40% | *7.0E-01* | *-40%* | 7.6E-01 | -34% | 6.6E-01 | -42% | *6.6E-01* | *-42%* |
| MW-20B | 1.3E+02 | 1.1E+01 | -91% | *1.1E+01* | *-91%* | 5.7E+00 | -96% | 5.3E+00 | -96% | *5.3E+00* | *-96%* | 2.4E+00 | -98% | 0.0E+00 | -100% | *0.0E+00* | *-100%* |
| MW-8A | 0.0E+00 | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | 0% | *0.0E+00* | 0% | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* |
| MW-8B | 0.0E+00 | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | 0% | *0.0E+00* | 0% | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* |
| Total for Source Area Transect | 4.4E+03 | 3.4E+02 | -92% | 3.8E+01 | -99% | 3.1E+01 | -99% | 1.8E+02 | -96% | 1.5E+02 | -96% | 1.3E+02 | -97% | 1.9E+02 | -96% | 4.2E+02 | -90% |

| Monitoring Well | Baseline Mass Discharge [1] | Oct-19 | | Apr-20 | | Jul-20 | | Oct-20 | | Apr-21 | | Jul-21 | | Oct-21 | | Apr-22 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline |
| **Units** | **µg/sec** | **µg/sec** | **%** | µg/sec | % | µg/sec | % | µg/sec | % | µg/sec | % | µg/sec | % | µg/sec | % | µg/sec | % |
| MW-10 | 7.7E+00 | 1.2E+00 | -85% | 2.4E+00 | -69% | 1.2E+00 | -85% | 2.2E-01 | -97% | 5.2E+00 | -33% | 5.9E-01 | -92% | 3.1E+00 | -60% | 1.7E+01 | 118% |
| MW-11 | 3.2E-01 | *0.0E+00* | *-100%* | *0.0E+00* | -100% | *0.0E+00* | *-100%* | *0.0E+00* | *-100%* | *0.0E+00* | -100% | *0.0E+00* | *-100%* | *0.0E+00* | *-100%* | *0.0E+00* | *-100%* |
| EX-1 | 3.2E+03 | 3.1E+02 | -90% | 9.5E+01 | -97% | 3.7E+02 | -88% | 2.5E+02 | -92% | 2.4E+02 | -92% | 1.8E+02 | -94% | 3.0E+02 | -91% | 5.4E+02 | -83% |
| MW-1A | 0.0E+00 | *0.0E+00* | *0%* | *0.0E+00* | 0% | *0.0E+00* | *0%* | *0.0E+00* | *0%* | 0.0E+00 | 0% | *0.0E+00* | *0%* | *0.0E+00* | *0%* | 0.0E+00 | 0% |
| MW-1B | 9.9E+02 | 5.3E+01 | -95% | 8.9E+00 | -99% | 4.6E+01 | -95% | 3.1E+01 | -97% | 9.9E+00 | -99% | 5.3E+01 | -95% | 3.6E+01 | -96% | 1.1E+01 | -99% |
| MW-1C | 3.8E+01 | 0.0E+00 | -100% | 1.2E+01 | -69% | 5.0E+01 | 33% | 1.4E+00 | -96% | 1.3E+01 | -65% | 1.0E+01 | -73% | 1.1E+01 | -71% | 1.6E+01 | -56% |
| MW-20A | 1.2E+00 | 9.5E-01 | -18% | 5.1E-01 | -56% | *5.1E-01* | -56% | 5.2E-01 | -55% | 5.5E-01 | -52% | 5.5E-01 | -52% | 4.4E-01 | -62% | 3.6E-01 | -68% |
| MW-20B | 1.3E+02 | 1.8E+01 | -86% | 3.0E+00 | -98% | *3.0E+00* | *-98%* | 2.2E+01 | -83% | 1.9E+01 | -85% | 1.9E+01 | -85% | 4.3E+01 | -66% | 2.8E+00 | -98% |
| MW-8A | 0.0E+00 | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* |
| MW-8B | 0.0E+00 | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* |
| Total for Source Area Transect | 4.4E+03 | 3.8E+02 | -91% | 1.2E+02 | -97% | 4.7E+02 | -89% | 3.0E+02 | -93% | 2.9E+02 | -93% | 2.6E+02 | -94% | 3.9E+02 | -91% | 5.9E+02 | -86% |

| Monitoring Well | Baseline Mass Discharge [1] | Jul-22 | | Oct-22 | | Apr-23 | | Aug-23 | | Oct-23 | | Apr-24 | | Jul-24 | | Oct-24 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline |
| **Units** | **µg/sec** | **µg/sec** | **%** | µg/sec | % | µg/sec | % | **µg/sec** | **%** | µg/sec | % | µg/sec | % | **µg/sec** | **%** | µg/sec | % |
| MW-10 | 7.7E+00 | 1.4E+00 | -82% | 7.2E-01 | -91% | 1.7E+00 | -78% | 1.2E+00 | -84% | 2.1E+00 | -73% | 9.6E+00 | 24% | 3.2E+00 | -58% | 2.1E+00 | -73% |
| MW-11 | 3.2E-01 | *0.0E+00* | *-100%* | *0.0E+00* | -100% | *0.0E+00* | -100% | *0.0E+00* | -100% | *0.0E+00* | -100% | *0.0E+00* | -100% | *0.0E+00* | -100% | *0.0E+00* | -100% |
| EX-1 | 3.2E+03 | 6.3E+02 | -80% | 2.4E+02 | -93% | 3.3E+02 | -90% | 1.3E+02 | -96% | 1.5E+02 | -95% | 5.4E+02 | -83% | 3.8E+02 | -88% | 3.8E+02 | -88% |
| MW-1A | 0.0E+00 | *0.0E+00* | *0%* | *0.0E+00* | *0%* | 0.0E+00 | 0% | *0.0E+00* | *0%* | *0.0E+00* | *0%* | 0.0E+00 | 0% | *0.0E+00* | 0% | *0.0E+00* | 0% |
| MW-1B | 9.9E+02 | 8.0E+01 | -92% | 3.3E+01 | -97% | 2.8E+01 | -97% | 7.0E+01 | -93% | 2.9E+01 | -97% | 2.9E+00 | -100% | 8.6E+01 | -91% | 6.0E+01 | -94% |
| MW-1C | 3.8E+01 | 3.7E+00 | -90% | 2.0E+00 | -95% | 4.6E+00 | -88% | 4.4E+00 | -88% | 2.7E+00 | -93% | 2.3E+01 | -39% | 2.7E+00 | -93% | 7.3E+00 | -81% |
| MW-20A | 1.2E+00 | *3.6E-01* | *-68%* | 3.6E-01 | -68% | 4.0E-01 | -66% | *4.0E-01* | *-66%* | 3.3E-01 | -71% | 3.6E-01 | -68% | *3.6E-01* | -68% | 3.2E-01 | -73% |
| MW-20B | 1.3E+02 | *2.8E+00* | *-98%* | 3.2E+01 | -75% | 2.3E+01 | -82% | *2.3E+01* | *-82%* | 1.1E+01 | -92% | 7.0E+00 | -95% | *7.0E+00* | -95% | 5.3E+01 | -59% |
| MW-8A | 0.0E+00 | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | 0% | *0.0E+00* | 0% | *0.0E+00* | 0% | *0.0E+00* | 0% |
| MW-8B | 0.0E+00 | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | 0% | *0.0E+00* | 0% | *0.0E+00* | 0% | *0.0E+00* | 0% |
| Total for Source Area Transect | 4.4E+03 | 7.2E+02 | -83% | 3.0E+02 | -93% | 3.9E+02 | -91% | 2.3E+02 | -95% | 2.0E+02 | -95% | 5.9E+02 | -87% | 4.8E+02 | -89% | 5.0E+02 | -88% |

| Monitoring Well | Baseline Mass Discharge [1] | Apr-25 | | Jul-25 | | Oct-25 | |
|---|---|---|---|---|---|---|---|
| | | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline |
| **Units** | **µg/sec** | µg/sec | % | **µg/sec** | **%** | µg/sec | % |
| MW-10 | 7.7E+00 | 1.4E+00 | -82% | 1.8E+00 | -76% | 5.8E-01 | -93% |
| MW-11 | 3.2E-01 | *0.0E+00* | -100% | *0.0E+00* | -100% | *0.0E+00* | -100% |
| EX-1 | 3.2E+03 | 1.2E+02 | -96% | 4.2E+02 | -87% | 2.0E+02 | -94% |
| MW-1A | 0.0E+00 | 0.0E+00 | 0% | 0.0E+00 | 0% | 0.0E+00 | 0% |
| MW-1B | 9.9E+02 | 2.9E+01 | -97% | 7.6E+01 | -92% | 4.0E+01 | -96% |
| MW-1C | 3.8E+01 | 3.7E+00 | -90% | 3.2E+00 | -92% | 4.4E+00 | -88% |
| MW-20A | 1.2E+00 | 3.0E-01 | -74% | *3.0E-01* | -74% | 2.4E-01 | -79% |
| MW-20B | 1.3E+02 | 8.8E+00 | -93% | *8.8E+00* | -93% | 3.2E+01 | -75% |
| MW-8A | 0.0E+00 | *0.0E+00* | 0% | *0.0E+00* | 0% | *0.0E+00* | 0% |
| MW-8B | 0.0E+00 | *0.0E+00* | 0% | *0.0E+00* | 0% | *0.0E+00* | 0% |
| Total for Source Area Transect | 4.4E+03 | 1.6E+02 | -96% | 5.1E+02 | -88% | 2.8E+02 | -94% |

**Notes:**
[1] Baseline mass discharge presented in Operations, Maintenance, and Monitoring Plan, Revision 1 (July, 2014).
*Italics* - Indicates total VOC concentration from previous sampling event used to calculate mass dicharge and RPD.
RPD - relative precent difference calculated as (Δ mass discharge/baseline mass discharge).
% - percent
µg/sec - micrograms per second

**APPENDIX C**
**OU4 TRANSECT TOTAL VOC MASS DISCHARGE - APRIL 2025**

**Cortese Landfill**
**Narrowsburg, New York**

| Monitoring Well/Polygon | Total VOC Concentration ($C_j$) [1] | | Geologic Material | Hydraulic Conductivity ($K_j$) | Area ($A_j$) [2] | | Hydraulic Gradient ($i_j$) | Mass Discharge ($M_{dj}$) |
|---|---|---|---|---|---|---|---|---|
| Units | µg/l | µg/cm$^3$ * | - | cm/sec * | ft$^2$ | cm$^2$ * | cm/cm * | µg/sec |
| MW-10 | 10 | 0.01 | Sand and Gravel | 2.7E-02 | 1,848 | 1.7E+06 | 0.0030 | 1.4E+00 |
| | 10 | 0.01 | Silty Sand | 5.0E-04 | 1,104 | 1.0E+06 | 0.0030 | 1.5E-02 |
| MW-11 | 0 | 0 | Silty Sand | 5.0E-04 | 11,266 | 1.0E+07 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Clayey Silt | 1.0E-06 | 70 | 6.5E+04 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Sand w/ some Gravel | 2.3E-04 | 357 | 3.3E+05 | 0.0030 | 0.0E+00 |
| EX-1 | 260 | 0.26 | Sand and Gravel | 2.7E-02 | 5,974 | 5.5E+06 | 0.0030 | 1.2E+02 |
| | 260 | 0.26 | Silty Sand | 5.0E-04 | 2,371 | 2.2E+06 | 0.0030 | 8.6E-01 |
| MW-1A | 0 | 0 | Silty Sand | 5.0E-04 | 3,955 | 3.7E+06 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Clayey Silt | 1.0E-06 | 370 | 3.4E+05 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Sand w/ some Gravel | 2.3E-04 | 3,647 | 3.4E+06 | 0.0030 | 0.0E+00 |
| MW-1B | 89 | 0.089 | Sand and Gravel | 2.7E-02 | 4,340 | 4.0E+06 | 0.0030 | 2.9E+01 |
| | 89 | 0.089 | Silty Sand | 5.0E-04 | 3,415 | 3.2E+06 | 0.0030 | 4.2E-01 |
| | 89 | 0.089 | Clayey Silt | 1.0E-06 | 360 | 3.3E+05 | 0.0030 | 8.9E-05 |
| MW-1C | 16 | 0.016 | Sand and Gravel | 2.7E-02 | 3,029 | 2.8E+06 | 0.0030 | 3.6E+00 |
| | 16 | 0.016 | Silty Sand | 5.0E-04 | 883 | 8.2E+05 | 0.0030 | 2.0E-02 |
| MW-20A | 19 | 0.019 | Silty Sand | 5.0E-04 | 9,263 | 8.6E+06 | 0.0030 | 2.5E-01 |
| | 19 | 0.019 | Sand w/ some Gravel | 2.3E-04 | 4,556 | 4.2E+06 | 0.0030 | 5.5E-02 |
| MW-20B | 20 | 0.02 | Sand and Gravel | 2.7E-02 | 5,766 | 5.4E+06 | 0.0030 | 8.7E+00 |
| | 20 | 0.02 | Silty Sand | 5.0E-04 | 2,724 | 2.5E+06 | 0.0030 | 7.6E-02 |
| | 20 | 0.02 | Clayey Silt | 1.0E-06 | 83 | 7.7E+04 | 0.0030 | 4.6E-06 |
| MW-8A | 0 | 0 | Clayey Silt | 1.0E-06 | 868 | 8.1E+05 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Sand and Gravel | 2.7E-02 | 2,976 | 2.8E+06 | 0.0030 | 0.0E+00 |
| MW-8B | 0 | 0 | Sand and Gravel | 2.7E-02 | 2,150 | 2.0E+06 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Silty Sand | 5.0E-04 | 1,740 | 1.6E+06 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Sand w/ some Gravel | 2.3E-04 | 1,159 | 1.1E+06 | 0.0030 | 0.0E+00 |

| Total Mass Dicharge ($M_d$) |
|---|
| **1.6E+02 µg/sec** |
| **1.4E+01 mg/day** |

**Notes:**

[1] Micrograms per liter converted to micrograms per cubic centimeter by dividing by 1,000

[2] square feet converted to square centimeters by multiplying by 929

* The product of these columns in each row is $M_{dj}$

µg/l - micrograms per liter

µg/cm$^3$ - micrograms per cubic centimeter

cm/sec - centimeters per second

ft$^2$ - square feet

cm$^2$ - square centimeters

cm/cm - centimeters per centimeter

µg/sec - micrograms per second

mg/day - milligrams per day

**APPENDIX C**
**OU4 TRANSECT TOTAL VOC MASS DISCHARGE - JULY 2025**

**Cortese Landfill**
**Narrowsburg, New York**

| Monitoring Well/Polygon | Total VOC Concentration ($C_j$) [1] | | Geologic Material | Hydraulic Conductivity ($K_j$) | Area ($A_j$) [2] | | Hydraulic Gradient ($i_j$) | Mass Discharge ($M_{dj}$) |
|---|---|---|---|---|---|---|---|---|
| Units | µg/l | µg/cm$^3$ * | - | cm/sec * | ft$^2$ | cm$^2$ * | cm/cm * | µg/sec |
| MW-10 | 13 | 0.013 | Sand and Gravel | 2.7E-02 | 1,848 | 1.7E+06 | 0.0030 | 1.8E+00 |
| | 13 | 0.013 | Silty Sand | 5.0E-04 | 1,104 | 1.0E+06 | 0.0030 | 2.0E-02 |
| MW-11 | 0 | 0 | Silty Sand | 5.0E-04 | 11,266 | 1.0E+07 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Clayey Silt | 1.0E-06 | 70 | 6.5E+04 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Sand w/ some Gravel | 2.3E-04 | 357 | 3.3E+05 | 0.0030 | 0.0E+00 |
| EX-1 | 920 | 0.92 | Sand and Gravel | 2.7E-02 | 5,974 | 5.5E+06 | 0.0030 | 4.1E+02 |
| | 920 | 0.92 | Silty Sand | 5.0E-04 | 2,371 | 2.2E+06 | 0.0030 | 3.0E+00 |
| MW-1A | 0 | 0 | Silty Sand | 5.0E-04 | 3,955 | 3.7E+06 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Clayey Silt | 1.0E-06 | 370 | 3.4E+05 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Sand w/ some Gravel | 2.3E-04 | 3,647 | 3.4E+06 | 0.0030 | 0.0E+00 |
| MW-1B | 230 | 0.23 | Sand and Gravel | 2.7E-02 | 4,340 | 4.0E+06 | 0.0030 | 7.5E+01 |
| | 230 | 0.23 | Silty Sand | 5.0E-04 | 3,415 | 3.2E+06 | 0.0030 | 1.1E+00 |
| | 230 | 0.23 | Clayey Silt | 1.0E-06 | 360 | 3.3E+05 | 0.0030 | 2.3E-04 |
| MW-1C | 14 | 0.014 | Sand and Gravel | 2.7E-02 | 3,029 | 2.8E+06 | 0.0030 | 3.2E+00 |
| | 14 | 0.014 | Silty Sand | 5.0E-04 | 883 | 8.2E+05 | 0.0030 | 1.7E-02 |
| MW-20A | 19 | 0.019 | Silty Sand | 5.0E-04 | 9,263 | 8.6E+06 | 0.0030 | 2.5E-01 |
| | 19 | 0.019 | Sand w/ some Gravel | 2.3E-04 | 4,556 | 4.2E+06 | 0.0030 | 5.5E-02 |
| MW-20B | 20 | 0.02 | Sand and Gravel | 2.7E-02 | 5,766 | 5.4E+06 | 0.0030 | 8.7E+00 |
| | 20 | 0.02 | Silty Sand | 5.0E-04 | 2,724 | 2.5E+06 | 0.0030 | 7.6E-02 |
| | 20 | 0.02 | Clayey Silt | 1.0E-06 | 83 | 7.7E+04 | 0.0030 | 4.6E-06 |
| MW-8A | 0 | 0 | Clayey Silt | 1.0E-06 | 868 | 8.1E+05 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Sand and Gravel | 2.7E-02 | 2,976 | 2.8E+06 | 0.0030 | 0.0E+00 |
| MW-8B | 0 | 0 | Sand and Gravel | 2.7E-02 | 2,150 | 2.0E+06 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Silty Sand | 5.0E-04 | 1,740 | 1.6E+06 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Sand w/ some Gravel | 2.3E-04 | 1,159 | 1.1E+06 | 0.0030 | 0.0E+00 |

| Total Mass Dicharge ($M_d$) |
|---|
| **5.1E+02 µg/sec** |
| **4.4E+01 mg/day** |

**Notes:**

[1] Micrograms per liter converted to micrograms per cubic centimeter by dividing by 1,000

[2] square feet converted to square centimeters by multiplying by 929

* The product of these columns in each row is $M_{dj}$

µg/l - micrograms per liter

µg/cm$^3$ - micrograms per cubic centimeter

cm/sec - centimeters per second

ft$^2$ - square feet

cm$^2$ - square centimeters

cm/cm - centimeters per centimeter

µg/sec - micrograms per second

mg/day - milligrams per day

**APPENDIX C**
**OU4 TRANSECT TOTAL VOC MASS DISCHARGE - OCTOBER 2025**

**Cortese Landfill**
**Narrowsburg, New York**

| Monitoring Well/Polygon | Total VOC Concentration ($C_j$) [1] | | Geologic Material | Hydraulic Conductivity ($K_j$) | Area ($A_j$) [2] | | Hydraulic Gradient ($i_j$) | Mass Discharge ($M_{dj}$) |
|---|---|---|---|---|---|---|---|---|
| Units | µg/l | µg/cm$^3$ * | - | cm/sec * | ft$^2$ | cm$^2$ * | cm/cm * | µg/sec |
| MW-10 | 4.1 | 0.0041 | Sand and Gravel | 2.7E-02 | 1,848 | 1.7E+06 | 0.0030 | 5.7E-01 |
| | 4.1 | 0.0041 | Silty Sand | 5.0E-04 | 1,104 | 1.0E+06 | 0.0030 | 6.3E-03 |
| MW-11 | 0 | 0 | Silty Sand | 5.0E-04 | 11,266 | 1.0E+07 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Clayey Silt | 1.0E-06 | 70 | 6.5E+04 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Sand w/ some Gravel | 2.3E-04 | 357 | 3.3E+05 | 0.0030 | 0.0E+00 |
| EX-1 | 440 | 0.44 | Sand and Gravel | 2.7E-02 | 5,974 | 5.5E+06 | 0.0030 | 2.0E+02 |
| | 440 | 0.44 | Silty Sand | 5.0E-04 | 2,371 | 2.2E+06 | 0.0030 | 1.5E+00 |
| MW-1A | 0 | 0 | Silty Sand | 5.0E-04 | 3,955 | 3.7E+06 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Clayey Silt | 1.0E-06 | 370 | 3.4E+05 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Sand w/ some Gravel | 2.3E-04 | 3,647 | 3.4E+06 | 0.0030 | 0.0E+00 |
| MW-1B | 120 | 0.12 | Sand and Gravel | 2.7E-02 | 4,340 | 4.0E+06 | 0.0030 | 3.9E+01 |
| | 120 | 0.12 | Silty Sand | 5.0E-04 | 3,415 | 3.2E+06 | 0.0030 | 5.7E-01 |
| | 120 | 0.12 | Clayey Silt | 1.0E-06 | 360 | 3.3E+05 | 0.0030 | 1.2E-04 |
| MW-1C | 19 | 0.019 | Sand and Gravel | 2.7E-02 | 3,029 | 2.8E+06 | 0.0030 | 4.3E+00 |
| | 19 | 0.019 | Silty Sand | 5.0E-04 | 883 | 8.2E+05 | 0.0030 | 2.3E-02 |
| MW-20A | 15 | 0.015 | Silty Sand | 5.0E-04 | 9,263 | 8.6E+06 | 0.0030 | 1.9E-01 |
| | 15 | 0.015 | Sand w/ some Gravel | 2.3E-04 | 4,556 | 4.2E+06 | 0.0030 | 4.4E-02 |
| MW-20B | 72 | 0.072 | Sand and Gravel | 2.7E-02 | 5,766 | 5.4E+06 | 0.0030 | 3.1E+01 |
| | 72 | 0.072 | Silty Sand | 5.0E-04 | 2,724 | 2.5E+06 | 0.0030 | 2.7E-01 |
| | 72 | 0.072 | Clayey Silt | 1.0E-06 | 83 | 7.7E+04 | 0.0030 | 1.7E-05 |
| MW-8A | 0 | 0 | Clayey Silt | 1.0E-06 | 868 | 8.1E+05 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Sand and Gravel | 2.7E-02 | 2,976 | 2.8E+06 | 0.0030 | 0.0E+00 |
| MW-8B | 0 | 0 | Sand and Gravel | 2.7E-02 | 2,150 | 2.0E+06 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Silty Sand | 5.0E-04 | 1,740 | 1.6E+06 | 0.0030 | 0.0E+00 |
| | 0 | 0 | Sand w/ some Gravel | 2.3E-04 | 1,159 | 1.1E+06 | 0.0030 | 0.0E+00 |

| Total Mass Dicharge ($M_d$) |
|---|
| **2.8E+02 µg/sec** |
| **2.4E+01 mg/day** |

**Notes:**

[1] Micrograms per liter converted to micrograms per cubic centimeter by dividing by 1,000

[2] square feet converted to square centimeters by multiplying by 929

* The product of these columns in each row is $M_{dj}$

µg/l - micrograms per liter

µg/cm$^3$ - micrograms per cubic centimeter

cm/sec - centimeters per second

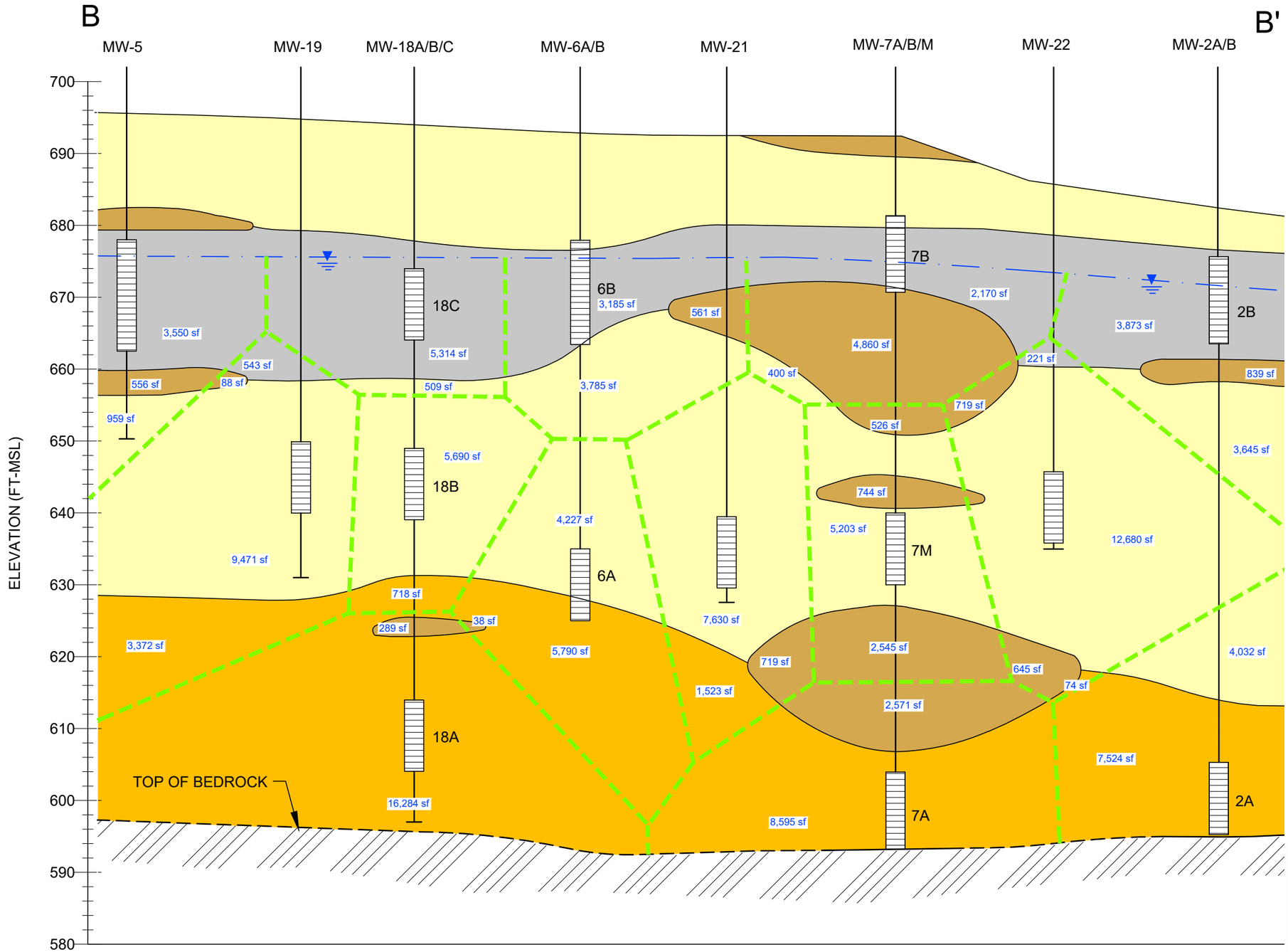
ft$^2$ - square feet

cm$^2$ - square centimeters

cm/cm - centimeters per centimeter

µg/sec - micrograms per second

mg/day - milligrams per day




## LEGEND

- WELL/SCREEN LOCATION
- WATER TABLE
- GRAVEL AND SAND
- SILTY SAND/SANDY SILT
- CLAYEY SILT
- SAND WITH SOME GRAVEL
- sf — SQUARE FEET

NOTES:

1. LOCATION OF CROSS SECTION SHOWN ON FIGURE 3-1.
2. WELL CLUSTERS ARE SEPARATE COMPLETIONS IN SEPARATE BOREHOLES BUT SHOWN ON ONE WELL SYMBOL FOR CLARITY.
3. GEOLOGIC AND EXISTING WELL CONSTRUCTION DATA FROM GOLDER AND GEOSYNTEC (VARIOUS).
4. CONDITIONS MAY VARY FROM THAT SHOWN BETWEEN EXISTING BORINGS.
5. MONITORING WELL PAIR MW-6A/6B ARE PROJECTED HORIZONTALLY TO CROSS-SECTION B-B'. THE SCREEN FOR MW-6A IS ALSO PROJECTED TO A SHALLOWER DEPTH IN ORDER TO MATCH THE DIVING PLUME CONCEPTUAL SITE MODEL.

150 75 0 150
HORIZONTAL SCALE: 1" = 150'

15 7.5 0 15
VERTICAL SCALE: 1" = 15'

# CROSS SECTION B-B' OF DOWNGRADIENT TRANSECT

CORTESE LANDFILL SITE
NARROWSBURG, NEW YORK

Geosyntec consultants
COLUMBIA, MARYLAND

| | |
|---|---|
| DATE: | APRIL 2026 |
| PROJECT NO. | MR0562T |
| DOCUMENT NO. | MD26007 |
| FILE NO. | MR0562T2 |
| FIGURE NO. | 2 |

P:\CADD\0562-CORTESE\05621800\MR0562N2

**APPENDIX C**
**SUMMARY OF HISTORICAL OU3 TRANSECT TOTAL VOC MASS DISCHARGE**

**Cortese Landfill**
**Narrowsburg, New York**

| Monitoring Well | Baseline Mass Discharge [1] | Apr-14 | | Oct-14 | | Apr-15 | | Oct-15 | | May-16 | | Oct-16 | | Apr-17 | | Oct-17 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline |
| **Units** | **µg/sec** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** |
| MW-5 | 0.0E+00 | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | 0.0E+00 | 0% | *0.0E+00* | *0%* | 0.0E+00 | 0% | *0.0E+00* | *0%* |
| MW-19 | 2.3E+01 | 2.6E+01 | 14% | 3.3E+01 | 43% | 1.2E+01 | -49% | 9.4E+00 | -59% | 4.9E+00 | -79% | 3.1E+00 | -86% | 3.6E+00 | -84% | 2.1E+00 | -91% |
| MW-18A | 1.1E-01 | 0.0E+00 | -100% | *0.0E+00* | *-100%* | 0.0E+00 | -100% | *0.0E+00* | *-100%* | *1.9E+00* | *1533%* | *1.9E+00* | *1533%* | *0.0E+00* | -100% | *0.0E+00* | -100% |
| MW-18B | 6.1E+01 | 7.7E+00 | -87% | 4.0E+00 | -93% | 3.5E+00 | -94% | 1.5E+01 | -76% | 3.5E+00 | -94% | 1.8E+00 | -97% | 9.2E-01 | -98% | 8.9E-01 | -99% |
| MW-18C | 5.5E+01 | 3.6E+00 | -94% | 6.7E+01 | 22% | 6.6E+00 | -88% | 7.8E+00 | -86% | 2.0E+01 | -64% | 4.6E+00 | -92% | 7.8E-01 | -99% | 6.0E+00 | -89% |
| MW-6A | 7.6E+01 | 5.9E+01 | -22% | 5.5E+01 | -28% | 4.4E+01 | -42% | 4.1E+01 | -46% | 8.3E+01 | 10% | 4.7E+01 | -39% | 3.0E+01 | -61% | 4.4E+01 | -42% |
| MW-6B | 3.1E+01 | 1.6E+01 | -48% | 5.6E+00 | -82% | 1.4E+01 | -55% | 2.8E+00 | -91% | 1.4E+01 | -56% | 1.9E+00 | -94% | 7.3E+00 | -77% | 1.4E+00 | -95% |
| MW-21 | 1.0E+01 | 8.3E+00 | -16% | 8.8E+00 | -12% | 7.9E+00 | -21% | 7.4E+00 | -26% | 7.4E+00 | -26% | 6.9E+00 | -30% | 6.9E+00 | -30% | 7.4E+00 | -26% |
| MW-7A | 6.2E-01 | 9.1E-02 | -85% | *9.1E-02* | -85% | 1.1E-01 | -83% | *1.1E-01* | *-83%* | *1.5E-01* | *-76%* | *1.5E-01* | *-76%* | *2.0E-01* | -68% | *2.0E-01* | -68% |
| MW-7B | 1.2E+01 | 1.5E+01 | 30% | *1.5E+01* | *30%* | 1.7E+01 | 45% | *1.7E+01* | *45%* | *1.0E+01* | *-10%* | *1.0E+01* | *-10%* | *5.5E+00* | -53% | *5.5E+00* | -53% |
| MW-7M | 3.8E-01 | 2.6E-01 | -31% | 2.7E-01 | -29% | 2.5E-01 | -33% | 2.3E-01 | -40% | 2.1E-01 | -44% | 2.1E-01 | -44% | 2.6E-01 | -31% | 2.8E-01 | -27% |
| MW-22 | 2.1E+00 | 2.5E+00 | 17% | 2.7E+00 | 29% | 4.0E+00 | 89% | 3.4E+00 | 59% | 4.1E+00 | 91% | 2.6E+00 | 22% | 2.0E+00 | -6% | 1.4E+00 | -33% |
| MW-2A | 0.0E+00 | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | 0% | *0.0E+00* | *0%* |
| MW-2B | 1.1E+01 | *1.1E+01* | 0% | *1.1E+01* | *0%* | *1.1E+01* | *0%* | *1.1E+01* | *0%* | *1.1E+01* | *0%* | *1.1E+01* | *0%* | *1.1E+01* | 0% | *1.1E+01* | 0% |
| Total for Downgradient Transect | 2.8E+02 | 1.5E+02 | -47% | 2.0E+02 | -28% | 1.2E+02 | -57% | 1.1E+02 | -59% | 1.6E+02 | -43% | 9.1E+01 | -68% | 6.8E+01 | -76% | 8.0E+01 | -72% |

| Monitoring Well | Baseline Mass Discharge [1] | May-18 | | Oct-18 | | Apr-19 | | Oct-19 | | Apr-20 | | Oct-20 | | Apr-21 | | Oct-21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline |
| **Units** | **µg/sec** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | **µg/sec** | **%** | µg/sec | % | µg/sec | % | µg/sec | % | µg/sec | % |
| MW-5 | 0.0E+00 | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* |
| MW-19 | 2.3E+01 | 1.1E+00 | -95% | 2.1E+00 | -91% | 5.4E+00 | -76% | 5.4E+00 | -76% | 5.8E+00 | -75% | 4.3E+00 | -81% | 4.0E+00 | -83% | 4.1E+00 | -82% |
| MW-18A | 1.1E-01 | 0.0E+00 | -100% | *0.0E+00* | *-100%* | 0.0E+00 | -100% | *0.0E+00* | *-100%* | 0.0E+00 | -100% | *0.0E+00* | *-100%* | 0.0E+00 | -100% | *0.0E+00* | *-100%* |
| MW-18B | 6.1E+01 | 7.9E-01 | -99% | 7.2E-01 | -99% | 1.1E+00 | -98% | 8.7E-01 | -99% | 1.1E+00 | -98% | 9.6E-01 | -98% | 1.5E+00 | -98% | 2.2E+00 | -96% |
| MW-18C | 5.5E+01 | 1.6E+01 | -71% | 3.0E+00 | -95% | 1.6E+01 | -71% | 2.2E+01 | -60% | 2.7E+01 | -51% | 1.9E+01 | -65% | 4.5E+00 | -92% | 2.3E+01 | -58% |
| MW-6A | 7.6E+01 | 4.2E+01 | -44% | 5.2E+01 | -31% | 3.1E+01 | -59% | 5.4E+01 | -29% | 3.5E+01 | -54% | 6.5E+01 | -14% | 3.3E+01 | -57% | 2.4E+01 | -68% |
| MW-6B | 3.1E+01 | 3.1E+00 | -90% | 4.7E+00 | -85% | 1.1E+00 | -96% | 7.8E-01 | -98% | 7.3E+00 | -77% | 2.0E+00 | -94% | 1.2E+01 | -62% | 8.2E+00 | -74% |
| MW-21 | 1.0E+01 | 6.0E+00 | -40% | 6.5E+00 | -35% | 6.5E+00 | -35% | 6.0E+00 | -40% | 6.0E+00 | -40% | 5.6E+00 | -44% | 6.0E+00 | -40% | 5.1E+00 | -49% |
| MW-7A | 6.2E-01 | 8.5E-01 | 35% | *8.5E-01* | *35%* | 8.3E-02 | -87% | *8.3E-02* | *-87%* | 0.0E+00 | -100% | *0.0E+00* | *-100%* | 0.0E+00 | -100% | *0.0E+00* | *-100%* |
| MW-7B | *1.2E+01* | *5.5E+00* | *-53%* | *5.5E+00* | *-53%* | *6.4E-01* | *-95%* | *6.4E-01* | *-95%* | *2.9E+00* | *-75%* | *2.9E+00* | *-75%* | *2.9E+00* | *-75%* | *2.9E+00* | *-75%* |
| MW-7M | 3.8E-01 | 3.0E-01 | -21% | 2.3E-01 | -38% | 2.4E-01 | -37% | 2.3E-01 | -38% | 2.0E-01 | -46% | 1.7E-01 | -56% | 1.8E-01 | -52% | 1.5E-01 | -62% |
| MW-22 | 2.1E+00 | 1.1E+00 | -47% | 1.0E+00 | -52% | 7.3E-01 | -66% | 5.4E-01 | -75% | 3.9E-01 | -82% | 3.8E-01 | -82% | 6.9E-01 | -68% | 8.3E-01 | -61% |
| MW-2A | *0.0E+00* | *0.0E+00* | *0%* | *0.0E+00* | 0% | *0.0E+00* | *0%* | *0.0E+00* | 0% | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* |
| MW-2B | *1.1E+01* | *1.1E+01* | *0%* | *1.1E+01* | 0% | *1.1E+01* | *0%* | *1.1E+01* | 0% | *1.1E+01* | *0%* | *1.1E+01* | *0%* | *1.1E+01* | *0%* | *1.1E+01* | *0%* |
| Total for Downgradient Transect | 2.8E+02 | 8.8E+01 | -69% | 8.8E+01 | -69% | 7.4E+01 | -74% | 1.0E+02 | -64% | 9.7E+01 | -66% | 1.1E+02 | -60% | 7.5E+01 | -73% | 8.1E+01 | -71% |

| Monitoring Well | Baseline Mass Discharge [1] | Apr-22 | | Oct-22 | | Apr-23 | | Oct-23 | | Apr-24 | | Oct-24 | | Apr-25 | | Oct-25 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline | Mass Discharge | RPD From Baseline |
| **Units** | **µg/sec** | µg/sec | % | µg/sec | % | µg/sec | % | µg/sec | % | µg/sec | % | µg/sec | % | µg/sec | % | µg/sec | % |
| MW-5 | 0.0E+00 | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* |
| MW-19 | 2.3E+01 | 4.3E+00 | -81% | 6.6E+00 | -71% | 3.5E+00 | -85% | 3.8E+00 | -84% | 5.8E+00 | -75% | 7.4E+00 | -68% | 5.8E+00 | -75% | 3.1E+00 | -86% |
| MW-18A | 1.1E-01 | 0.0E+00 | -100% | *0.0E+00* | *-100%* | 0.0E+00 | -100% | *0.0E+00* | *-100%* | 0.0E+00 | -100% | *0.0E+00* | *-100%* | 0.0E+00 | -100% | *0.0E+00* | *-100%* |
| MW-18B | 6.1E+01 | 1.4E+00 | -98% | 1.5E+00 | -98% | 2.2E+00 | -96% | 2.7E+00 | -96% | 2.7E+00 | -96% | 2.7E+00 | -96% | 2.4E+00 | -96% | 3.5E+00 | -94% |
| MW-18C | 5.5E+01 | 8.5E+00 | -84% | 1.8E+01 | -68% | 3.8E+01 | -30% | 1.1E+01 | -79% | 8.5E-01 | -98% | 3.0E+01 | -45% | 9.3E+00 | -83% | 1.7E+01 | -69% |
| MW-6A | 7.6E+01 | 2.4E+01 | -68% | 3.7E+01 | -52% | 4.7E+01 | -39% | 2.1E+01 | -72% | 1.2E+01 | -84% | 4.0E+01 | -48% | 2.5E+01 | -67% | 2.7E+01 | -65% |
| MW-6B | 3.1E+01 | 1.4E+01 | -55% | 2.0E+00 | -94% | 1.1E+01 | -66% | 9.1E+00 | -71% | 2.7E+00 | -92% | 4.7E-01 | -98% | 6.0E+00 | -81% | 9.9E-01 | -97% |
| MW-21 | 1.0E+01 | 3.9E+00 | -60% | 2.9E+00 | -71% | 2.9E+00 | -71% | 2.3E+00 | -77% | 2.5E+00 | -75% | 2.0E+00 | -80% | 2.1E+00 | -79% | 1.6E+00 | -84% |
| MW-7A | 6.2E-01 | 0.0E+00 | -100% | *0.0E+00* | *-100%* | 0.0E+00 | -100% | *0.0E+00* | *-100%* | 0.0E+00 | -100% | *0.0E+00* | *-100%* | 0.0E+00 | -100% | *0.0E+00* | *-100%* |
| MW-7B | *1.2E+01* | *5.2E+00* | *-55%* | *5.2E+00* | *-55%* | *2.9E+00* | *-75%* | *2.9E+00* | *-75%* | *1.9E+00* | *-84%* | *1.9E+00* | *-84%* | *0.0E+00* | *-100%* | *0.0E+00* | *-100%* |
| MW-7M | 3.8E-01 | 1.2E-01 | -67% | 9.4E-02 | -75% | 1.0E-01 | -73% | 6.3E-02 | -83% | 8.7E-02 | -77% | 8.0E-02 | -79% | 8.0E-02 | -79% | 3.5E-02 | -91% |
| MW-22 | 2.1E+00 | 9.3E-01 | -56% | 7.3E-01 | -66% | 7.8E-01 | -63% | 9.3E-01 | -56% | 1.2E+00 | -45% | 9.8E-01 | -54% | 7.8E-01 | -63% | 7.3E-01 | -66% |
| MW-2A | *0.0E+00* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* | *0.0E+00* | *0%* |
| MW-2B | *1.1E+01* | *1.1E+01* | *0%* | *1.1E+01* | *0%* | *1.1E+01* | *0%* | *1.1E+01* | *0%* | *0.0E+00* | *-100%* | *0.0E+00* | *-100%* | *0.0E+00* | *-100%* | *0.0E+00* | *-100%* |
| Total for Downgradient Transect | 2.8E+02 | 7.4E+01 | -74% | 8.5E+01 | -70% | 1.2E+02 | -58% | 6.5E+01 | -77% | 3.0E+01 | -89% | 8.5E+01 | -70% | 5.2E+01 | -82% | 5.4E+01 | -81% |

**Notes:**
[1] Baseline mass discharge presented in Operations, Maintenance, and Monitoring Plan, Revision 1 (July, 2014).
*Italics* - Indicates total VOC concentration from previous sampling event used to calculate mass dicharge and RPD.
RPD - relative precent difference calculated as (Δ mass discharge/baseline mass discharge).
% - percent
µg/sec - micrograms per second

**APPENDIX C**
**OU3 TRANSECT TOTAL VOC MASS DISCHARGE - APRIL 2025**

**Cortese Landfill**
**Narrowsburg, New York**

| Monitoring Well/Polygon | Total VOC Concentration ($C_j$) [1] | | Geologic Material | Hydraulic Conductivity ($K_j$) | Area ($A_j$) [2] | | Hydraulic Gradient ($i_j$) | Mass Discharge ($M_{dj}$) |
|---|---|---|---|---|---|---|---|---|
| Units | µg/l | µg/cm$^3$ * | - | cm/sec * | ft$^2$ | cm$^2$ * | cm/cm * | µg/sec |
| MW-5 | 0 | 0 | Sand and Gravel | 4.8E-02 | 3,550 | 3.3E+06 | 0.003 | 0.0E+00 |
| | 0 | 0 | Silty Sand | 5.0E-04 | 959 | 8.9E+05 | 0.003 | 0.0E+00 |
| | 0 | 0 | Clayey Silt | 1.0E-06 | 556 | 5.2E+05 | 0.003 | 0.0E+00 |
| MW-19 | 35 | 0.035 | Sand and Gravel | 4.8E-02 | 543 | 5.0E+05 | 0.003 | 2.5E+00 |
| | 35 | 0.035 | Silty Sand | 5.0E-04 | 9,471 | 8.8E+06 | 0.003 | 4.6E-01 |
| | 35 | 0.035 | Clayey Silt | 1.0E-06 | 88 | 8.2E+04 | 0.003 | 8.6E-06 |
| | 35 | 0.035 | Sand w/ some Gravel | 8.4E-03 | 3,372 | 3.1E+06 | 0.003 | 2.8E+00 |
| MW-18A | 0 | 0 | Clayey Silt | 1.0E-06 | 289 | 2.7E+05 | 0.003 | 0.0E+00 |
| | 0 | 0 | Sand w/ some Gravel | 8.4E-03 | 16,284 | 1.5E+07 | 0.003 | 0.0E+00 |
| MW-18B | 97 | 0.097 | Silty Sand | 5.0E-04 | 5,690 | 5.3E+06 | 0.003 | 7.7E-01 |
| | 97 | 0.097 | Sand w/ some Gravel | 8.4E-03 | 718 | 6.7E+05 | 0.003 | 1.6E+00 |
| MW-18C | 13 | 0.013 | Sand and Gravel | 4.8E-02 | 5,314 | 4.9E+06 | 0.003 | 9.2E+00 |
| | 13 | 0.013 | Silty Sand | 5.0E-04 | 509 | 4.7E+05 | 0.003 | 9.2E-03 |
| MW-6A | 180 | 0.18 | Silty Sand | 5.0E-04 | 4,227 | 3.9E+06 | 0.003 | 1.1E+00 |
| | 180 | 0.18 | Sand w/ some Gravel | 8.4E-03 | 5,790 | 5.4E+06 | 0.003 | 2.4E+01 |
| | 180 | 0.18 | Clayey Silt | 1.0E-06 | 38 | 3.5E+04 | 0.003 | 1.9E-05 |
| MW-6B | 14 | 0.014 | Sand and Gravel | 4.8E-02 | 3,185 | 3.0E+06 | 0.003 | 6.0E+00 |
| | 14 | 0.014 | Silty Sand | 5.0E-04 | 3,785 | 3.5E+06 | 0.003 | 7.4E-02 |
| | 14 | 0.014 | Clayey Silt | 1.0E-06 | 561 | 5.2E+05 | 0.003 | 2.2E-05 |
| MW-21 | 46 | 0.046 | Silty Sand | 5.0E-04 | 7,630 | 7.1E+06 | 0.003 | 4.9E-01 |
| | 46 | 0.046 | Clayey Silt | 1.0E-06 | 719 | 6.7E+05 | 0.003 | 9.2E-05 |
| | 46 | 0.046 | Sand w/ some Gravel | 8.4E-03 | 1,523 | 1.4E+06 | 0.003 | 1.6E+00 |
| MW-7A | 0 | 0 | Clayey Silt | 1.0E-06 | 2,571 | 2.4E+06 | 0.003 | 0.0E+00 |
| | 0 | 0 | Sand w/ some Gravel | 8.4E-03 | 8,595 | 8.0E+06 | 0.003 | 0.0E+00 |
| MW-7B [3] | 0 | 0 | Sand and Gravel | 4.8E-02 | 2,170 | 2.0E+06 | 0.003 | 0.0E+00 |
| | 0 | 0 | Silty Sand | 5.0E-04 | 400 | 3.7E+05 | 0.003 | 0.0E+00 |
| | 0 | 0 | Clayey Silt | 1.0E-06 | 4,860 | 4.5E+06 | 0.003 | 0.0E+00 |
| MW-7M | 11 | 0.011 | Silty Sand | 5.0E-04 | 5,203 | 4.8E+06 | 0.003 | 8.0E-02 |
| | 11 | 0.011 | Clayey Silt | 1.0E-06 | 3,815 | 3.5E+06 | 0.003 | 1.2E-04 |
| MW-22 | 16 | 0.016 | Sand and Gravel | 4.8E-02 | 221 | 2.1E+05 | 0.003 | 4.7E-01 |
| | 16 | 0.016 | Silty Sand | 5.0E-04 | 12,680 | 1.2E+07 | 0.003 | 2.8E-01 |
| | 16 | 0.016 | Sand w/ some Gravel | 8.4E-03 | 74 | 6.9E+04 | 0.003 | 2.8E-02 |
| | 16 | 0.016 | Clayey Silt | 1.0E-06 | 1,364 | 1.3E+06 | 0.003 | 6.1E-05 |
| MW-2A | 0 | 0 | Silty Sand | 5.0E-04 | 4,032 | 3.7E+06 | 0.003 | 0.0E+00 |
| | 0 | 0 | Sand w/ some Gravel | 8.4E-03 | 7,524 | 7.0E+06 | 0.003 | 0.0E+00 |
| MW-2B | 0 | 0 | Sand and Gravel | 4.8E-02 | 3,873 | 3.6E+06 | 0.003 | 0.0E+00 |
| | 0 | 0 | Silty Sand | 5.0E-04 | 3,645 | 3.4E+06 | 0.003 | 0.0E+00 |
| | 0 | 0 | Clayey Silt | 1.0E-06 | 839 | 7.8E+05 | 0.003 | 0.0E+00 |

| Total Mass Dicharge ($M_d$) |
|---|
| 5.2E+01 µg/sec |
| 4.5E+00 mg/day |

**Notes:**

[1] Micrograms per liter converted to micrograms per cubic centimeter by dividing by 1,000

[2] square feet converted to square centimeters by multiplying by 929

[3] Monitoring well dry at time of sampling and no samples could be collected.

* The product of these columns in each row is $M_{dj}$

µg/l - micrograms per liter

µg/cm$^3$ - micrograms per cubic centimeter

cm/sec - centimeters per second

ft$^2$ - square feet

cm$^2$ - square centimeters

cm/cm - centimeters per centimeter

µg/sec - micrograms per second

mg/day - milligrams per day

**APPENDIX C**
**OU3 TRANSECT TOTAL VOC MASS DISCHARGE - OCTOBER 2025**

**Cortese Landfill**
**Narrowsburg, New York**

| Monitoring Well/Polygon | Total VOC Concentration ($C_j$) [1] | | Geologic Material | Hydraulic Conductivity ($K_j$) | Area ($A_j$) [2] | | Hydraulic Gradient ($i_j$) | Mass Discharge ($M_{dj}$) |
|---|---|---|---|---|---|---|---|---|
| Units | µg/l | µg/cm$^3$ * | - | cm/sec * | ft$^2$ | cm$^2$ * | cm/cm * | µg/sec |
| MW-5 | 0 | 0 | Sand and Gravel | 4.8E-02 | 3,550 | 3.3E+06 | 0.003 | 0.0E+00 |
| | 0 | 0 | Silty Sand | 5.0E-04 | 959 | 8.9E+05 | 0.003 | 0.0E+00 |
| | 0 | 0 | Clayey Silt | 1.0E-06 | 556 | 5.2E+05 | 0.003 | 0.0E+00 |
| MW-19 | 19 | 0.019 | Sand and Gravel | 4.8E-02 | 543 | 5.0E+05 | 0.003 | 1.4E+00 |
| | 19 | 0.019 | Silty Sand | 5.0E-04 | 9,471 | 8.8E+06 | 0.003 | 2.5E-01 |
| | 19 | 0.019 | Clayey Silt | 1.0E-06 | 88 | 8.2E+04 | 0.003 | 4.7E-06 |
| | 19 | 0.019 | Sand w/ some Gravel | 8.4E-03 | 3,372 | 3.1E+06 | 0.003 | 1.5E+00 |
| MW-18A | 0 | 0 | Clayey Silt | 1.0E-06 | 289 | 2.7E+05 | 0.003 | 0.0E+00 |
| | 0 | 0 | Sand w/ some Gravel | 8.4E-03 | 16,284 | 1.5E+07 | 0.003 | 0.0E+00 |
| MW-18B | 140 | 0.14 | Silty Sand | 5.0E-04 | 5,690 | 5.3E+06 | 0.003 | 1.1E+00 |
| | 140 | 0.14 | Sand w/ some Gravel | 8.4E-03 | 718 | 6.7E+05 | 0.003 | 2.4E+00 |
| MW-18C | 24 | 0.024 | Sand and Gravel | 4.8E-02 | 5,314 | 4.9E+06 | 0.003 | 1.7E+01 |
| | 24 | 0.024 | Silty Sand | 5.0E-04 | 509 | 4.7E+05 | 0.003 | 1.7E-02 |
| MW-6A | 190 | 0.19 | Silty Sand | 5.0E-04 | 4,227 | 3.9E+06 | 0.003 | 1.1E+00 |
| | 190 | 0.19 | Sand w/ some Gravel | 8.4E-03 | 5,790 | 5.4E+06 | 0.003 | 2.6E+01 |
| | 190 | 0.19 | Clayey Silt | 1.0E-06 | 38 | 3.5E+04 | 0.003 | 2.0E-05 |
| MW-6B | 2 | 0.0023 | Sand and Gravel | 4.8E-02 | 3,185 | 3.0E+06 | 0.003 | 9.8E-01 |
| | 2 | 0.0023 | Silty Sand | 5.0E-04 | 3,785 | 3.5E+06 | 0.003 | 1.2E-02 |
| | 2 | 0.0023 | Clayey Silt | 1.0E-06 | 561 | 5.2E+05 | 0.003 | 3.6E-06 |
| MW-21 | 35 | 0.035 | Silty Sand | 5.0E-04 | 7,630 | 7.1E+06 | 0.003 | 3.7E-01 |
| | 35 | 0.035 | Clayey Silt | 1.0E-06 | 719 | 6.7E+05 | 0.003 | 7.0E-05 |
| | 35 | 0.035 | Sand w/ some Gravel | 8.4E-03 | 1,523 | 1.4E+06 | 0.003 | 1.2E+00 |
| MW-7A | 0 | 0 | Clayey Silt | 1.0E-06 | 2,571 | 2.4E+06 | 0.003 | 0.0E+00 |
| | 0 | 0 | Sand w/ some Gravel | 8.4E-03 | 8,595 | 8.0E+06 | 0.003 | 0.0E+00 |
| MW-7B | 0 | 0 | Sand and Gravel | 4.8E-02 | 2,170 | 2.0E+06 | 0.003 | 0.0E+00 |
| | 0 | 0 | Silty Sand | 5.0E-04 | 400 | 3.7E+05 | 0.003 | 0.0E+00 |
| | 0 | 0 | Clayey Silt | 1.0E-06 | 4,860 | 4.5E+06 | 0.003 | 0.0E+00 |
| MW-7M | 4.8 | 0.0048 | Silty Sand | 5.0E-04 | 5,203 | 4.8E+06 | 0.003 | 3.5E-02 |
| | 4.8 | 0.0048 | Clayey Silt | 1.0E-06 | 3,815 | 3.5E+06 | 0.003 | 5.1E-05 |
| MW-22 | 15 | 0.015 | Sand and Gravel | 4.8E-02 | 221 | 2.1E+05 | 0.003 | 4.4E-01 |
| | 15 | 0.015 | Silty Sand | 5.0E-04 | 12,680 | 1.2E+07 | 0.003 | 2.7E-01 |
| | 15 | 0.015 | Sand w/ some Gravel | 8.4E-03 | 74 | 6.9E+04 | 0.003 | 2.6E-02 |
| | 15 | 0.015 | Clayey Silt | 1.0E-06 | 1,364 | 1.3E+06 | 0.003 | 5.7E-05 |
| MW-2A | 0 | 0 | Silty Sand | 5.0E-04 | 4,032 | 3.7E+06 | 0.003 | 0.0E+00 |
| | 0 | 0 | Sand w/ some Gravel | 8.4E-03 | 7,524 | 7.0E+06 | 0.003 | 0.0E+00 |
| MW-2B | 0 | 0 | Sand and Gravel | 4.8E-02 | 3,873 | 3.6E+06 | 0.003 | 0.0E+00 |
| | 0 | 0 | Silty Sand | 5.0E-04 | 3,645 | 3.4E+06 | 0.003 | 0.0E+00 |
| | 0 | 0 | Clayey Silt | 1.0E-06 | 839 | 7.8E+05 | 0.003 | 0.0E+00 |

| Total Mass Dicharge ($M_d$) |
|---|
| 5.4E+01 µg/sec |
| 4.7E+00 mg/day |

**Notes:**

[1] Micrograms per liter converted to micrograms per cubic centimeter by dividing by 1,000

[2] square feet converted to square centimeters by multiplying by 929

* The product of these columns in each row is $M_{dj}$

µg/l - micrograms per liter

µg/cm$^3$ - micrograms per cubic centimeter

cm/sec - centimeters per second

ft$^2$ - square feet

cm$^2$ - square centimeters

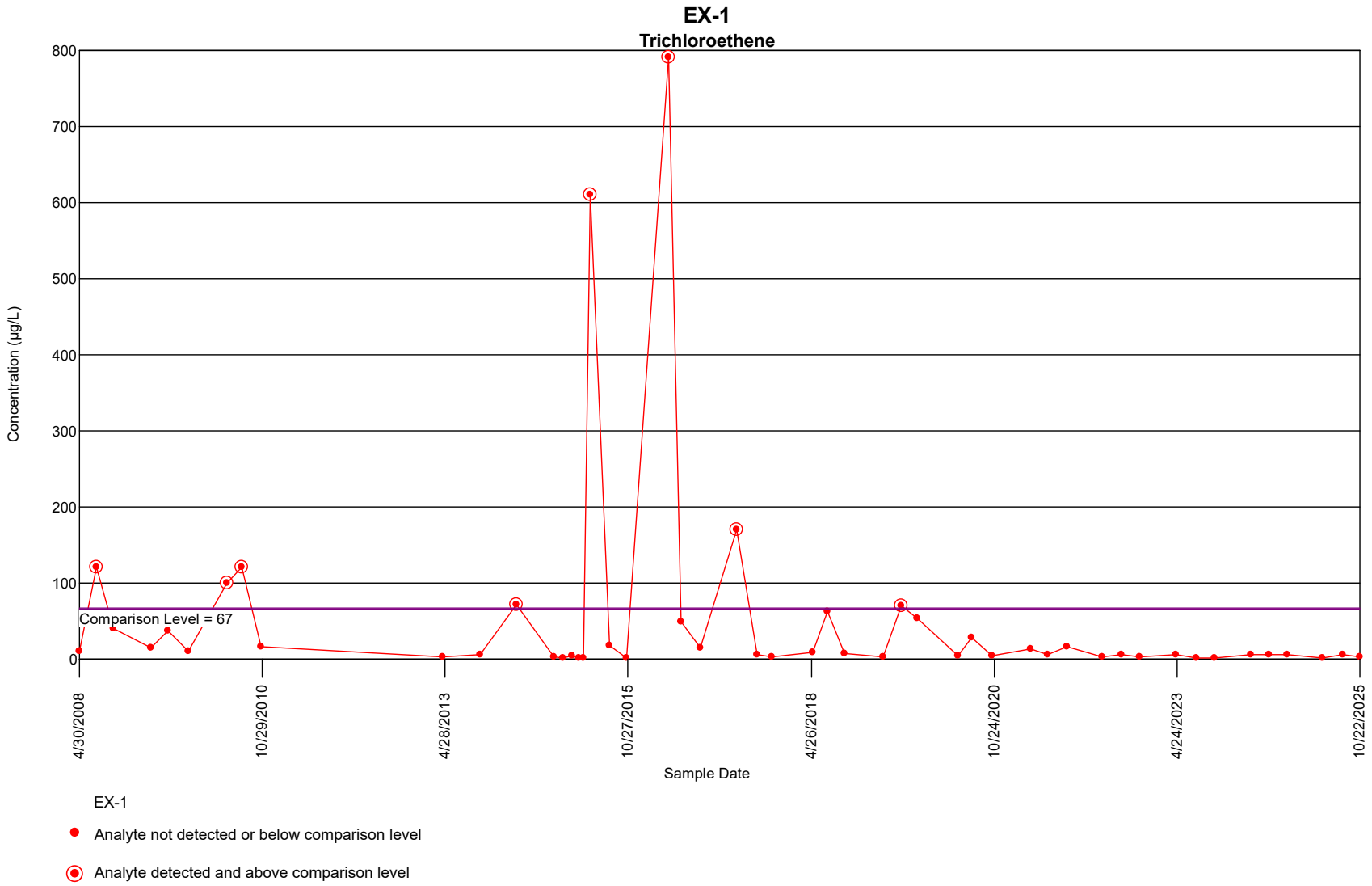
cm/cm - centimeters per centimeter

µg/sec - micrograms per second

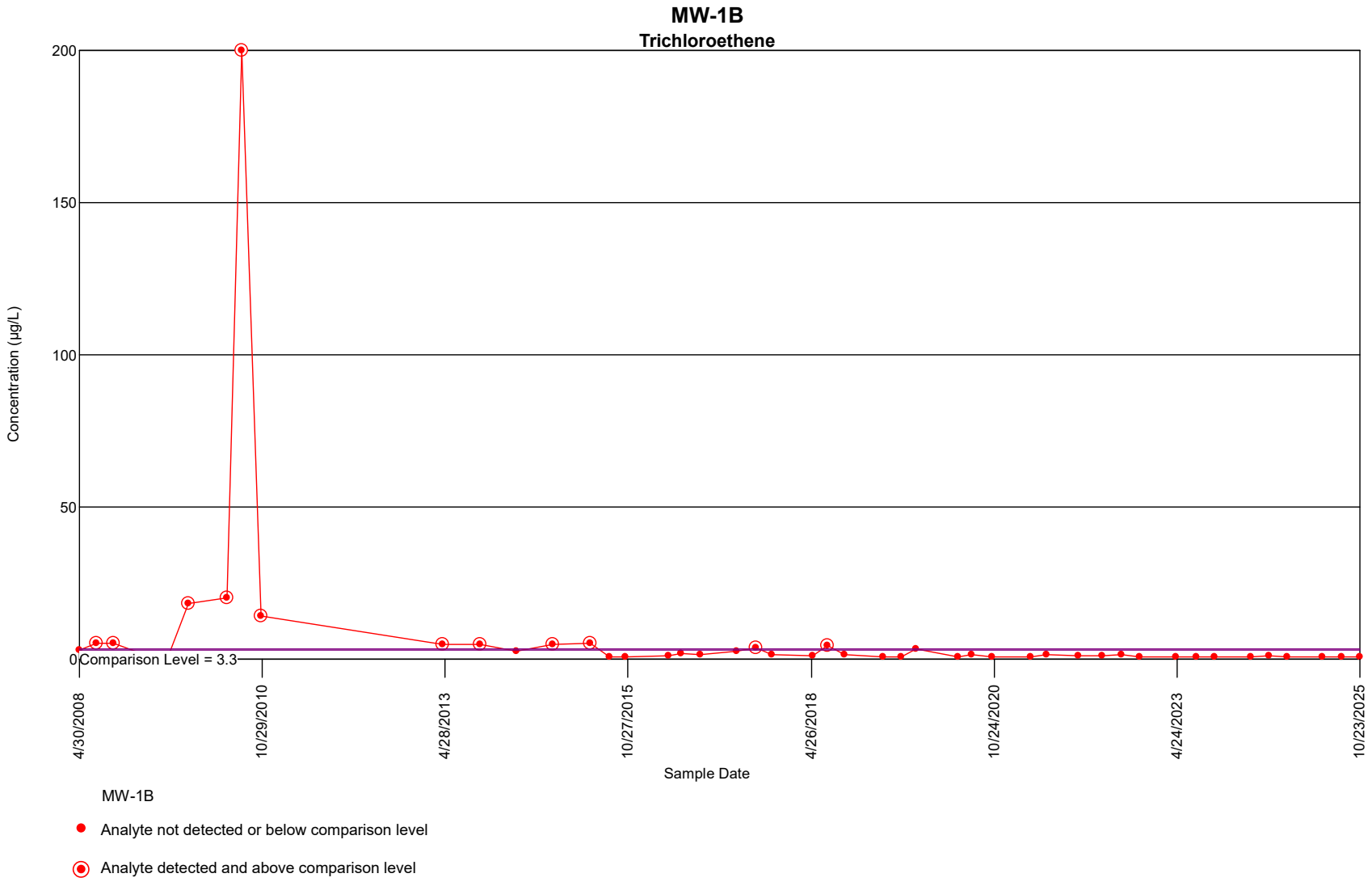
mg/day - milligrams per day

# APPENDIX D

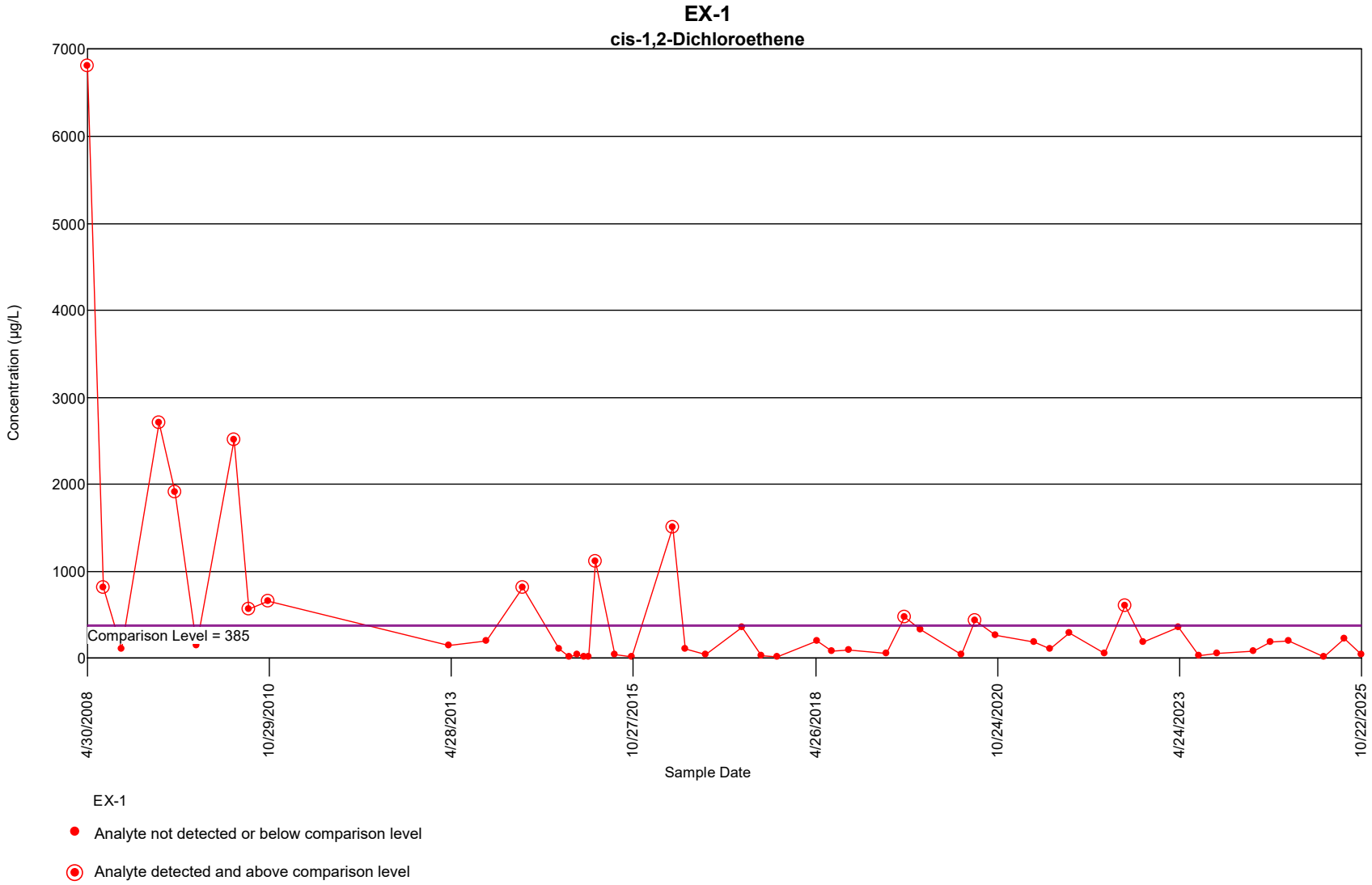
# TIME-SERIES CONCENTRATION PLOTS FOR SELECT VOCS AT EX-1 AND MW-1B



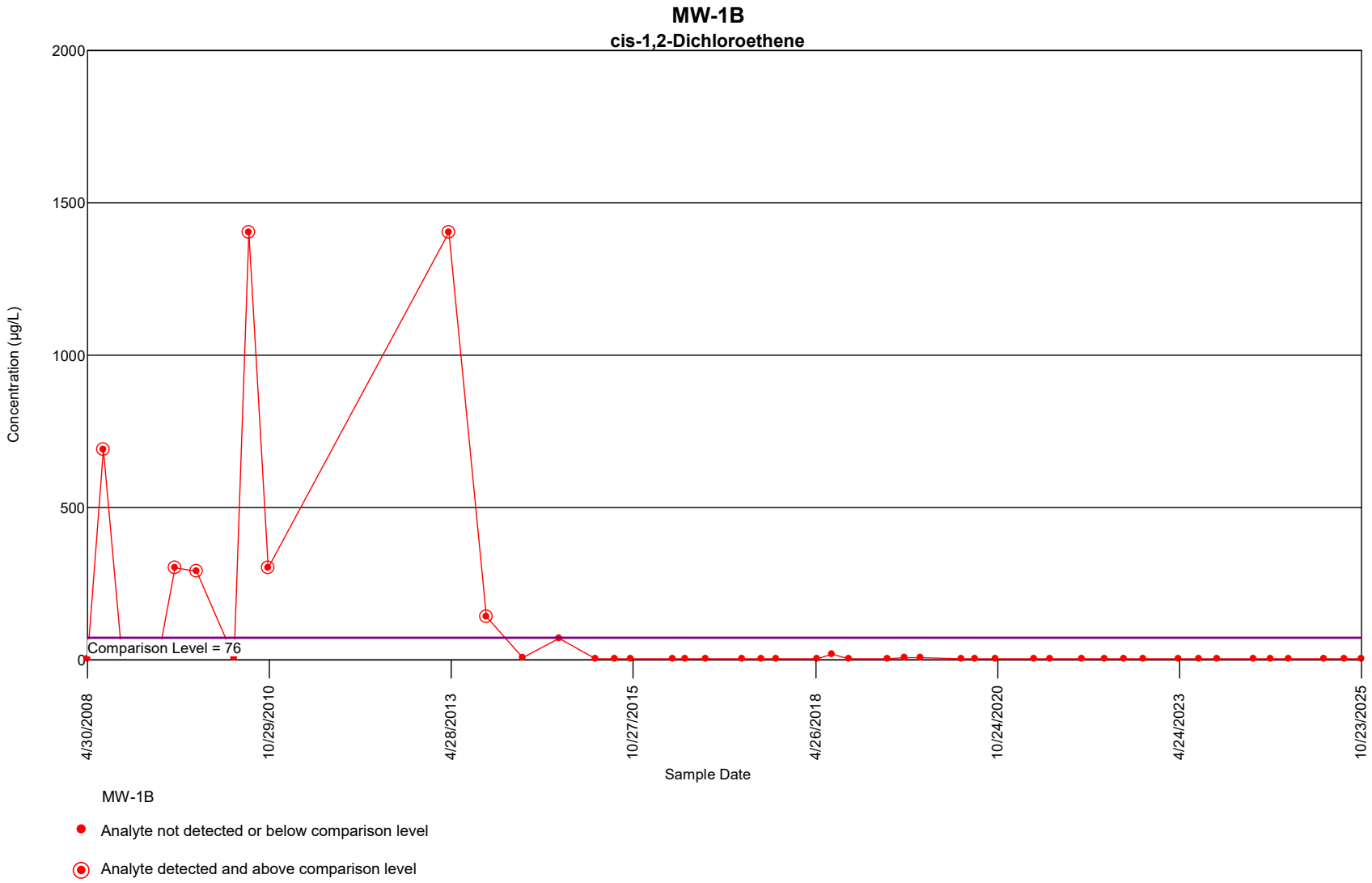

Non-Detects Replaced with Detection Limit



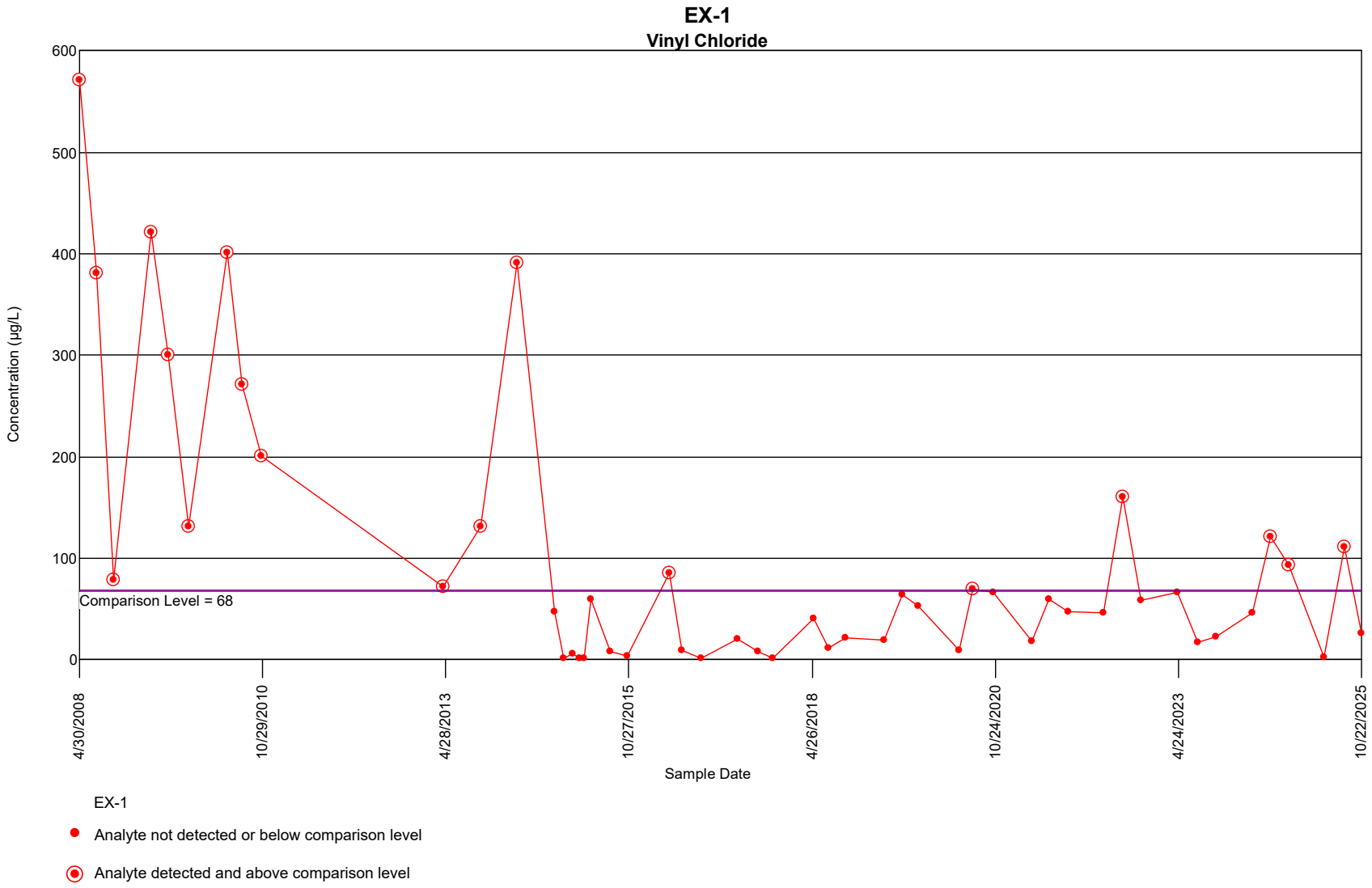

Non-Detects Replaced with Detection Limit



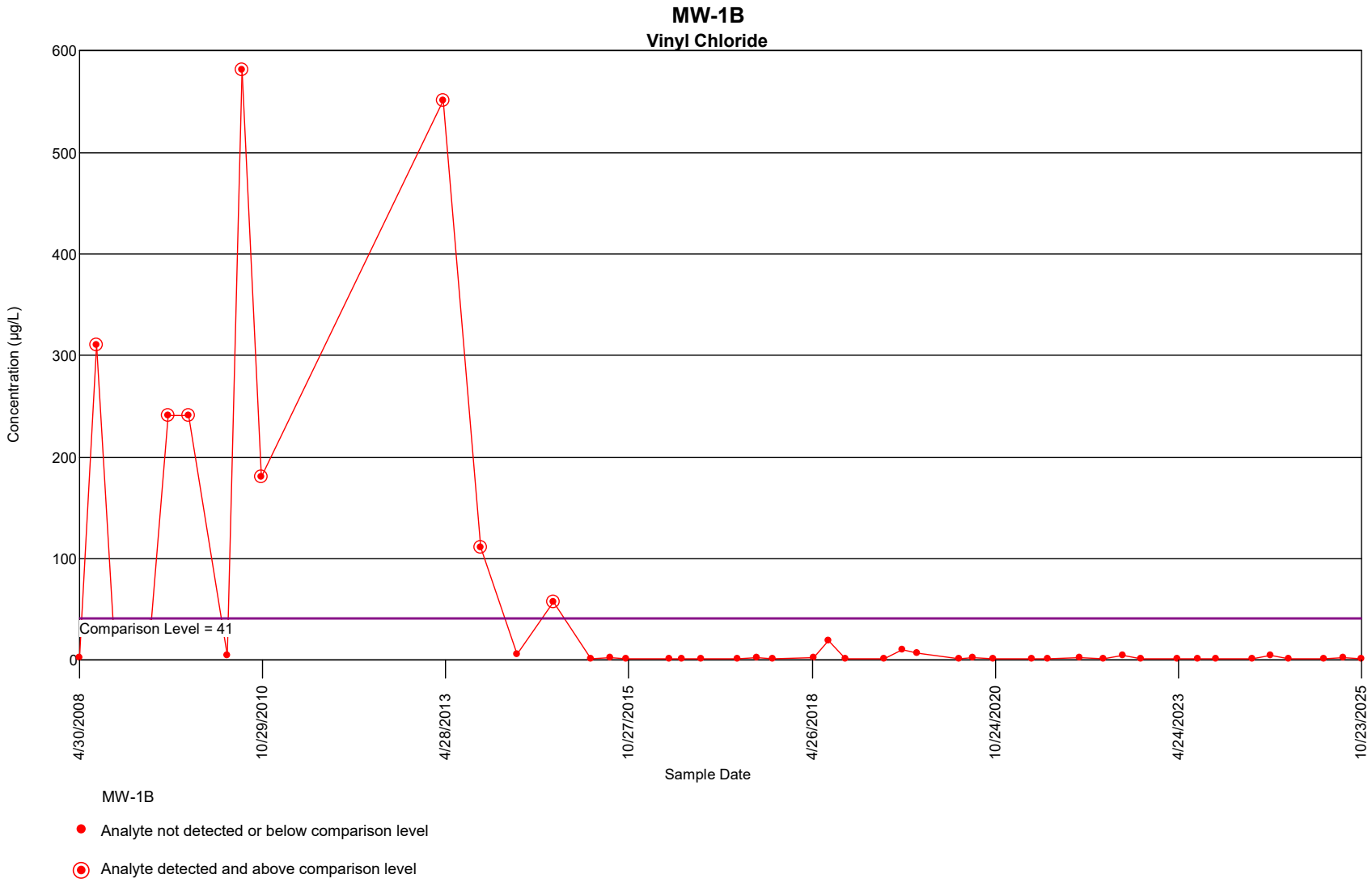

Non-Detects Replaced with Detection Limit



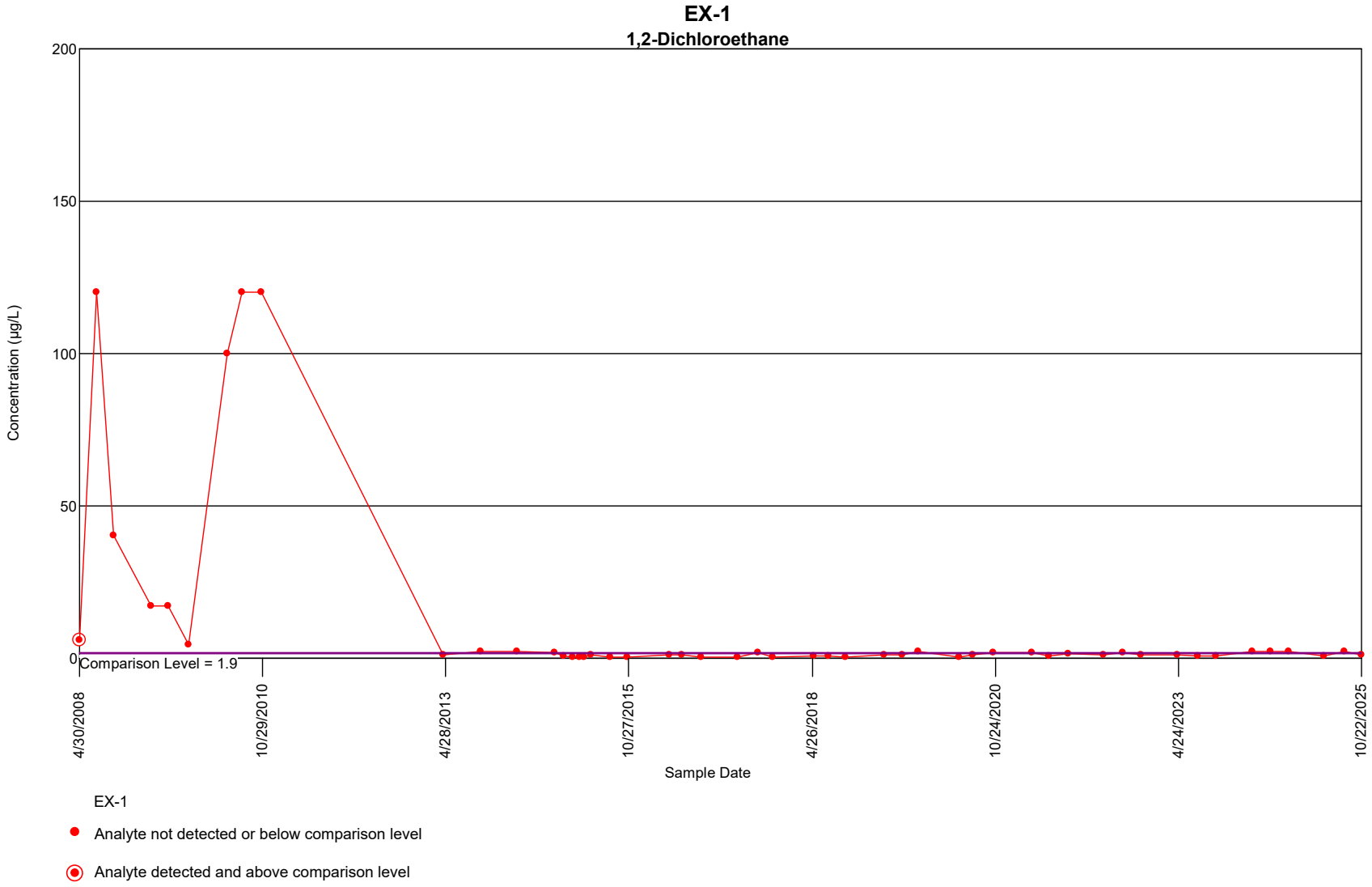

Non-Detects Replaced with Detection Limit



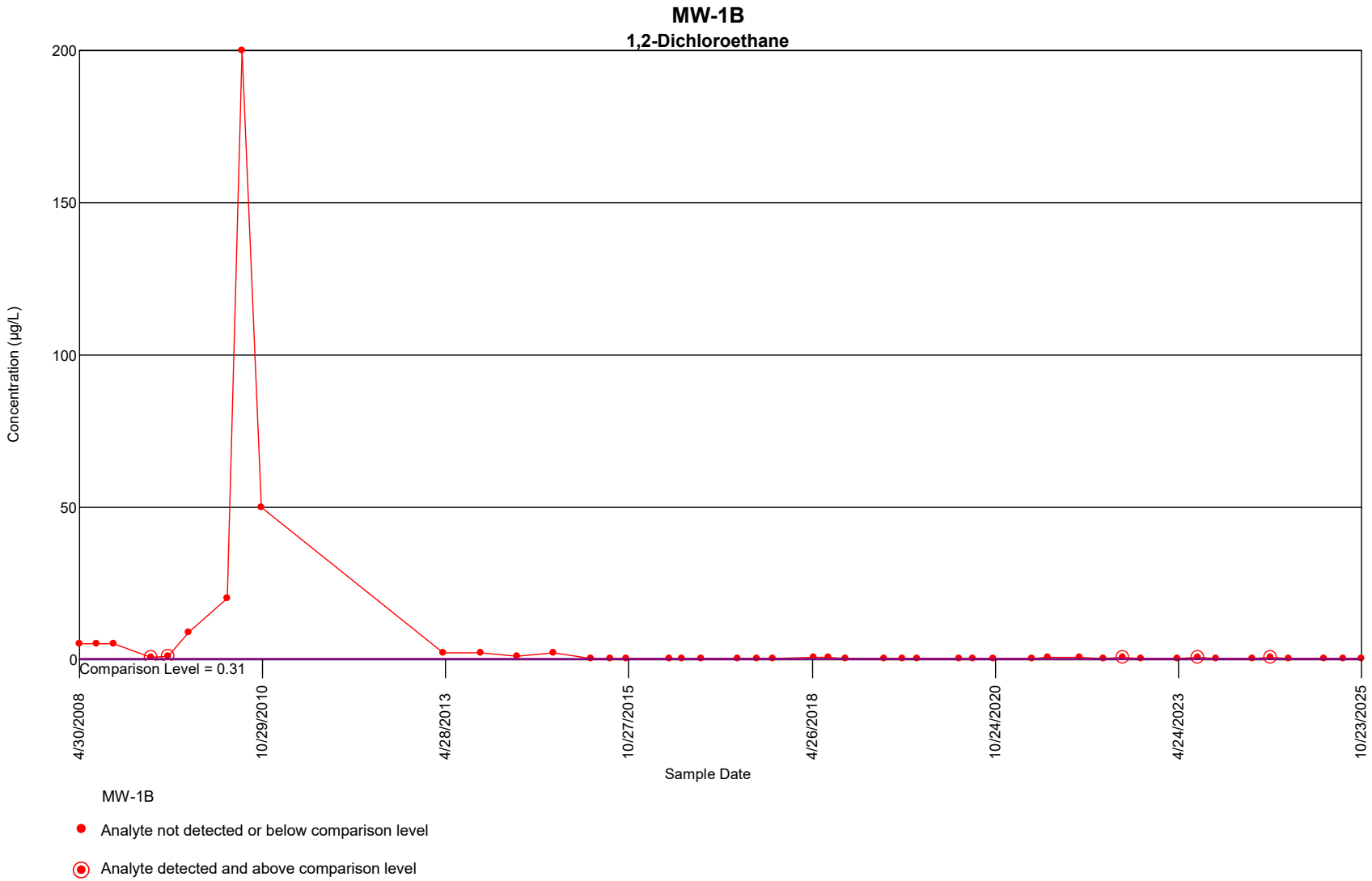

Non-Detects Replaced with Detection Limit



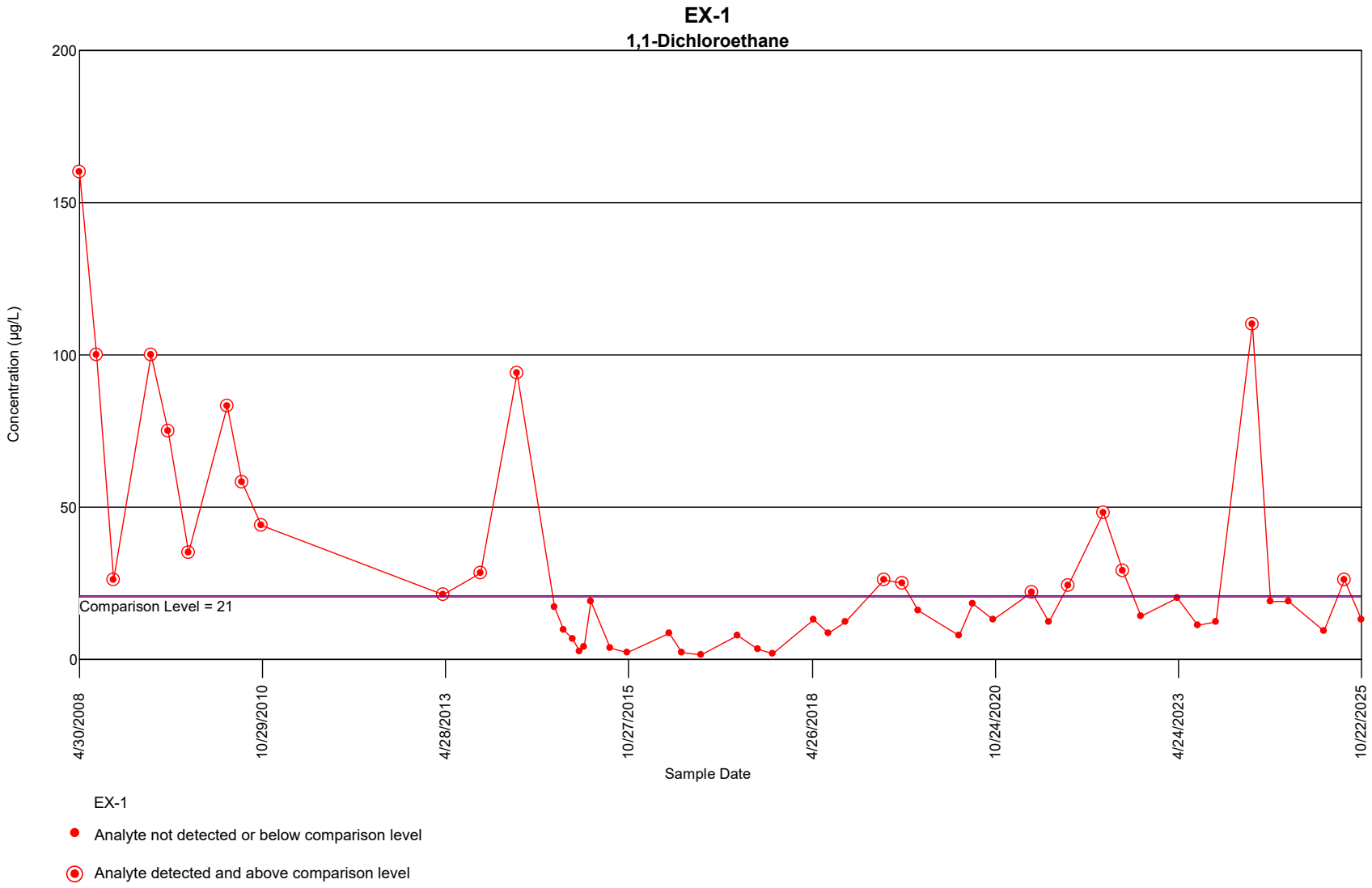

Non-Detects Replaced with Detection Limit



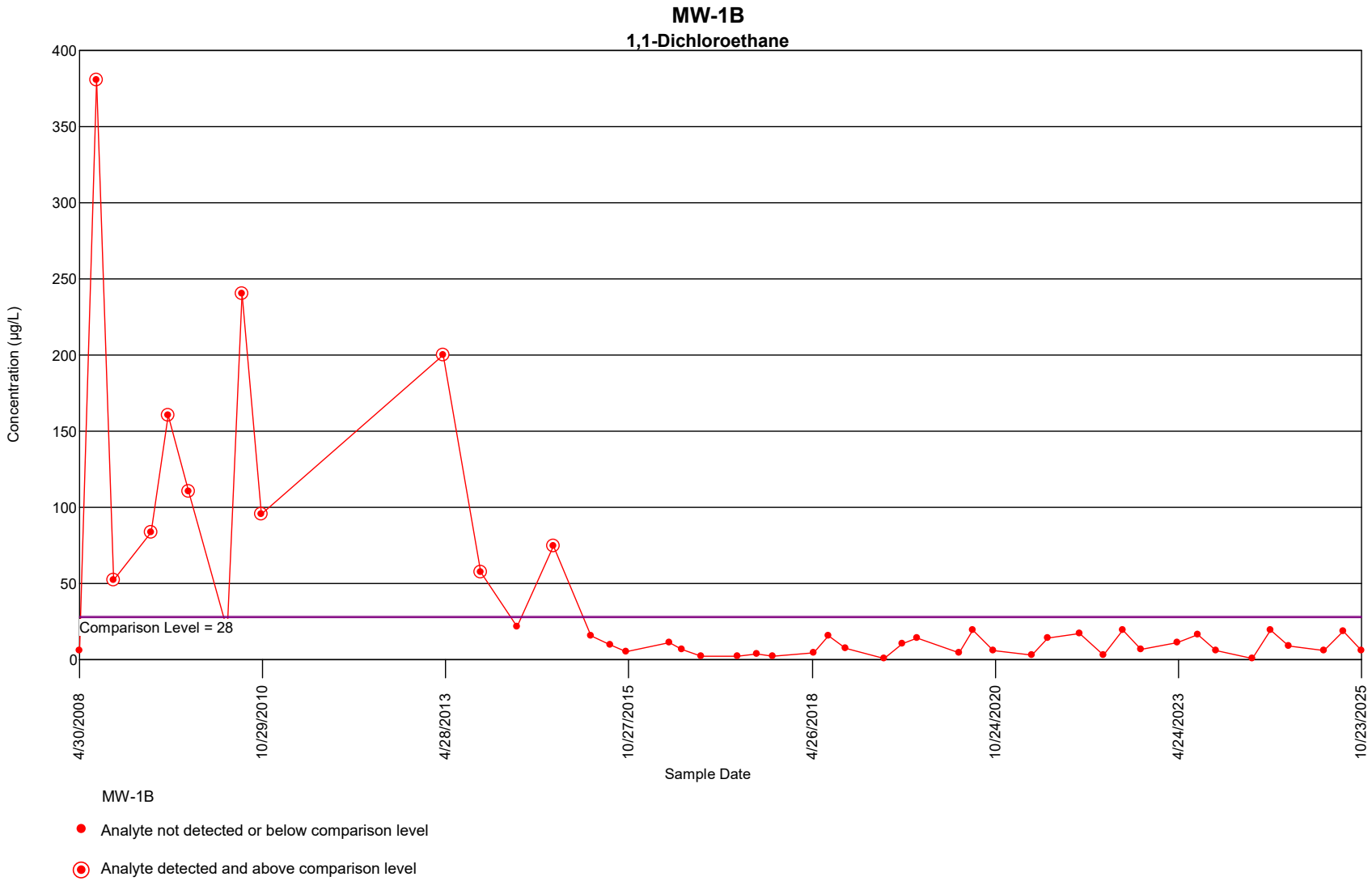

Non-Detects Replaced with Detection Limit



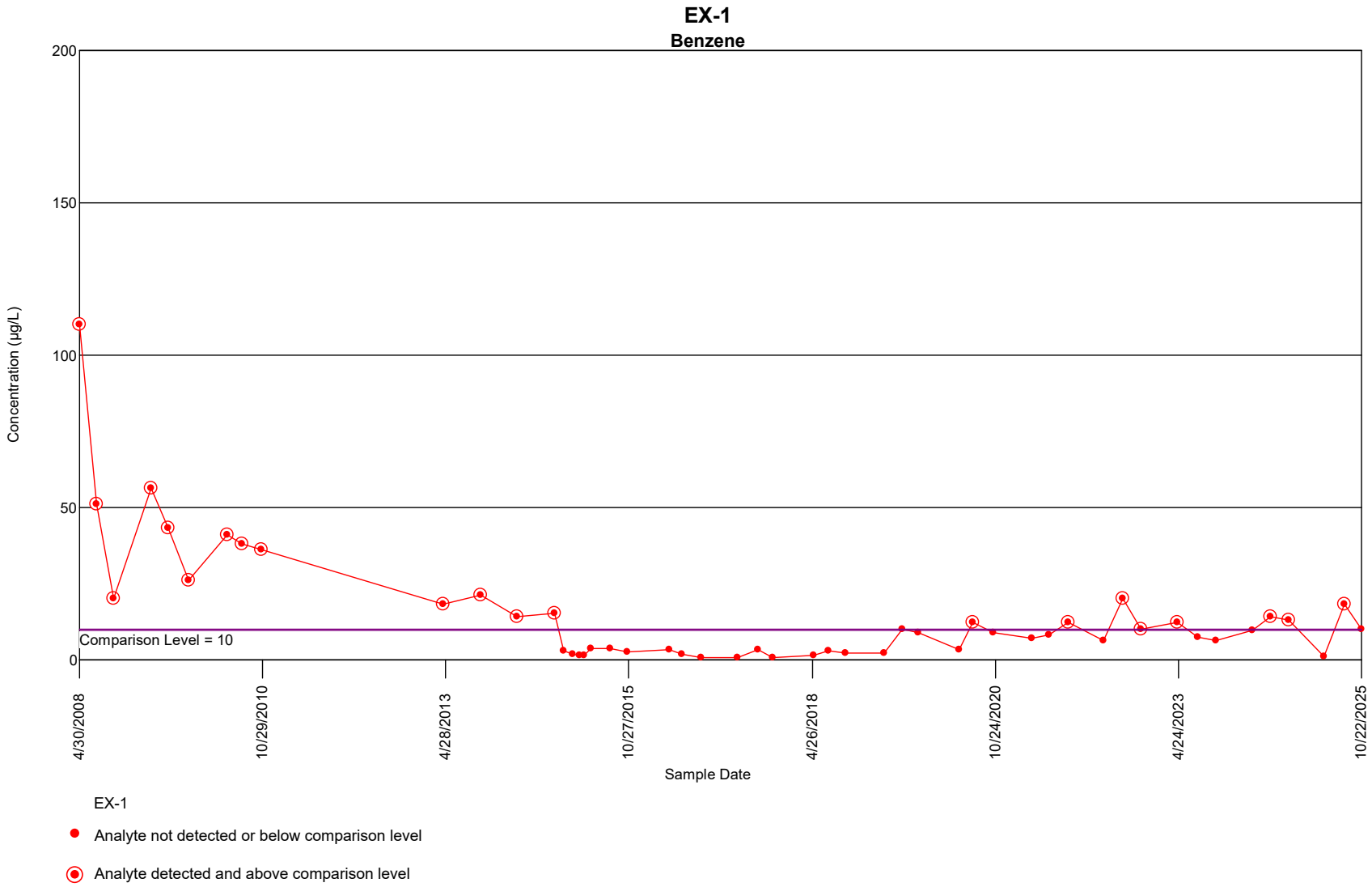

Non-Detects Replaced with Detection Limit



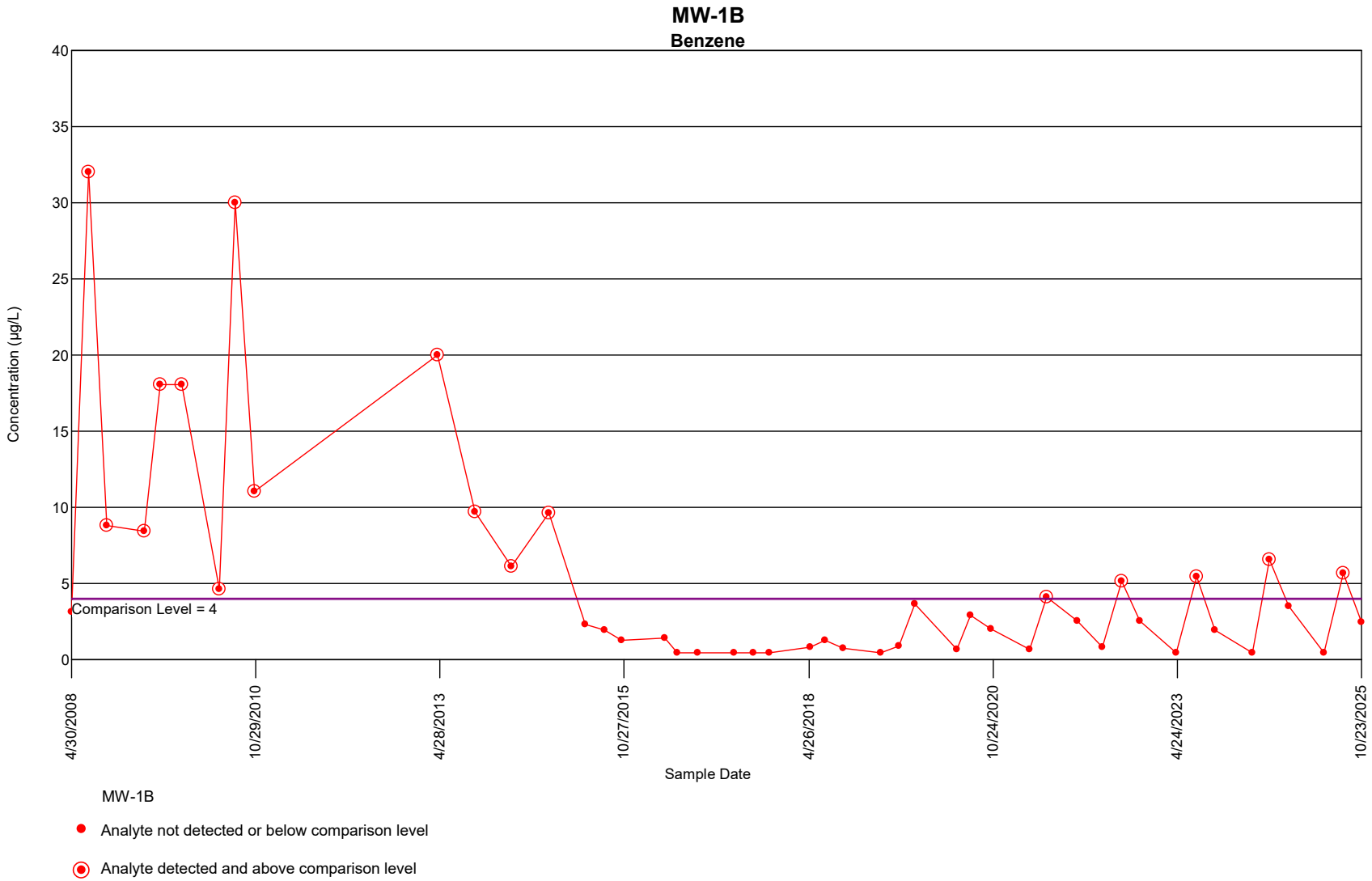

Non-Detects Replaced with Detection Limit



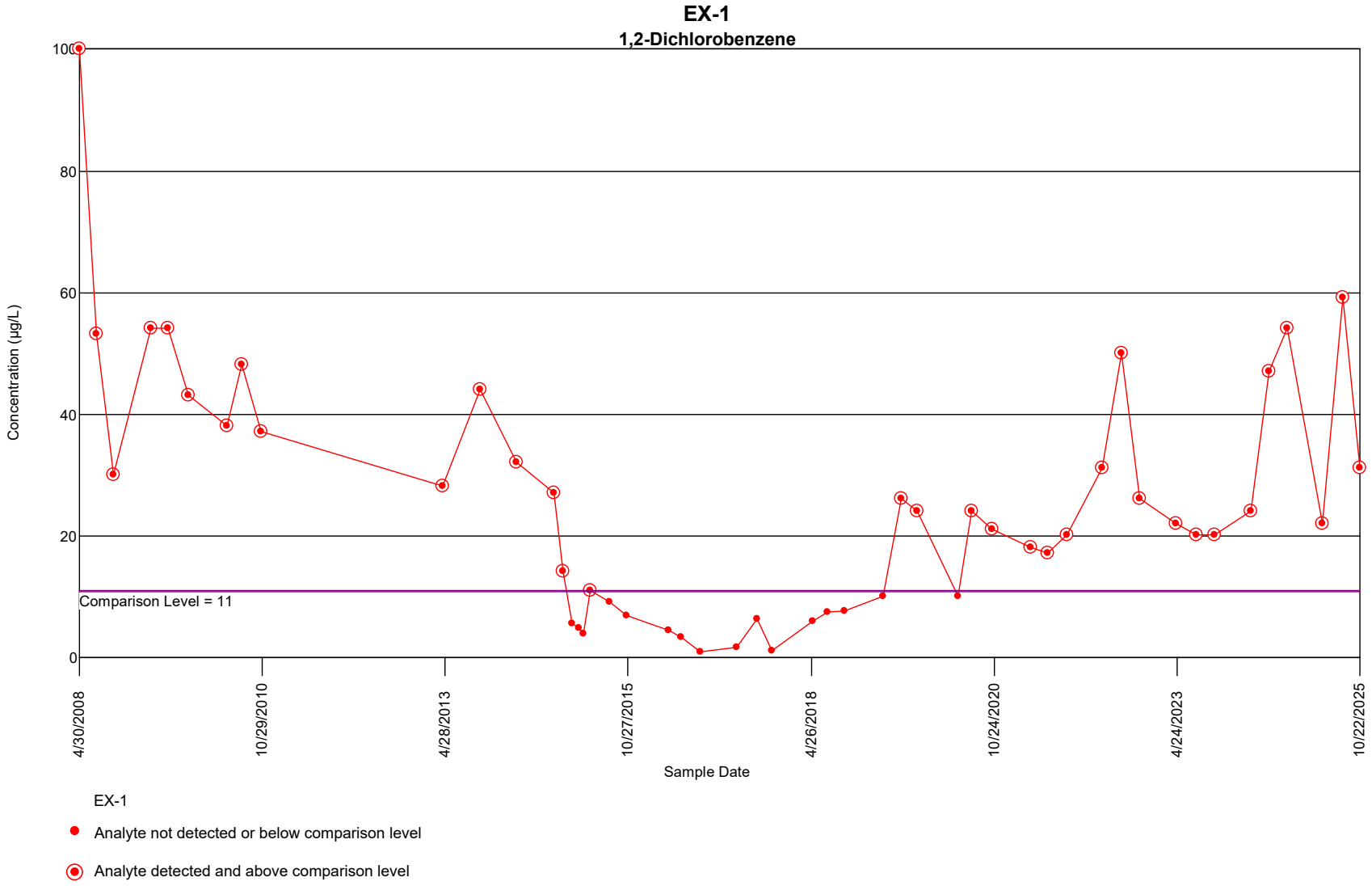

Non-Detects Replaced with Detection Limit



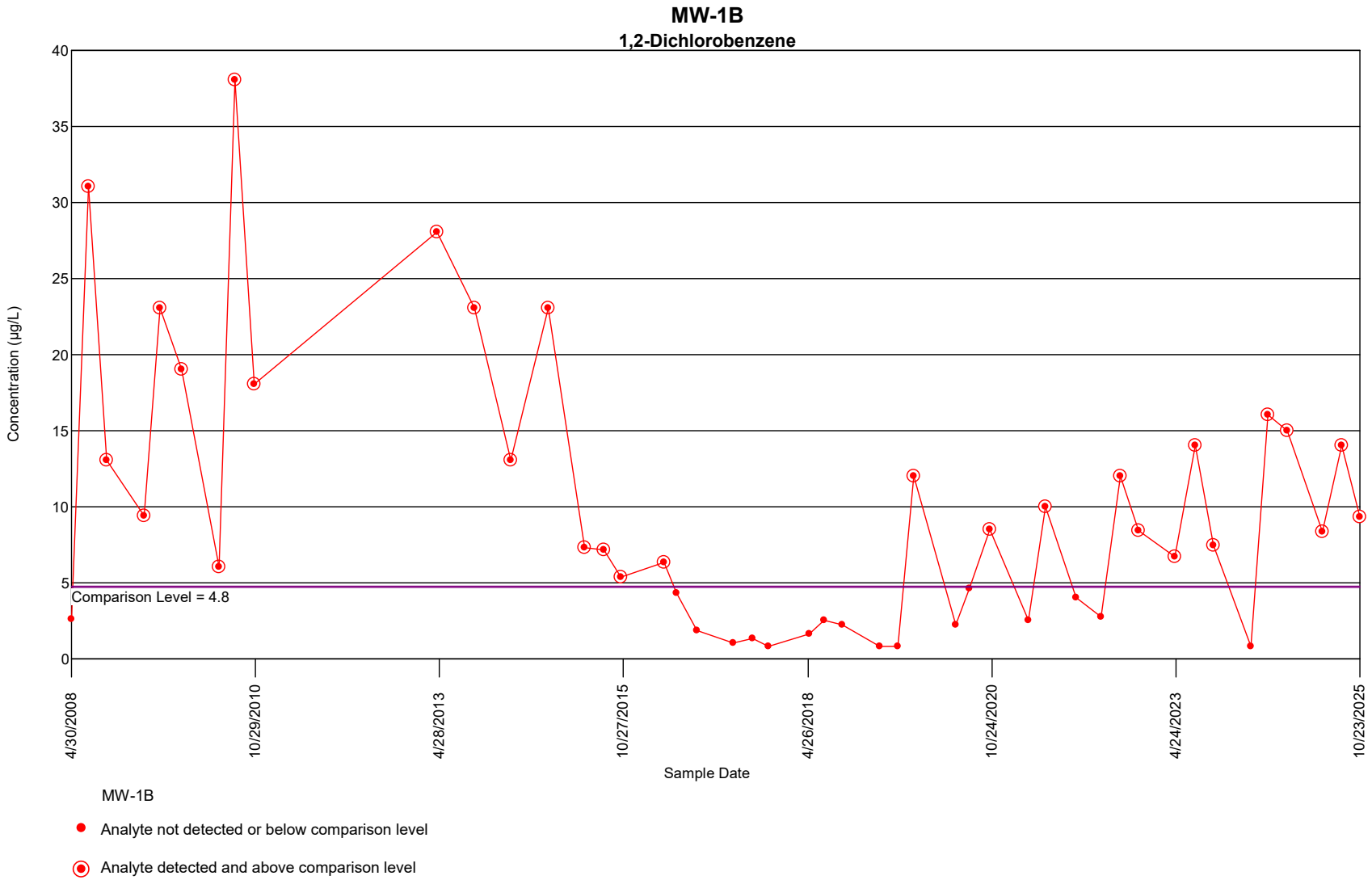

Non-Detects Replaced with Detection Limit



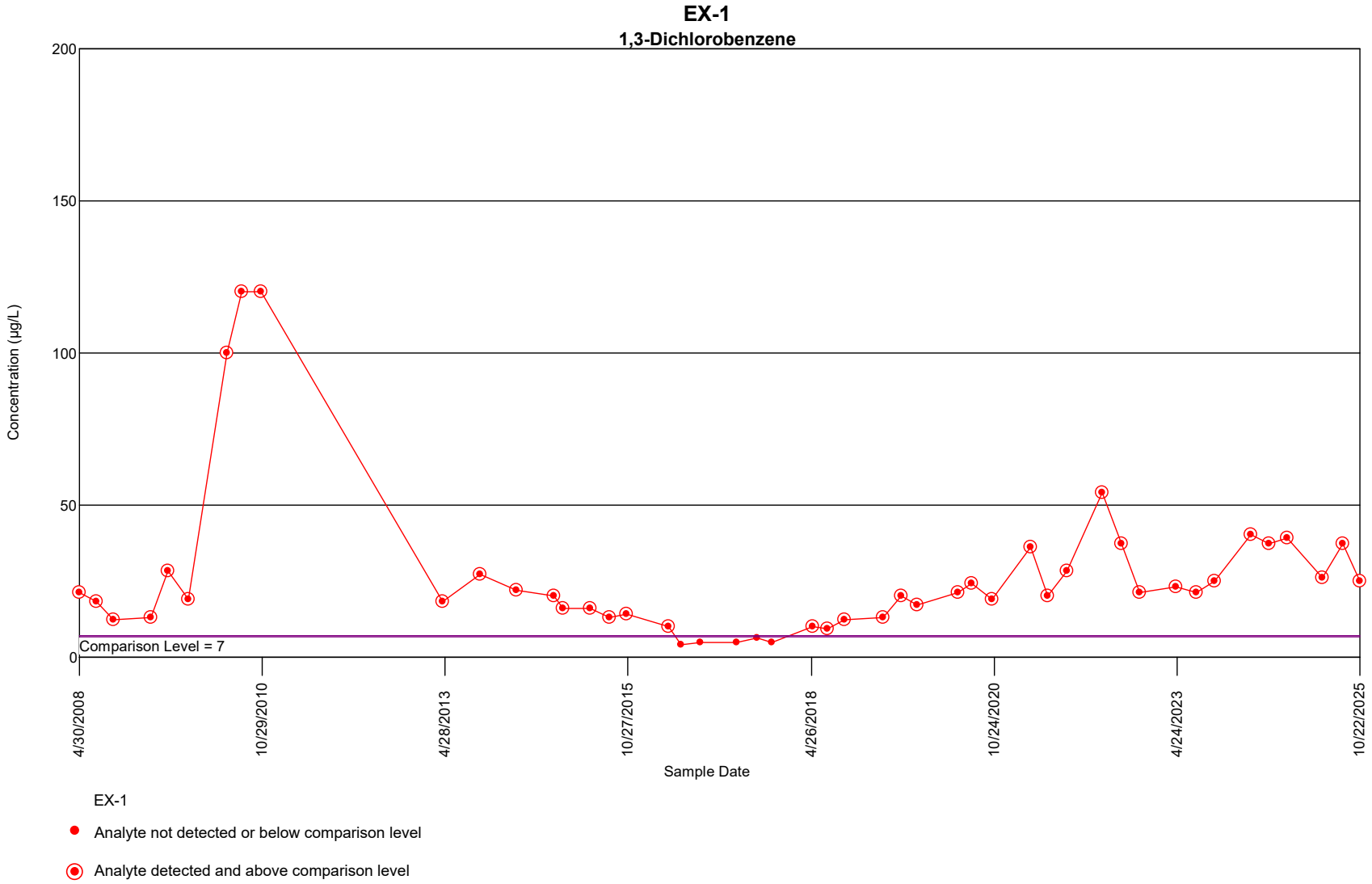

Non-Detects Replaced with Detection Limit



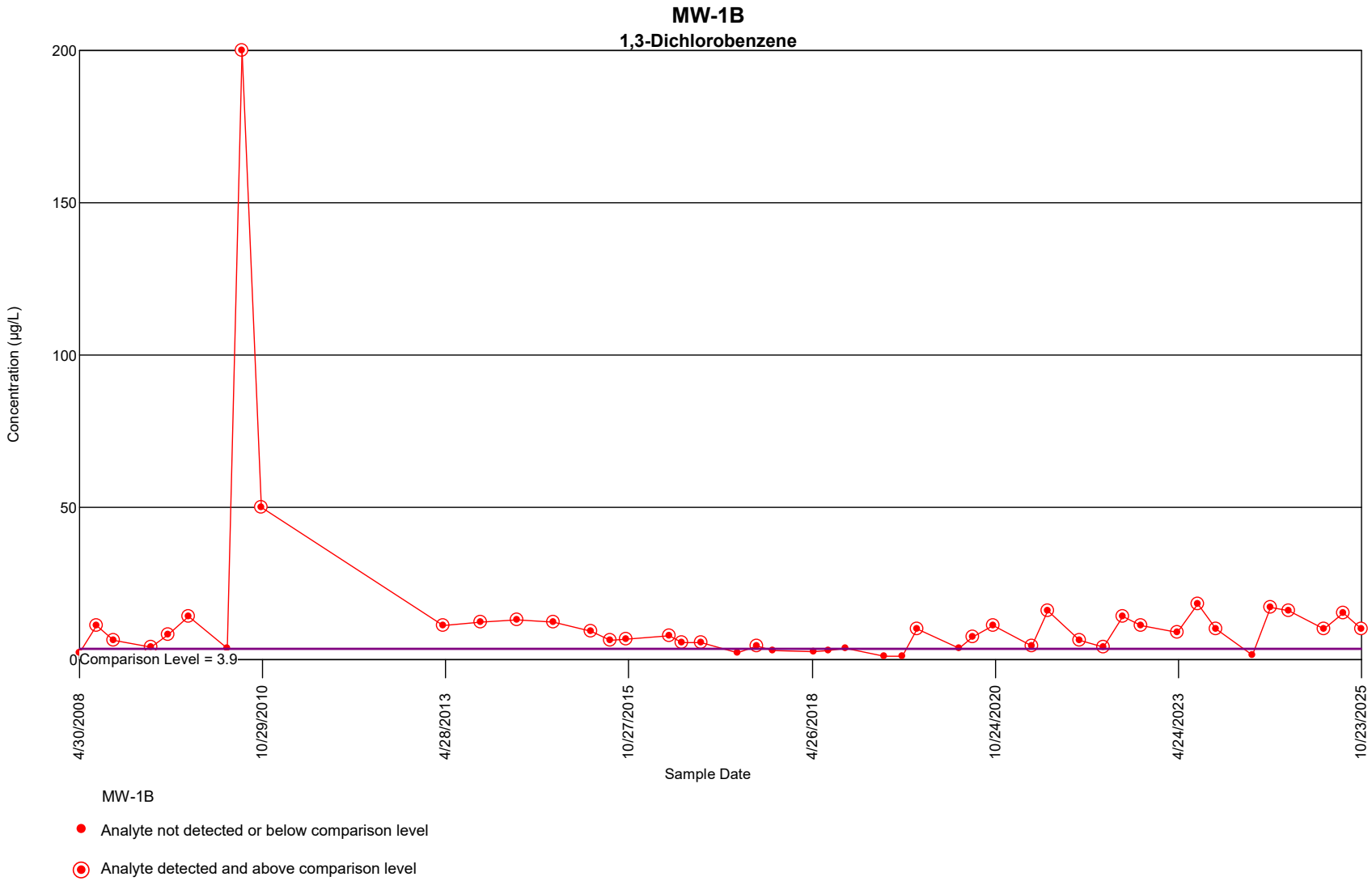

Non-Detects Replaced with Detection Limit



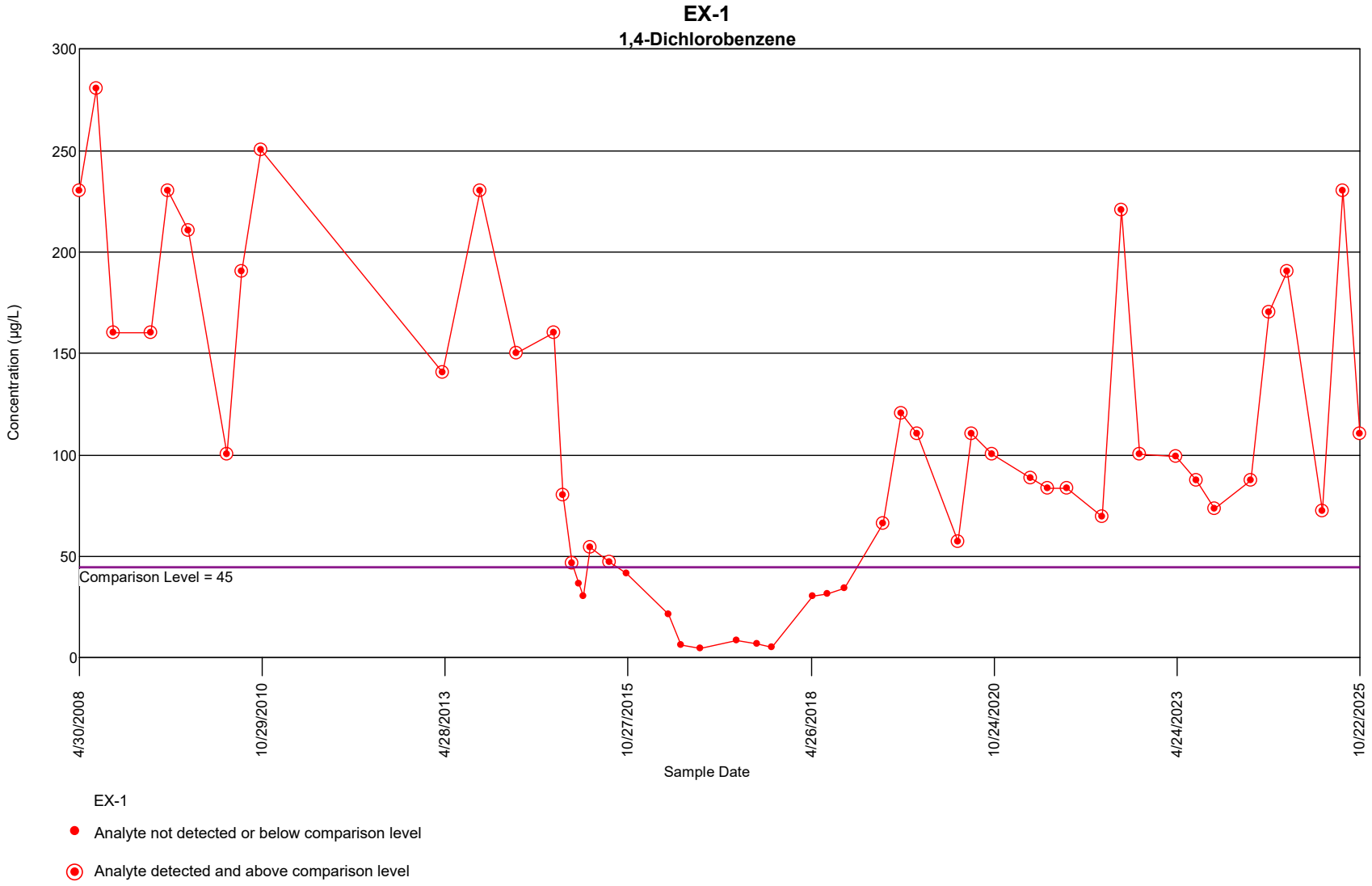

Non-Detects Replaced with Detection Limit




Non-Detects Replaced with Detection Limit

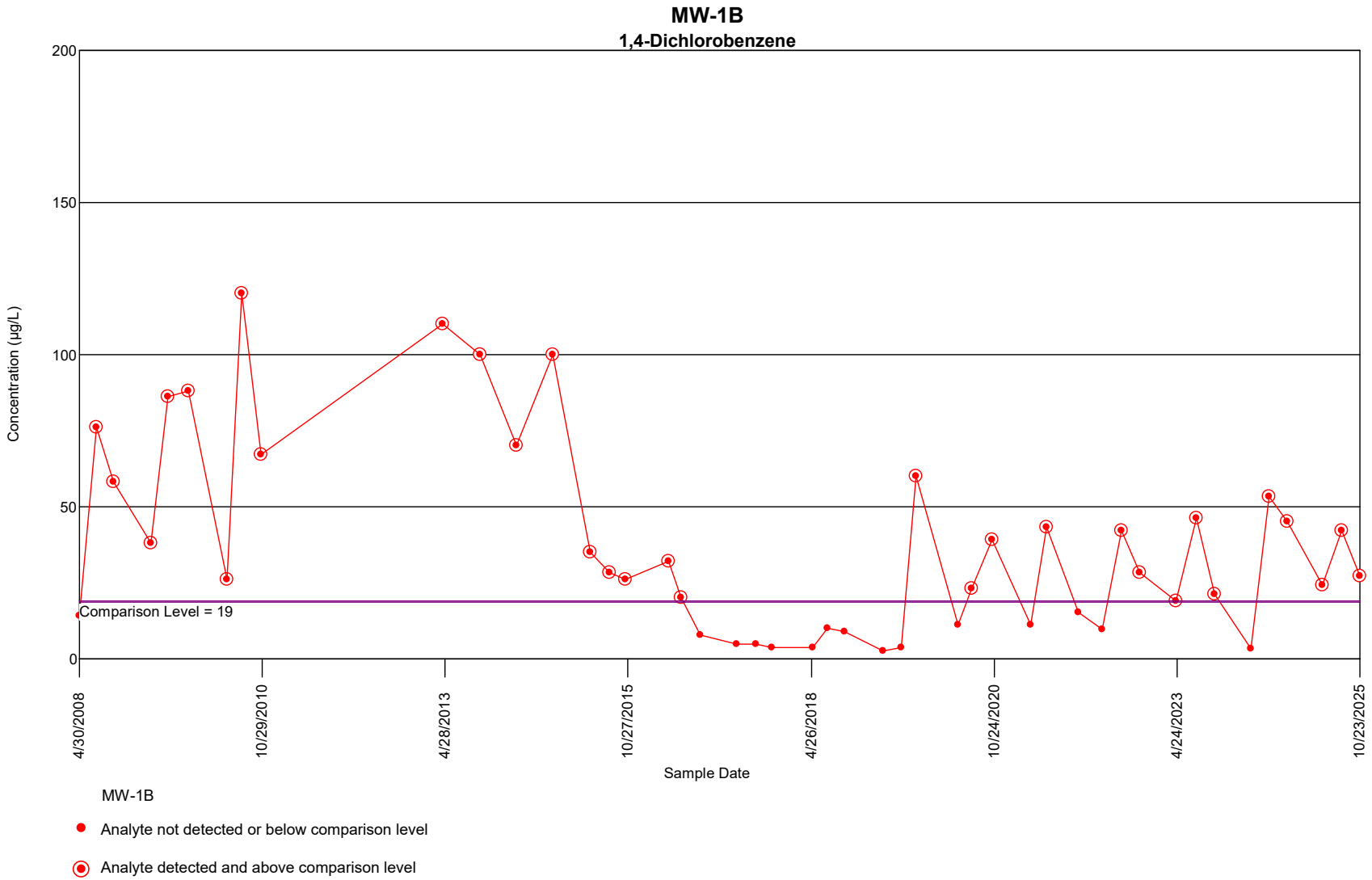



Non-Detects Replaced with Detection Limit

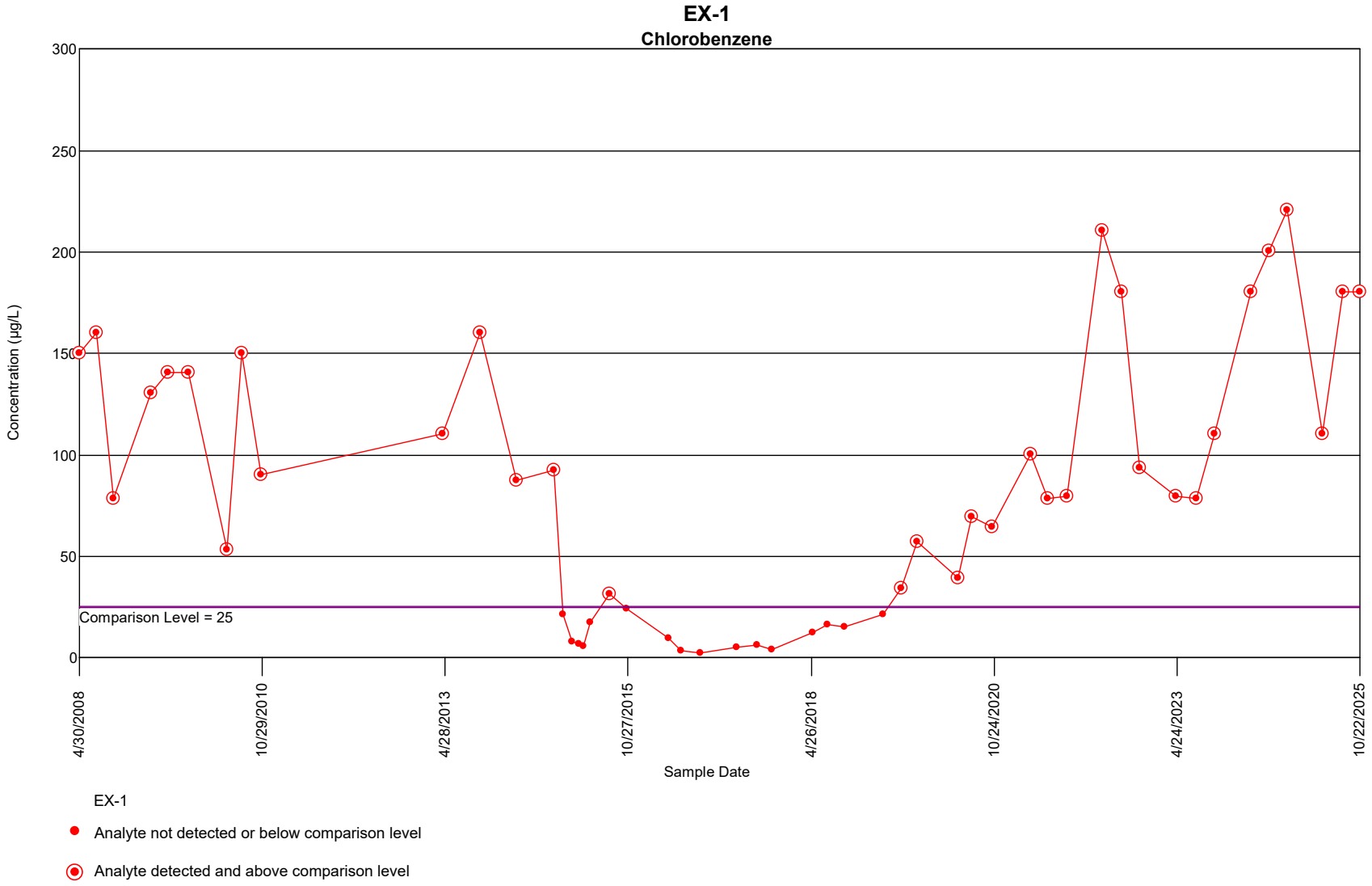



Non-Detects Replaced with Detection Limit

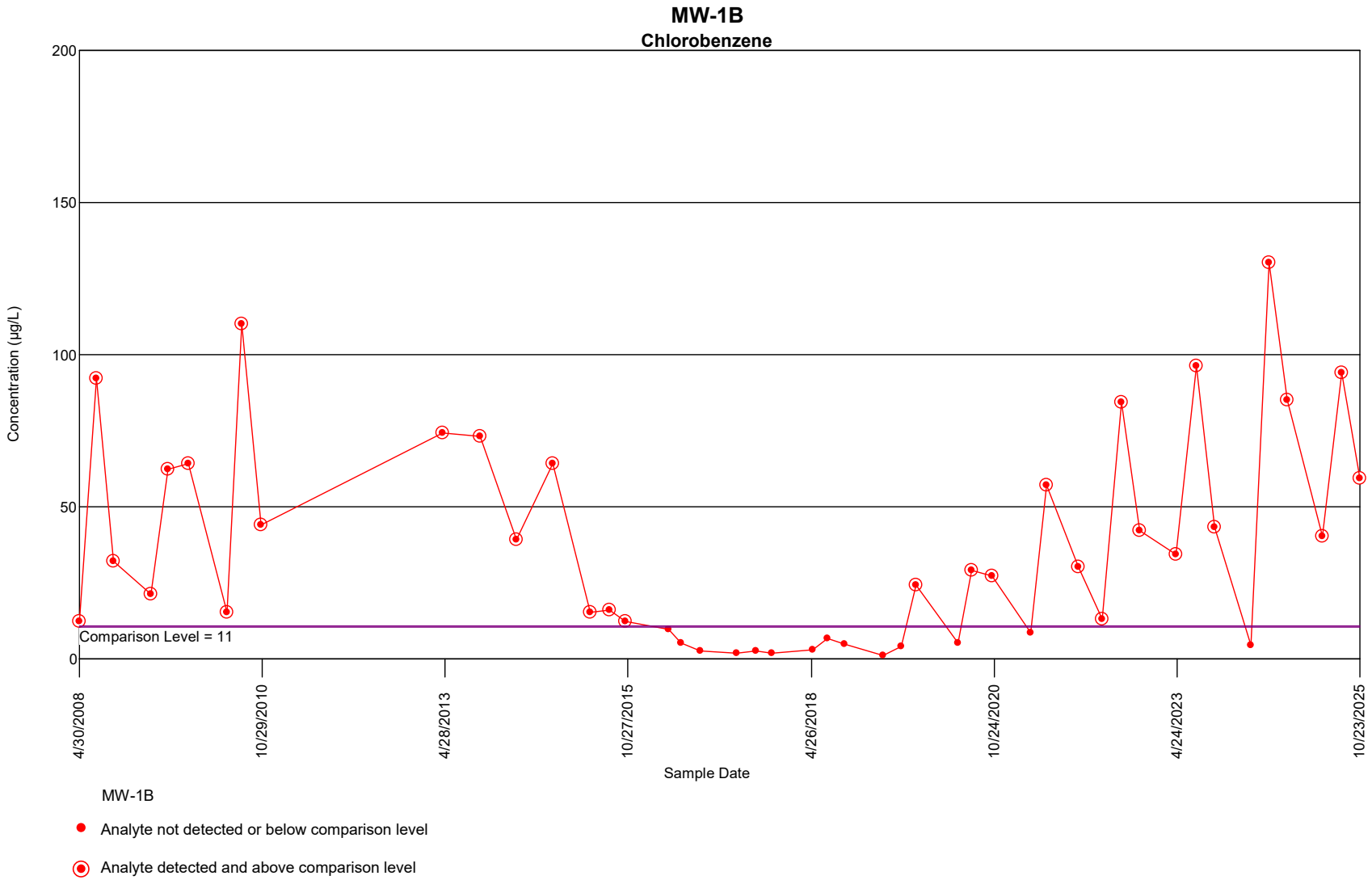
April 2026




Non-Detects Replaced with Detection Limit




Non-Detects Replaced with Detection Limit




Non-Detects Replaced with Detection Limit

# APPENDIX E

# ANNUAL INSPECTION FORM

FIGURE 3
POST-CLOSURE ANNUAL INSPECTION FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DATE 3/25/25

INSPECTOR Adam Smith

INSPECTION (Circle one): (ANNUAL) OTHER _____

| ITEM | ADEQUATE | NEEDS ATTENTION | COMMENTS (NOTE IF REPAIR MAINTENANCE REQUIRED) |
|---|---|---|---|
| I. PROTECTIVE COVER SYSTEMS | | | |
| A. General condition of cover material | X | | No action required |
| B. Settlement control | X | | No action required |
| C. Erosion control | X | | No action required |
| D. Animal burrows | X | | No action required |
| E. Large weeds or woody species | X | | Repairs made 3/25/25 |
| F. Vegetation | X | | No action required |
| G. General conditions of access roads | X | | No action required |
| II. SURFACE WATER DRAINAGE SYSTEMS | | | |
| A. General condition of channels | X | | No action required |
| B. Settlement control | X | | No action required |
| C. Erosion control | X | | No action required |
| D. Animal burrowing | X | | No action required |
| E. Flow capability | X | | No action required |
| F. Rip rap protection | X | | No action required |
| G. Vegetation control | X | | No action required |
| H. Integrity of groundwater recharge riser pipes | X | | No action required |
| I. Structural integrity of culverts | X | | No action required |
| III. PASSIVE GAS VENTING SYSTEM | | | |
| A. General condition of each vent | X | | No action required |
| B. Vent visibility | X | | veg. Clearing performed 3/25/25 |
| C. Drainage and accessibility | X | | No action required |
| D. Venting capability | X | | No action required |
| IV. SITE SECURITY | | | |
| A. Security Fence | X | | Repairs made 3/25/25 |
| B. Gate and lock | X | | No action required |

Clearly Identify Areas Needing Attention (Reference Item No.) on the Site Plan.

FIGURE 4
POST CLOSURE MAINTENANCE/REPAIR FORM
CORTESE LANDFILL
NARROWSBURG, NEW YORK

DESCRIPTION OF MAINTENANCE/PROBLEM: Not applicable

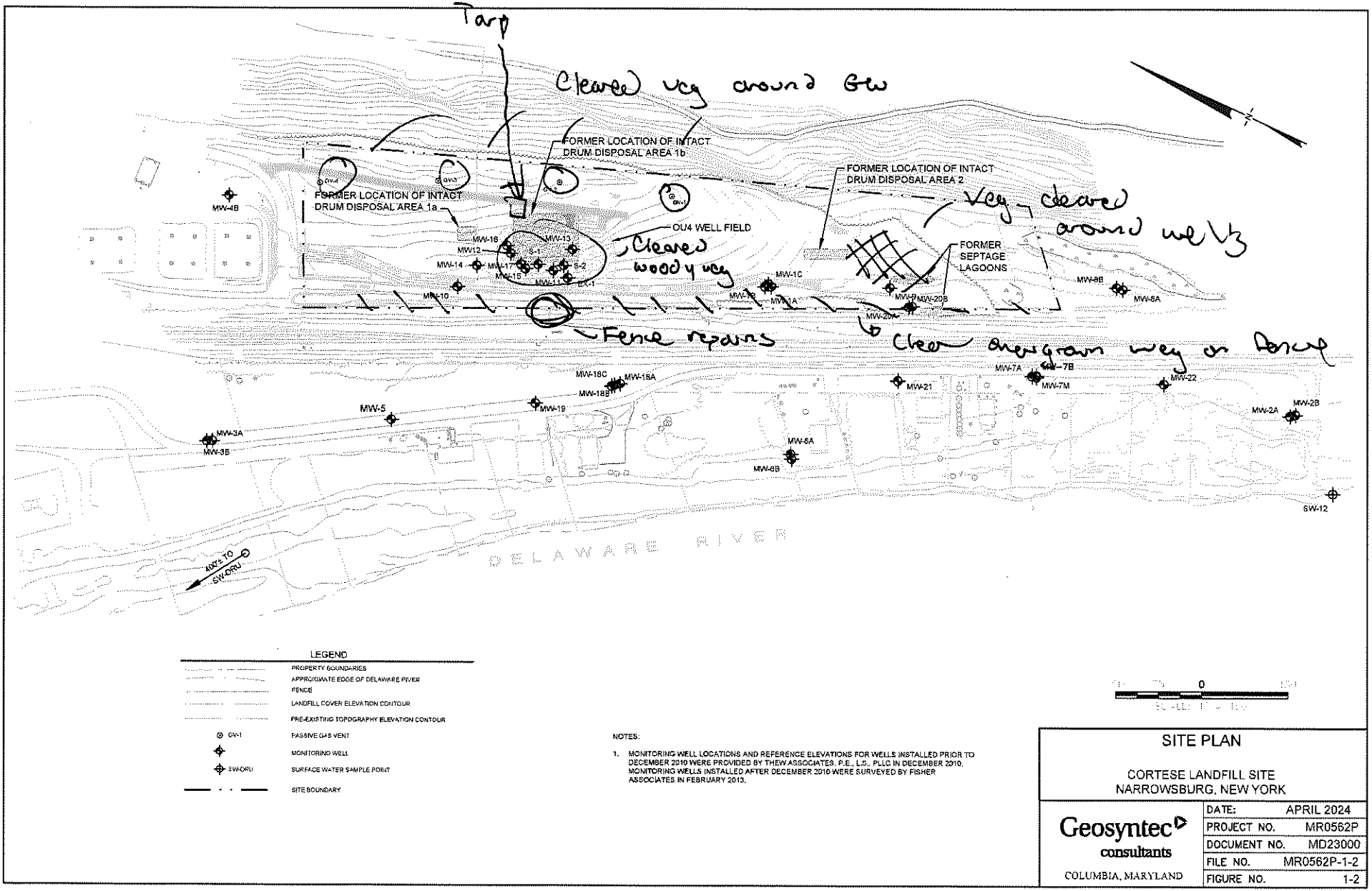
DATE PROBLEM IDENTIFIED: —

MAINTENANCE/REPAIR TAKEN TO RESOLVE PROBLEM (Identify Locations of Maintenance on Site Plan):

See figure of Site maintainance activities performed on 3/25/25

DATE COMPLETED: 3/25/25

INSPECTOR: A. Smith




NOTES:

1. MONITORING WELL LOCATIONS AND REFERENCE ELEVATIONS FOR WELLS INSTALLED PRIOR TO DECEMBER 2010 WERE PROVIDED BY THEW ASSOCIATES, P.E., L.S., PLLC IN DECEMBER 2010. MONITORING WELLS INSTALLED AFTER DECEMBER 2010 WERE SURVEYED BY FISHER ASSOCIATES IN FEBRUARY 2013.

# SITE PLAN

CORTESE LANDFILL SITE
NARROWSBURG, NEW YORK

Geosyntec consultants
COLUMBIA, MARYLAND

| | |
|---|---|
| DATE: | APRIL 2024 |
| PROJECT NO. | MR0562P |
| DOCUMENT NO. | MD23000 |
| FILE NO. | MR0562P-1-2 |
| FIGURE NO. | 1-2 |

P:\CADD\0562-CORTESE\MR0562180\MR0562O-1-2

# GEOSYNTEC CONSULTANTS
## Photographic Record

Geosyntec consultants

| | |
|---|---|
| **Client: Waste Management** | **Project Number: MR0562S** |
| **Site Name: Cortese Landfill** | **Site Location: Narrowsburg, New York** |

| | |
|---|---|
| **Photograph** |  |
| **Date: 3/25/2025 7:35 AM** | |
| **Direction: South** | |
| **Comments: View of remediation system trailer and tarp-covered drum.** | |

| | |
|---|---|
| **Photograph** |  |
| **Date: 3/25/2025 7:35 AM** | |
| **Direction: Northeast** | |
| **Comments: View of OU4 Well Field prior to site maintenance activities.** | |

| GEOSYNTEC CONSULTANTS<br>Photographic Record | Geosyntec consultants |
|---|---|
| **Client: Waste Management** | **Project Number: MR0562S** |
| **Site Name: Cortese Landfill** | **Site Location: Narrowsburg, New York** |

| | |
|---|---|
| **Photograph**<br>**Date: 3/25/2025 7:38 AM**<br>**Direction: West**<br>**Comments: View of contractor performing vegetation clearing at the OU4 Well Field.** |  |

| | |
|---|---|
| **Photograph**<br>**Date: 3/25/2025 8:12 AM**<br>**Direction: Northwest**<br>**Comments: View of western stormwater swale.** |  |

| GEOSYNTEC CONSULTANTS<br>Photographic Record | Geosyntec consultants |
|---|---|
| **Client: Waste Management** | **Project Number: MR0562S** |
| **Site Name: Cortese Landfill** | **Site Location: Narrowsburg, New York** |

| | |
|---|---|
| **Photograph** |  |
| **Date: 3/25/2025 8:15 AM** | |
| **Direction: West** | |
| **Comments: View of damaged western security perimeter fence prior to site maintenance activities.** | |

| | |
|---|---|
| **Photograph** |  |
| **Date: 3/25/2025 1:12 PM** | |
| **Direction: Southeast** | |
| **Comments: View of OU4 Well Field and remediation system trailer after site maintenance clearing.** | |

| GEOSYNTEC CONSULTANTS<br>Photographic Record | Geosyntec consultants |
|---|---|
| **Client: Waste Management** | **Project Number: MR0562S** |
| **Site Name: Cortese Landfill** | **Site Location: Narrowsburg, New York** |

| | |
|---|---|
| **Photograph**<br>**Date: 3/25/2025 1:13 PM**<br>**Direction: East**<br>**Comments: View of OU4 Well Field and remediation system trailer after site maintenance clearing.** |  |

| | |
|---|---|
| **Photograph**<br>**Date: 3/25/2025 1:14 PM**<br>**Direction: South**<br>**Comments: View of gas vent after site maintenance clearing.** |  |

| GEOSYNTEC CONSULTANTS<br>Photographic Record | |
|---|---|
| **Client: Waste Management** | **Project Number: MR0562S** |
| **Site Name: Cortese Landfill** | **Site Location: Narrowsburg, New York** |

| | |
|---|---|
| **Photograph**<br>**Date: 3/25/2025 1:15 PM**<br>**Direction: South**<br>**Comments: View along eastern stormwater swale.** |  |

| | |
|---|---|
| **Photograph**<br>**Date: 3/25/2025 1:17 PM**<br>**Direction: Southeast**<br>**Comments: View of monitoring wells from the southern extent of the site.** |  |

| GEOSYNTEC CONSULTANTS<br>Photographic Record | |
|---|---|
| **Client: Waste Management** | **Project Number: MR0562S** |
| **Site Name: Cortese Landfill** | **Site Location: Narrowsburg, New York** |

| | |
|---|---|
| **Photograph** |  |
| **Date: 3/25/2025 1:19 PM** | |
| **Direction: West** | |
| **Comments: View of western security perimeter fence during site maintenance activities with replaced top bar.** | |

| | |
|---|---|
| **Photograph** |  |
| **Date: 3/25/2025 3:26 PM** | |
| **Direction: West** | |
| **Comments: View of western security fence after site maintenance activities.** | |

| GEOSYNTEC CONSULTANTS<br>Photographic Record | Geosyntec consultants |
|---|---|
| **Client: Waste Management** | **Project Number: MR0562S** |
| **Site Name: Cortese Landfill** | **Site Location: Narrowsburg, New York** |

| | |
|---|---|
| **Photograph** | |
| **Date: 3/25/2025 4:15 PM** | |
| **Direction: South** | |
| **Comments: View of northern security perimeter fence and site entrance.** |  |

# APPENDIX F

# LETTER REQUEST TO TRANSITION TO LONG-TERM MONITORING

Geosyntec consultants

10211 Wincopin Circle, Floor 4
Columbia, Maryland 21044
PH 410.381.4333
FAX 410.381.4499
www.geosyntec.com

4 August 2025

Mr. Mark Granger
Remedial Project Manager - Cortese Landfill Site
Emergency and Remedial Response Division
United States Environmental Protection Agency, Region 2
290 Broadway, 20th Floor
New York, NY 10007-1866

**Subject: Request to Transition to Long-Term Monitoring**
**Cortese Landfill Site, Narrowsburg, New York**

Dear Mr. Mark Granger:

On behalf of the Cortese Landfill PRP Group (the Group), Geosyntec Consultants and its New York affiliate B&B Engineers & Geologists of New York, P.C. (collectively Geosyntec) have prepared this letter requesting a transition from the current performance monitoring program to the long-term monitoring program at the Cortese Landfill Site (the Site). As discussed in the 2024 Annual Monitoring Report, concentrations of volatile organic compounds continued to generally trend downward or remained stable in Operable Unit 4 (OU4) and Operable Unit 3 (OU3) (since discontinuation of active treatment in October 2017), the OU4 active treatment performance standards continue to be achieved, and monitored natural attenuation indicator parameters continue to be detected in the downgradient OU3 area  These factors provide the basis for this request to transition to the long-term monitoring program.

The recommended long-term monitoring program is summarized in **Table 1.** The monitoring locations are shown on **Figure 1**.  A transition to this recommended long-term monitoring program is adequate to monitor the ongoing protectiveness of OU4 and OU3 based on the improvements in groundwater quality detected in the post treatment period (2017 to 2024).

Note that **Table 1** reflects the following revisions compared to the previously-approved OU3 and OU4 monitoring programs included in **Attachment A**:

- Complete the OU4 monitoring event in the fall to coincide with the OU3 event (to facilitate one monitoring mobilization per year);
- Add monitoring wells MW-1C and MW-10 to the OU4 long-term monitoring program (the addition of these locations is recommended to monitor the ongoing protectiveness of OU4 at these near-source wells);

- Delete surface water monitoring (because no exceedances have been detected in over a decade).

We would appreciate your response to this request by 1 September 2025. Should the recommended transition to long-term monitoring be approved, an addendum to the Operation, Maintenance, and Monitoring Plan will be prepared to reflect the updated monitoring program. If you have any questions regarding this letter, please do not hesitate to contact the undersigned at 410.381.4333.

Best Regards,



Theodore J. Wilson, P.G.
Project Geologist



Robert M. Glazier, P.G.
Senior Consultant

Attachments:

**Table 1** – Proposed Long-Term Monitoring Program
**Figure 1** – Site Plan
**Attachment A –** Previously-Approved Monitoring Programs

cc: NYSDEC (1 copy)
Cortese Defendants (1 copy)

**TABLE 1**
**RECOMMENDED LONG-TERM MONITORING PROGRAM**

**Cortese Landfill Site**
**Narrowsburg, NY**

| Location ID | Sampling Event | Parameter | | | | |
|---|---|---|---|---|---|---|
| | | VOCs [1] | SVOCs [2] | Metals [3] | Electron Donors/Acceptors [4] | TPH [5] |
| ***Operable Unit 4 - Source Area Monitoring Wells*** | | | | | | |
| MW-1B | Fall | X | X | X | X | X |
| MW-1C | | X | X | X | X | X |
| MW-10 | | X | X | X | X | X |
| EX-1 | | X | X | X | X | X |
| ***Operable Unit 3 - Downgradient Monitoring Wells*** | | | | | | |
| MW-6A | Fall | X | X | X | X | |
| MW-6B | | X | X | X | X | |
| MW-7M | | X | X | X | X | |
| MW-18B | | X | X | X | X | |
| MW-18C | | X | X | X | X | |
| MW-19 | | X | X | X | X | |
| MW-20A | | X | X | X | X | |
| MW-20B | | X | X | X | X | |
| MW-21 | | X | X | X | X | |
| MW-22 | | X | X | X | X | |

**Notes:**

Monitoring in performed as specified in the OU3 Monitored Natural Attenuation Plan (May 2013), Quality Assurance Project Plan (QAPP; May 2013), and OU4 Operation, Maintenance, and Monitoring Plan (July, 2014).

SVOCs - Semivolatile Organic Compounds listed in worksheet #15 of QAPP

TSS - Total Suspended Solids

VOCs - Volatile Organic Compounds listed in worksheet #15 of QAPP

TPH - Total Petroleum Hyrdocarbons

All samples were unfiltered

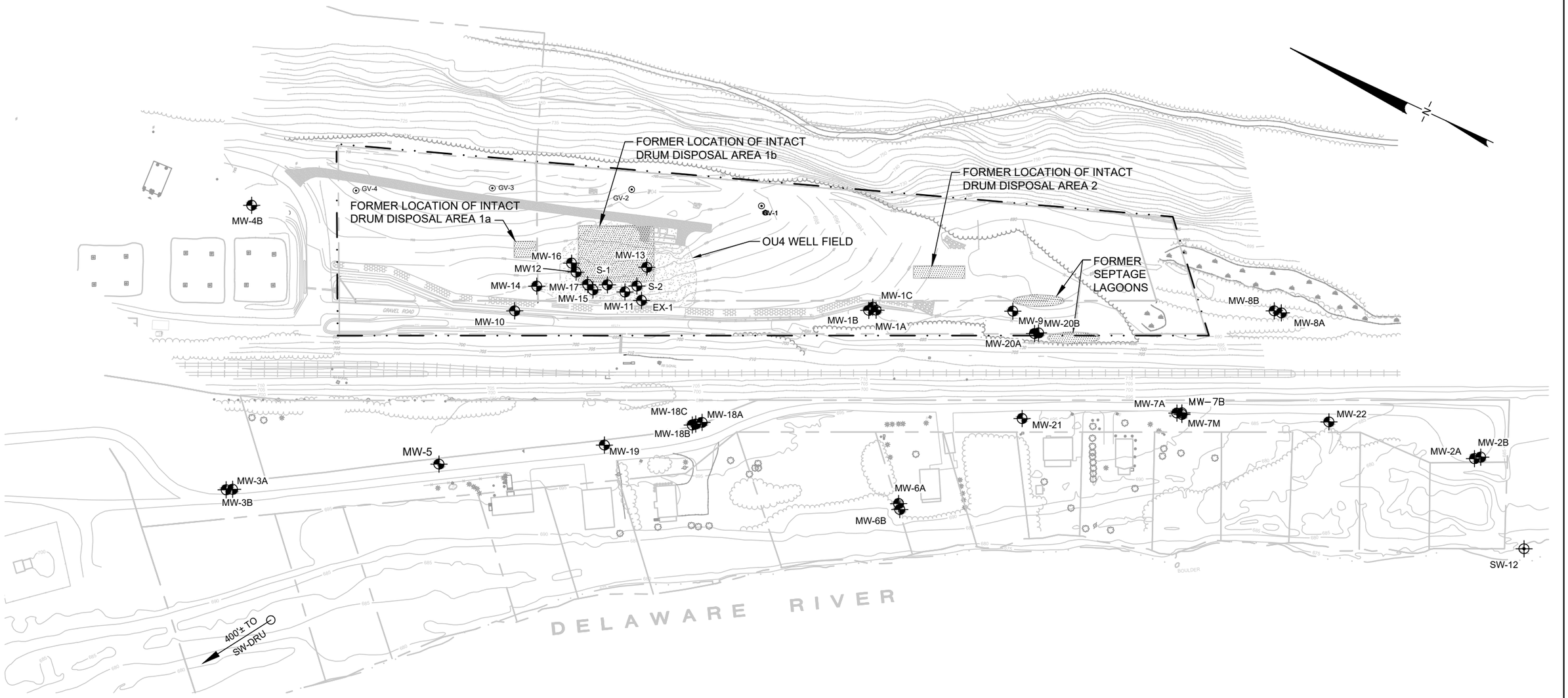
[1] Analysis of VOCs included dichlorobenzene isomers

[2] Analysis of SVOCs included benzoic acid and 1,4-dioxane

[3] Metals analyzed were arsenic, iron, and manganese

[4] Electron Donors/Acceptors analyzed were alkalinity, sulfate, nitrate+nitrite, ammonia, and total organic carbon

[5] Analysis of TPH included TPH-Gasoline Range Orgranics (C6-C10) and TPH-Diesel Range Organics (C10-C28)




LEGEND

- PROPERTY BOUNDARIES
- APPROXIMATE EDGE OF DELAWARE RIVER
- FENCE
- LANDFILL COVER ELEVATION CONTOUR
- PRE-EXISTING TOPOGRAPHY ELEVATION CONTOUR
- GV-1 PASSIVE GAS VENT
- MONITORING WELL
- SW-DRU SURFACE WATER SAMPLE POINT
- SITE BOUNDARY

NOTES:

1. MONITORING WELL LOCATIONS AND REFERENCE ELEVATIONS FOR WELLS INSTALLED PRIOR TO DECEMBER 2010 WERE PROVIDED BY THEW ASSOCIATES, P.E., L.S., PLLC IN DECEMBER 2010. MONITORING WELLS INSTALLED AFTER DECEMBER 2010 WERE SURVEYED BY FISHER ASSOCIATES IN FEBRUARY 2013.

150 75 0 150

SCALE: 1" = 150'

# SITE PLAN

CORTESE LANDFILL SITE
NARROWSBURG, NEW YORK

Geosyntec consultants
COLUMBIA, MARYLAND

| | |
|---|---|
| DATE: | AUGUST 2025 |
| PROJECT NO. | MR0562S |
| DOCUMENT NO. | MD25033 |
| FILE NO. | MR0562S-1 |
| FIGURE NO. | 1 |

P:\CADD\0562-CORTESE\05621800\MR0562O-1-2

# ATTACHMENT A

# TABLE 4
# MNA MONITORING PROGRAM
# DURING SOURCE AREA TREATMENT[1]

**Cortese Landfill Site**
**Narrowsburg, New York**

| Location ID | Well Construction | | Sampling Event | TCL VOCs | Appendix 2 SVOCs[2] | Metals | Electron Donors/Acceptors[3] | TSS |
|---|---|---|---|---|---|---|---|---|
| | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | | | | | | |
| Groundwater Monitoring Locations | | | | | | | | |
| MW-6B | 16.4 | 31.9 | Spring | X | X | X | X | |
| | | | Fall | X | | X | X | |
| MW-6A | 70.0 | 80.0 | Spring | X | X | X | X | |
| | | | Fall | X | | X | X | |
| MW-7B[4] | 11.2 | 21.2 | Spring | X | X | X | X | |
| | | | Fall | | | | | |
| MW-7A[4] | 88.2 | 98.2 | Spring | X | X | X | X | |
| | | | Fall | | | | | |
| MW-7M[4] | 50 | 60 | Spring | X | X | X | X | |
| | | | Fall | X | | X | X | |
| MW-18A | 80 | 90 | Spring | X | X | X | X | |
| | | | Fall | | | | | |
| MW-18B | 45 | 55 | Spring | X | X | X | X | |
| | | | Fall | X | | X | X | |
| MW-18C | 20 | 30 | Spring | X | X | X | X | |
| | | | Fall | X | | X | X | |
| MW-19[5] | 45 | 55 | Spring | X | X | X | X | |
| | | | Fall | X | | X | X | |
| MW-20B | 22 | 32 | Spring | X | X | X | X | |
| | | | Fall | X | | X | X | |
| MW-20A | 55 | 65 | Spring | X | X | X | X | |
| | | | Fall | X | | X | X | |
| MW-21 | 53 | 63 | Spring | X | X | X | X | |
| | | | Fall | X | | X | X | |
| MW-22[5] | 40 | 50 | Spring | X | X | X | X | |
| | | | Fall | X | | X | X | |
| Surface Water Monitoring Locations[6] | | | | | | | | |
| SW-12 | Not Applicable | | Fall | X | | X | | X |
| SW-DRU | Not Applicable | | Fall | X | | X | | X |

**Notes:**

1. These monitoring locations and parameters are subject to reduction if appropriate based upon actual monitoring data, if approved by USEPA.
2. SVOCs will only be monitored annually because they are less mobile and concentration changes are expected to be slower than other parameters.
3. Electron donors/acceptors include alkalinity, sulfate, ammonia, nitrate+nitrite, and total organic carbon. All sampling events will also include collection of field parameters (i.e., pH, dissolved oxygen, oxidation-reduction potential).
4. MW-7M has higher concentrations than 7A and is therefore sampled more frequently.
   MW-7A has historically been below cleanup levels and will be monitored annually for changes that might occur due to source treatment.
   MW-7B is usually dry except for the Spring.
   MW-18A is a deep well that has very low VOCs and will hence be monitored annually for changes that might occur due to source treatment.
5. Conditional sidegradient wells MW-2B and MW-5 might be monitored if results for wells MW-19 and MW-22 are greater than five times ARARs.
6. Constituents have historically only been detected during the fall river base flow event.

TCL - target compound list
VOCs - volatile organic compounds
SVOCs - semi-volatile organic compounds
TSS - total suspended solids

**TABLE 5**
**MNA MONITORING PROGRAM**
**AFTER SOURCE AREA TREATMENT[1]**

**Cortese Landfill Site**
**Narrowsburg, New York**

| Location ID | Well Construction | | Sampling Event | TCL VOCs | Appendix 2 SVOCs[2] | Metals | Electron Donors/Acceptors [3] | TSS | Methane, Ethane, Ethene [4] |
|---|---|---|---|---|---|---|---|---|---|
| | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | | | | | | | |
| Groundwater Monitoring Locations | | | | | | | | | |
| MW-6B | 16.4 | 31.9 | Fall | X | X | X | X | | |
| MW-6A | 70.0 | 80.0 | Fall | X | X | X | X | | |
| MW-7M [5] | 50 | 60 | Fall | X | X | X | X | | |
| MW-18B [6] | 45 | 55 | Fall | X | X | X | X | | |
| MW-18C [6] | 20 | 30 | Fall | X | X | X | X | | |
| MW-19 [7] | 45 | 55 | Fall | X | X | X | X | | |
| MW-20B | 22 | 32 | Fall | X | X | X | X | | |
| MW-20A | 55 | 65 | Fall | X | X | X | X | | |
| MW-21 | 53 | 63 | Fall | X | X | X | X | | |
| MW-22 [7] | 40 | 50 | Fall | X | X | X | X | | |
| Surface Water Monitoring Locations [8] | | | | | | | | | |
| SW-12 | Not Applicable | | Fall | X | | X | | X | |
| SW-DRU | Not Applicable | | Fall | X | | X | | X | |

**Notes:**
1. These monitoring locations and parameters are subject to reduction if appropriate based upon actual monitoring data, if approved by USEPA.
2. SVOCs will only be monitored annually because they are less mobile and concentration changes are expected to be slower than other parameters.
3. Electron donors/acceptors include alkalinity, sulfate, ammonia, nitrate+nitrite, and total organic carbon. All sampling events will also include collection of field parameters (i.e., pH, dissolved oxygen, oxidation-reduction potential).
4. Methane, ethene, and ethene will only be analyzed if chlorinated ethanes/ethenes persist to this stage in the remedy and reductive dechlorination processes are being relied upon.
5. MW-7M has higher concentrations than 7A and therefore will be monitored after source treatment is complete.
   MW-7A has historically been below cleanup levels and will be checked during verification monitoring.
   MW-7B is usually dry except for the Spring and will be checked during verification monitoring.
6. MW-18C and MW-18B have higher concentrations than MW-18A and will therefore be monitored after source area treatment.
7. Conditional sidegradient wells MW-2B and MW-5 will be monitored if concentrations at MW-19 and MW-22 are greater than five times ARARs.
   The need for MW-2B and MW-5 will be determined by baseline analytical results for MW-19 and MW-22.
8. Constituents historically have only been detected during the fall river base flow event.

TCL - target compound list
VOCs - volatile organic compounds
SVOCs - semi-volatile organic compounds
TSS - total suspended solids

# TABLE 12
## SOURCE AREA GMP
## STAGE B - DURING SOURCE AREA TRANSITIONS [1]

**Cortese Landfill Site**
**Narrowsburg, New York**

| Location ID | Well Construction | | Lithologic Unit | Sampling Event | TCL VOCs | TCL SVOCs[2] | TPH [3] | Metals | Electron Donors/Acceptors [4] |
|---|---|---|---|---|---|---|---|---|---|
| | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | | | | | | | |
| MW-1A [5] | 63.7 | 73.7 | Lower Sand and Gravel | Spring | X | X | X | X | X |
| | | | | Summer | | | | | |
| | | | | Fall | | | | | |
| MW-1B | 28.1 | 43.1 | Upper Sand and Gravel | Spring | X | X | X | X | X |
| | | | | Summer | X | | | X | X |
| | | | | Fall | X | | X | X | X |
| MW-1C | 10.5 | 25.5 | Upper Sand and Gravel | Spring | X | X | X | X | X |
| | | | | Summer | X | | | X | X |
| | | | | Fall | X | | X | X | X |
| EX-1 [7] | 28 | 33 | Upper Sand and Gravel | Spring | X | X | X | X | X |
| | | | | Summer | X | | | X | X |
| | | | | Fall | X | | X | X | X |
| MW-10 [6] | 13.8 | 29.3 | Upper Sand and Gravel | Spring | X | X | X | X | X |
| | | | | Summer | X | | | X | X |
| | | | | Fall | X | | X | X | X |
| MW-11 [4] | 60.5 | 70.5 | Intermediate Silty Sand | Spring | X | X | X | X | X |
| | | | | Summer | | | | | |
| | | | | Fall | | | | | |

**Notes:**

1. Stage B is intended to cover the period of time following start of the source area treatment and following subsequent changes in operation of the source area treatment that might disrupt quasi-steady state conditions.
2. SVOCs will be monitored at a lower frequency because they are less mobile and concentration changes are expected to be slower than other parameters.
3. Total Petroleum Hydrocarbons (TPH) include TPH-Gasoline Range Organics and TPH-Diesel Range Organics.
4. Electron donors/acceptors include alkalinity, sulfate, ammonia, nitrate+nitrite, and total organic carbon. All sampling events will also include collection of field parameters (i.e., pH, dissolved oxygen, oxidation-reduction potential).
5. MW-1A and MW-11 are screened below the treatment areas, have historically had low COC concentrations, and may be less affected by the source area treatment.
6. MW-10 is slightly sidegradient to the former IDDA 1b source area, has historically had low COC cocentrations, and may be less affected by the source area treatment.
7. EX-1 will be monitored for VOCs on a monthly basis for the first six months following intial startup of air sparging operations.

GMP - Groundwater Monitoring Program
TCL - target compound list
VOCs - volatile organic compounds
SVOCs - semi-volatile organic compounds
TPH- Total Petroleum Hydrocarbons
TBD - to be determined
TSS - total suspended solids

**TABLE 14**
**SOURCE AREA GMP**
**STAGE D - AFTER SOURCE AREA STABILIZATION[1]**

**Cortese Landfill Site**
**Narrowsburg, New York**

| Location ID | Well Construction | | Lithologic Unit | Sampling Event | TCL VOCs | TCL SVOCs | Metals | Electron Donors/Acceptors [2] | Biological Marker [3] | Methane, Ethane, Ethene [4] |
|---|---|---|---|---|---|---|---|---|---|---|
| | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | | | | | | | | |
| MW-1B | 28.1 | 43.1 | Upper Sand and Gravel | Spring | X | X | X | X | | |
| | | | | Summer | | | | | | |
| | | | | Fall | | | | | | |
| EX-1 | 88.2 | 98.2 | Upper Sand and Gravel | Spring | X | X | X | X | | |
| | | | | Summer | | | | | | |
| | | | | Fall | | | | | | |

**Notes:**
1. Stage D is intended to cover the period of time following source area active treatment and stabilization that is expected to have steady declining concentrations.
2. Electron donors/acceptors include alkalinity, sulfate, ammonia, nitrate+nitrite, and total organic carbon. All sampling events will also include collection of field parameters (i.e., pH, dissolved oxygen, oxidation-reduction potential).
3. Bilogical marker used, if needed, depends upon the biodegradation pathway that is necessary for the compounds that remain (aerobic, anaerobic, etc.) The biomarker test to be used (if needed) will be selected at that time based on the groundwater monitoring data.
4. Methane, ethene, and ethane will only be analyzed if chlorinated ethene/ethanes persist to this stage in the remedy and reductive dechlorination processes are being relied upon.

GMP - Groundwater Monitoring Program
TCL - target compound list
VOCs - volatile organic compounds
SVOCs - semi-volatile organic compounds
TBD - to be determined
TSS - total suspended solids