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September 2021
ANNUAL/SEMI-ANNUAL GROUNDWATER MONITORING REPORT
NIAGARA WIND POWER, LLC
STEEL WINDS I FACILITY (Site No. C915205)
LACKAWANNA, NEW YORK

November 2021 (Revised December 2021)
File No. 03.0033579.14

PREPARED FOR:
Niagara Wind Power, LLC
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November 10, 2021, Revised December 8, 2021
File No. 03.0033579.14

Mr. Jonathan Kirby
Brookfield Renewable
c/o Niagara Wind Power, LLC
200 Liberty Street, 14th Floor
New York, NY 10281

Re: September 2021 Annual/Semi-Annual Groundwater Monitoring Report (Revised)
Steel Winds I Site (Site No. C915205)
Lackawanna, NY

Dear Mr. Kirby:

GZA GeoEnvironmental (GZA) is pleased to submit this annual/semi-annual groundwater monitoring report to Niagara Wind Power, LLC (NWP) summarizing the analytical results of the groundwater sampling event conducted in September 2021 at the above referenced Site. The objective of the sampling event was to collect and analyze groundwater samples from the on-site monitoring wells in accordance with the Site Management Plan, dated September 2007, prepared by Benchmark Environmental Engineering and Science, PLLC (Benchmark) and approved by the New York State Department of Environmental Conservation (NYSDEC).

Should you have any questions or require additional information following your review, please contact Ed Summerly at (401) 427-2707.

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

Daniel J. Troy, P.E.
Senior Project Manager

Richard A. Carlone, P.E
Consultant Reviewer

Edward A. Summerly, P.G.
Principal / District Office Manager

cc: Matt Carson (Brookfield Renewable)
Cris Basden (Brookfield Renewable)
Megan Kuczka (NYSDEC)

Attachments: Report

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1.00 INTRODUCTION

In accordance with our February 19, 2021 proposal, GZA GeoEnvironmental, Inc. (GZA) collected and analyzed groundwater samples at the nine (9) annual site-wide groundwater monitoring well locations (designated the Long-Term Groundwater Monitoring Plan (LTGWM)) and the six (6) semi-annual WT-1 vicinity groundwater monitoring well locations at the Steel Winds I facility located in Lackawanna, New York (Site). A Locus Plan and Site Plan are attached as **Figures 1** and **2**, respectively.

1.10 BACKGROUND AND SITE HISTORY

Tecumseh Redevelopment, Inc. (Tecumseh) owns approximately 1,100 acres of land at 1951 Hamburg Turnpike, as shown on attached **Figure 1**. The property was formerly used for the production of steel, coke and related products by Bethlehem Steel Corporation (BSC). Steel production on the Tecumseh property was discontinued in 1983 and the coke ovens ceased activity in 2000. Tecumseh acquired the property, along with other BSC assets, out of bankruptcy in 2003.

In September 2006, BQ Energy entered into a long-term lease agreement with Tecumseh to construct and operate wind turbines and supporting power generation equipment and infrastructure on an approximately 29-acre parcel of the Tecumseh property, referred to as the Steel Winds I Site. BQ Energy and the NYSDEC also entered into a Brownfield Cleanup Agreement for the Steel Winds Site. The Site is wholly contained within the Slag Fill Area (SFA) Zones 3 and 4 of the Tecumseh property bordered by Lake Erie to the west, Smoke Creek to the south, and former industrial lands of BSC to the north and east. Niagara Wind Power, LLC (NWP) an affiliate of Brookfield Renewable, operates the eight wind turbines installed at the Site. In accordance with an October 30, 2020 letter to NYSDEC, Niagara Wind Power, LLC assumed the Remedial Party status for the Site.

The Brownfield Cleanup Program (BCP) was successful in achieving the remedial objectives for the Steel Winds Site. The Site Management Plan (SMP) and Final Engineering Report (FER) were approved by NYSDEC in December 2007. NYSDEC issued a Certificate of Completion (COC) for the Site on December 18, 2007.

The remedial activities conducted at the Site include:

- Excavation and off-site disposal of impacted slag fill from the eight wind turbine foundations and interconnecting utility trenches;
- In-situ enhanced biodegradation of residual volatile organic compounds (VOCs), including benzene, toluene, total xylenes, and naphthalene, using oxygen release compound (ORC®) socks within the saturated soil and groundwater in the vicinity of monitoring well WT-01 and associated groundwater monitoring; and,
- Completion of a soil cover system (cap).

As a requirement of the SMP, LTGWM is being performed at nine (9) wells across the Site. Additional groundwater monitoring was also performed to monitor the effectiveness of the ORC in-situ treatment in the vicinity of wind turbine WT-01. During 2011, both the LTGWM and WT-01 vicinity groundwater monitoring programs were performed on an annual basis and were done on July 13 and 14, 2011. The five ORC in-situ treatment wells were to be monitored semi-annually, in accordance with the SMP. However, only one ORC monitoring event (on May 4, 2011) was conducted because of the ineffectiveness of the remedy.

An ***Operation, Monitoring and Maintenance Request for Modification*** report, dated November 2011, was submitted to NYSDEC by Benchmark. This report proposed ceasing operation of ORC® groundwater remedy for the WT-01 Vicinity because the remedy was not effective in reducing VOC concentrations, due primarily to the geochemical conditions (i.e., high baseline chemical oxygen demand, highly negative oxidation reduction potential and high pH) of the Site. NYSDEC provided comments to this report on April 10, 2012 and GZA provided a response letter on May 9, 2012. Based on this letter and correspondence with NYSDEC, the ORC® remedy has been terminated (i.e., the ORC socks have been removed from the five treatment wells and disposed of as a solid waste).

In accordance with a letter from GZA to NYSDEC, dated June 22, 2012[1], semi-annual/annual groundwater monitoring will continue at the Site until a Technical Impracticability Waiver (TI Waiver) for groundwater treatment at the Site is submitted to, and approved by NYSDEC.

On September 30, 2013, GZA submitted a ***Technical Impracticability Waiver Supplemental Field Studies Work Plan*** for the Site, detailing sampling, laboratory analysis, data evaluation and reporting to be conducted in support of a TI Waiver request for the Site. This *Work Plan* was approved by NYSDEC on February 24, 2014. Sampling and analysis described in the *Work Plan* was conducted by GZA in summer 2014 and a TI Waiver application was submitted to NYSDEC on November 5, 2014, with a supplemental ***Endangered Species Review*** letter submitted to NYSDEC on January 28, 2015. Based on the remedial evaluation presented in the application, it is GZA's opinion that active remediation is not warranted or feasible, would not result in significant benefit to the environment relative to the cost, and is technically impracticable. The application recommended limited additional sampling to evaluate risk to ecological receptors. NYSDEC verbally approved the additional recommended field work on April 27, 2015. GZA submitted a *Work Plan* to NYSDEC on August 5, 2015 describing the proposed additional field work, which was implemented in September 2015. The ***TI Waiver Supplemental Report*** was submitted to NYSDEC on April 24, 2018.

Due to the length of cold days experienced during the winter of 2014-2015 the semi-annual sampling event, originally scheduled for January 2015, was not able to be completed until March 2015. In order to reduce negative impacts and delays associated from freezing weather conditions, NYSDEC approved rescheduling the future semi-annual and annual sampling events to occur during the months of March and September, respectively.

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[1]GZA's June 22, 2012 letter was prepared in response to NYSDEC's comments on GZA's May 9, 2012 Responses to NYSDEC's April 10, 2012 Comments on the November 2011 *Operation, Monitoring and Maintenance Request for Modification*, prepared by Benchmark.

2.00 PURPOSE AND SCOPE OF WORK

The purpose of the September 2021 annual/semi-annual sampling event was to collect groundwater samples from the nine (9) annual site-wide and six (6) semi-annual WT-1 vicinity groundwater monitoring wells, respectively, in accordance with the routine monitoring protocol described in the September 2007 SMP. To accomplish this, the following activities were completed by GZA:

- Collected one (1) groundwater sample from each annual/semi-annual monitoring well location for laboratory analysis (conducted by Alpha Analytical of Westborough, Massachusetts) in accordance with the analytical testing summary provided in **Table 1**. Test parameters included the following:

    - STARS list VOCs via EPA Method 8260B;
    - Base-Neutral semi-volatile organic compounds (SVOCs) via EPA Method 8270C; and
    - Arsenic, barium, chromium, and/or manganese via EPA Method 6010B (select annual groundwater monitoring wells only).

- Prepared this report, which summarizes the data collected during each sampling event and compared the current results to historic data and assessed contaminant concentration trends.

This report presents GZA's field observations, results, and opinions and is subject to the limitations presented in **Appendix A** and modifications if subsequent information is developed by GZA or any other party.

3.00 FIELD STUDIES

This section describes the field studies conducted as part of GZA's groundwater annual/semi-annual sampling event.

3.10 GROUNDWATER DATA COLLECTION

GZA collected groundwater samples from the nine (9) annual Site-wide monitoring wells (MWN-01, MWN-01B, MWN-02, MWN-02B, MWN-02D, MWN-03, MWN-03B, MWN-03D, and MWN-04), and six (6) WT-1 vicinity semi-annual monitoring wells (MWN-01, MWN-01B, WT1-02, WT1-04, WT1-05, and BCP-ORC-1). Samples were collected on September 2 and 3, 2021. Note, when the two monitoring programs included the same wells, only one sample was collected, and that analysis was used for both programs.

The following tables show the volume of water purged in gallons and the number of well volumes removed from the respective well after a constant head was established. In general, groundwater purge rates were 500(±) millimeter per minute (ml/min). Due to complications experienced with the downhole pump equipment in MWN-03D, alternative sampling methods using a dedicated bailer to remove one well volume and for sample collection were employed. The groundwater samples collected using this method were observed to have an increased turbidity which required laboratory filtration prior to inorganic analysis. Well development forms for each monitoring well sampled are included in **Appendix D.**

Annual Site-Wide Monitoring Well ID	Cumulative Volume Purged (gallons)	Well Volumes (#)
MWN-01	8	1.6
MWN-01B	8	3.0
MWN-02	4	1.0
MWN-02B	6	1.3
MWN-02D	6	0.7
MWN-03	6	0.9
MWN-03B	1.5	0.3
MWN-03D	13	1.0
MWN-04	3	0.6

WT-1 Vicinity Semi-Annual Monitoring Well ID	Cumulative Volume Purged (gallons)	Well Volumes (#)
MWN-01	8	1.6
MWN-01B	8	3.0
WT1-02	6	0.9
WT1-04	6	3.0
WT1-05	15	8.3
BCP-ORC-1	8	4.0

Note: wells highlighted in yellow are included in both programs.

As part of the Annual/Semi-annual groundwater monitoring round, static groundwater level measurements were made from top of riser of the monitoring wells listed in the table below prior to purging. Monitoring point elevation data was available from previous groundwater monitoring reports completed by Benchmark, and/or field survey work conducted by GZA. From this data, groundwater flow directions were estimated and are shown on **Figure 2**. Based on the available information, groundwater flow is generally in a westerly direction towards Lake Erie or south toward Smoke Creek (in the immediate vicinity of Smoke Creek only).

Monitoring Well Location	Top of Riser Elevation (ft.)	Groundwater Depth (ft.)	Groundwater Elevation (ft.)
MWN-01	585.14	11.59	573.55
MWN-01B	587.03	15.50	571.53
MWN-02	601.01	27.70	573.31
MWN-02B	601.28	28.05	573.23
MWN-02D	602.95	28.83	574.12
MWN-03	611.96	38.89	573.07
MWN-03B	612.29	39.45	572.84
MWN-03D	613.51	41.70	571.81
MWN-04	623.45	50.61	572.84
WT1-02	600.78	26.91	573.87
WT1-04	586.45	12.91	573.54
WT1-05	584.41	11.85	572.56
BCP-ORC-1	591.97	18.30	573.67

4.00 ANALYTICAL LABORATORY TESTING

Thirteen (13) annual/semi-annual groundwater samples were submitted for analytical testing as part of the September 2021 sampling event. The samples were packed in an ice-filled cooler and, following chain-of-custody procedures, sent to Alpha Analytical for analysis. **Table 1** presents a summary of the samples collected and the analyses completed. As noted above, the sample from MWN-03D required laboratory filtering prior to analysis due to elevated turbidity and samples from MWN-01 and MWN-01B were included for both semi-annual and annual monitoring programs.

5.00 ANALYTICAL TEST RESULTS

A discussion of the laboratory results for the groundwater samples is presented below. The laboratory reports are provided in **Appendix B** and the analytical test results are summarized on **Tables 2 and 3**.

The analytical test results for the groundwater samples were compared to NYSDEC Class GA criteria presented in the *Division of Water Technical and Operational Guidance Series* (TOGS 1.1.1), dated October 1993, revised June 1998, errata January 1999 and amended April 2000.

The analytical data generated as part of this sampling event has also been provided to NYSDEC electronically for their Environmental Information Management System (EIMS). The data was provided in a standardized electronic data deliverable (EDD) format that uses the database software application EQuIS™ (EQuIS) from EarthSoft® Inc. The laboratory data and required information were imported into the EQuIS Data Processor (EDP) and submitted to NYSDEC on October 27, 2021.

5.10 ANNUAL SITE-WIDE MONITORING WELLS

- MWN-01 (screen depth: 9.2' - 19.2'): Eight (8) VOCs were detected above method reporting limits of which five (5) exceeded their respective NYSDEC Class GA criteria and guidance values, as follows.

    - Benzene at 14 parts per billion (ppb);
    - m,p-Xylene at 8.7 ppb;
    - o-Xylene at 6.5 ppb;
    - Total Xylene at 15.2 ppb; and

    Naphthalene was detected as a VOC at a concentration of 270 ppb, which exceeds its guidance value of 10 ppb.

    Fourteen (14) SVOCs were detected above their method reporting limits of which four (4) exceeded their respective NYSDEC Class GA criteria and guidance values, as follows.

    - Naphthalene at 96.2 ppb;
    - Phenanthrene at 71 ppb;
    - Biphenyl at 5.85 ppb; and
    - Chrysene at 0.216 ppb (estimated value, i.e., J detect).

- MWN-01B (screen depth: 22.2' - 32.2'): Seven (7) VOCs were detected above method reporting limits, of which seven (7) exceeded their respective NYSDEC Class GA criteria and guidance values, as follows.

    - Benzene at 55 ppb;
    - Toluene at 19 ppb (estimated value, i.e., J detect);
    - m,p-Xylene at 12 ppb (estimated value, i.e., J detect);
    - o-Xylene at 9.0 ppb (estimated value, i.e., J detect);
    - Total Xylene at 21 ppb; and
    - 1,2,4-Trimethylbenzene at 7.1 ppb (estimated value, i.e., J detect).

    Naphthalene was detected at a concentration of 1,500 ppb, which exceeds its guidance value of 10 ppb.

    Sixteen (16) SVOCs were detected above method reporting limits of which seven (7) exceeded their respective NYSDEC Class GA criteria and guidance values, as follows

    - Naphthalene at 962 ppb;
    - Phenanthrene at 61.9 ppb;
    - Biphenyl at 7.45 ppb;
    - Benzo [a] Anthracene at 0.461 ppb (estimated value, i.e., J detect);
    - Benzo [b] Fluoranthene at 0.105 ppb (estimated value, i.e., J detect);
    - Benzo [a] Pyrene at 0.072 ppb (estimated value, i.e., J detect); and
    - Chrysene at 0.256 ppb (estimated value, i.e., J detect).

- MWN-02 (screen depth: 23.6' - 33.6'): Eight (8) VOCs were detected above method reporting limits of which two (2) exceeded their respective NYSDEC Class GA criteria and guidance values, as follows.
    - Benzene at 5.1 ppb.

  Naphthalene was detected at a concentration of 20 ppb, which exceeds its guidance value of 10 ppb.

  Thirteen (13) SVOCs were detected above method reporting limits, but all below their respective NYSDEC Class GA criteria or guidance values.

- MWN-02B (screen depth: 46.3' - 56.3'): Eight (8) VOCs were detected above method reporting limits of which six (6) exceeded their respective NYSDEC Class GA criteria and guidance values, as follows.
    - Benzene at 61 ppb;
    - Toluene at 11 ppb;
    - m,p-Xylene at 9.2 ppb;
    - o-Xylene at 13 ppb; and
    - Total Xylene at 22.2 ppb.

  Naphthalene was detected at a concentration of 280 ppb, which exceeds its guidance value of 10 ppb.

  Fourteen (14) SVOCs were detected above method reporting limits, but below their respective NYSDEC Class GA criteria or guidance values, except for Naphthalene. Naphthalene was detected at a concentration of 183 ppb, which exceeds its guidance value of 10 ppb.

  One (1) metal, arsenic, was detected at a concentration of 27.68 ppb, which exceeds its Class GA criteria of 25 ppb.

- MWN-02D (screen depth: 74.3' - 79.3'): Three (3) metals were detected above method reporting limits, but below their respective NYSDEC Class GA criteria.

- MWN-03 (screen depth: 39.2' - 49.2'): Seven (7) VOCs were detected above method reporting limits of which two (2) exceeded their respective NYSDEC Class GA criteria and guidance value, as follows.
    - Benzene at 7.1 ppb.

  Naphthalene was detected at a concentration of 19 ppb, which exceeds its guidance value of 10 ppb.

  Thirteen (13) SVOCs were detected above method reporting limits, but below their respective NYSDEC Class GA criteria or guidance values, except for Naphthalene. Naphthalene was detected at a concentration of 11.2 ppb, which exceeds its guidance value of 10 ppb.

- MWN-03B (screen depth: 60.7' - 70.7'): Four (4) metals were detected above method reporting limits of which three (3) exceeded their respective NYSDEC Class GA criteria, as follows.

    - Arsenic at 86.97 ppb;
    - Barium at 1,049 ppb; and
    - Manganese at 400.2 ppb.

- MWN-03D (screen depth: 111.3' - 121.3'): No VOCs were detected above method reporting limits. Four (4) SVOCs were detected above method reporting limits of which one (1) exceeded its respective NYSDEC Class GA criteria, as follows.

    - bis(2-Ethylhexyl)Phthalate at 7.15 ppb.

    Two (2) metals were detected above method reporting limits of which one (1) exceeded its respective NYSDEC Class GA criteria, as follows.

    - Barium at 1,318 ppb.

    Note: Monitoring well MWN-03D was unable to be low-flow sampled with a submersible pump and the sample was collected via bailing. Due to high turbidity resulting from the sampling technique, metal samples were filtered using a 0.45-micron filter by the laboratory.

- MWN-04 (screen depth: 48.5' - 58.5'): One (1) SVOCs was detected above method reporting limits for this sample, but below the respective NYSDEC Class GA guidance value.

In general, contaminant concentrations were consistent with historical data collected during previous sampling events completed at the Site. A more detailed discussion, including trend analysis, is provided in Section 6.00 of this report. Bis(2-Ethylhexyl)Phthalate was detected in MWN-03D at 44.9 ug/l in 2020 and was significantly lower in 2021 (7.15 ug/l) and this trend will continue to be evaluated.

5.20 SEMI-ANNUAL WT-1 VICINITY MONITORING WELLS

Monitoring well locations MWN-01 and MWN-01B are included in both annual and semi-annual sampling schedules. The analytical results for these monitoring locations are discussed above in Section 5.10. Results from the remaining semi-annual wells are discussed below.

- WT1-02 (screen depth: 27.8' - 37.8'): Eight (8) VOCs were detected above method reporting limits of which two (2) exceeded their respective NYSDEC Class GA criteria and guidance values, as follows.

    - Benzene at 12.0 ppb.

    Naphthalene was detected at a concentration of 43 ppb, which exceeds its respective guidance value of 10 ppb.

Twelve (12) SVOCs were detected above their method reporting limits, but below their respective NYSDEC Class GA criteria or guidance values.

- WT1-04 (screen depth: 15.5' - 25.5'): Eight (8) VOCs were detected above method reporting limits of which two (2) exceeded their respective NYSDEC Class GA criteria and guidance values, as follows.

    - Benzene at 14 ppb.

  Naphthalene was detected at a concentration of 54 ppb, which exceeds its respective guidance value of 10 ppb.

  Seventeen (17) SVOCs were detected above their method reporting limits and five (5) exceeded their respective NYSDEC Class GA guidance values, as follows.

    - Naphthalene at 31.1 ppb;
    - Benzo [a] Anthracene at 0.402 ppb (estimated value, i.e., J detect);
    - Benzo [b] Fluoranthene at 0.136 ppb (estimated value, i.e., J detect);
    - Benzo [a] Pyrene at 0.091 ppb (estimated value, i.e., J detect); and
    - Chrysene at 0.331 ppb (estimated value, i.e., J detect).

- WT1-05 (screen depth: 13.3' - 23.3'): Eight (8) VOCs were detected above method reporting limits of which four (4) exceeded their respective NYSDEC Class GA criteria and guidance values, as follows.

    - Benzene at 9.3 ppb; and
    - m,p-Xylene at 6.7 ppb; and
    - o-Xylene at 5.1 ppb.

  Naphthalene was detected at a concentration of 200 ppb which exceeds its respective guidance value of 10 ppb.

  Twelve (12) SVOCs were detected above method reporting limits, of which one (1) exceeded their respective NYSDEC Class GA guidance values as follows.

    - Naphthalene at 111 ppb.

- BCP-ORC-1 (screen depth: 24.7' - 34.7'): Seven (7) VOCs were detected above method reporting limits of which three (3) exceeded their respective NYSDEC Class GA criteria and guidance values, as follows.

    - Benzene at 27 ppb;
    - o-Xylene at 6.1 ppb (estimated value, i.e., J detect).

  Naphthalene was detected at a concentration of 460 ppb, which exceeds its respective guidance value of 10 ppb.

Fourteen (14) SVOCs were detected above method reporting limits, of which three (3) exceeded their respective NYSDEC Class GA guidance values as follows.

- Naphthalene at 246 ppb;
- Benzo [a] Anthracene at 0.295 ppb (estimated value, i.e., J detect); and
- Chrysene at 0.225 ppb (estimated value, i.e., J detect).

In general, VOC and SVOC concentrations were consistent with historical data collected during previous sampling events. A more detailed discussion, including a trend analysis, is provided in Section 6.00 of this report.

6.00 STATISTICAL ANALYSIS

As stated in Section 2.4 of Attachment A4 (LTGWM Plan) of the September 2007 ***Site Management Plan***, a statistical analysis is required for all detected constituents (in groundwater) that are observed at concentrations above NYSDEC Class GA criteria or guidance values. In lieu of performing moving trend analysis, as described in the LTGWM Plan, GZA generated time series plots for parameters which exceeded the NYSDEC Class GA criteria, either during this monitoring round or in previous routine monitoring rounds (routine monitoring started in 2008). These plots were evaluated for trends over the routine monitoring period time, which started in 2008 (approximately 13 years) at a 95% confidence interval and outliers. Sen's Test for trends were performed to evaluate statistically significant trends in the data with respect to time. Time series plots were generated on a well-by-well basis and are presented in Appendix C. During future monitoring rounds, the time series plots may be evaluated over the most recent five-year period, rather than the entire routine monitoring period.

Twenty-five statistically significantly decreasing trends in contaminant concentrations were identified by the Sen's Tests:

- BCP-ORC-1: benzene;
- MWN-01: 1,2,4-trimethylbenzene, benzene, biphenyl, fluorene, o-xylene, phenanthrene, toluene and xylenes;
- MWN-02: benzene and xylenes;
- MWN-02B: benzene;
- MWN-03B: manganese;
- WT1-02: 1,3,5-trimethylbenzene, benzene, m,p-xylene, toluene and xylenes; and
- WT1-04: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, m, p-xylene, o-xylene, toluene and xylenes.

The Sen's Tests also identified three statistically significant increasing trends:

- BCP-ORC-1: naphthalene and o-xylene; and
- WT1-05: phenanthrene.

Time series plots were also evaluated for seasonality and outliers. There does not appear to be seasonal fluctuations of contaminant concentrations or outliers in the monitoring data.

7.00 SUMMARY

GZA was retained to collect and analyze groundwater samples from thirteen (13) annual/semi-annual monitoring wells at the Steel Winds I facility in accordance with the ***Site Management Plan***. A summary of our findings follows.

Annual Well Locations

- Static groundwater level measurements indicate that groundwater flows predominantly in a westerly direction at the Site, toward Lake Erie. Groundwater in the vicinity of WT-01 was observed to flow south-southwesterly towards Smoke Creek and Lake Erie.

- VOCs were detected at concentrations above NYSDEC Class GA criteria in the groundwater samples collected from LTGWM wells MWN-01, MWN-01B, MWN-02, MWN-02B, and MWN-03.

- VOCs were not detected above method reporting limits (and therefore not above NYSDEC Class GA criteria) in LTGWM monitoring well locations MWN-03D and MWN-04.

- SVOCs were detected at concentrations above NYSDEC Class GA or their respective guidance criteria in the groundwater samples collected from LTGWM wells MWN-01, MWN-01B, MWN-02B, MWN-03, and MWN-03D.

- Arsenic was detected at concentrations above NYSDEC Class GA criteria in LTGWM wells MWN-02B and MWN-03B.

- Barium was detected at concentrations above NYSDEC Class GA criteria in LTGWM wells MWN-03B and MWN-03D.

- Manganese detected at concentrations above NYSDEC Class GA criteria in LTGWM well MWN-03B.

Semi-Annual Well Locations

- VOCs were detected at concentrations above NYSDEC Class GA criteria in the groundwater samples collected from the semi-annual WT1 vicinity wells MWN-01, MWN-01B, WT1-02, WT1-04, WT1-05 and BCP-ORC-1.

- SVOCs were detected at concentrations above NYSDEC Class GA or their respective guidance criteria in the groundwater samples collected from the semi-annual WT1 vicinity wells MWN-01, MWN-01B, WT1-04, WT1-05, and BCP-ORC-1.

- Based on our review of the historic and current analytical data, the analytical test results from the September 2021 round of sampling are generally consistent with historical data. Statistically significant trends in contaminant concentrations were identified as noted in Section 6.00.

TABLES

TABLE 1
September 2021 Analytical Testing Program Summary
Steel Winds I Facility
Lackawanna, New York

Well Designation	Sample ID	Date Collected	Screened Interval (TOR)	STARS VOCs	SVOCs (BN)	Total Arsenic	Total Barium	Total Chromium	Total Manganese
Annual Monitoring Well Sample Locations (LTGWM Network)									
MWN-01	MWN-01-090221	9/2/2021	9.2 - 19.2	X	X				
MWN-01B	MWN-01B-090221	9/2/2021	22.2 - 32.2	X	X				
MWN-02	MWN-02-090321	9/3/2021	23.6 - 33.6	X	X				
MWN-02B	MWN-02B-090321	9/3/2021	46.3 - 56.3	X	X	X			
MWN-02D	MWN-02D-090321	9/3/2021	74.3 - 79.3			X	X	X	
MWN-03	MWN-03-090221	9/2/2021	39.2 - 49.2	X	X				
MWN-03B	MWN-03B-090321	9/3/2021	60.7 - 70.7			X	X	X	X
MWN-03D	MWN-03D-090321	9/3/2021	111.3 - 121.3	X	X		X		X
MWN-04	MWN-04-090221	9/2/2021	48.5 - 58.5	X	X				
Semi-Annual Monitoring Well Sample Locations (WT-1 Vicinity Network)									
MWN-01	MWN-01-090221	9/2/2021	9.2 - 19.2	X	X				
MWN-01B	MWN-01B-090221	9/2/2021	22.2 - 32.2	X	X				
WT1-02	WT1-02-090221	9/2/2021	27.8 - 37.8	X	X				
WT1-04	WT1-04-090221	9/2/2021	15.5 - 25.5	X	X				
WT1-05	WT1-05-090221	9/2/2021	13.3 - 23.3	X	X				
BCP-ORC-1	BCP-ORC-1-090221	9/2/2021	24.7 - 34.7	X	X				

Notes:

1. VOCs = Volatile Organic Compounds STARS list via EPA Method 8260B.
2. SVOCs = Semi-Volatile Organic Compounds Base-Neutrals list via EPA Method 8270C.
3. Arsenic, Barium, Chromium, and Manganese via EPA Method 6010B.
4. "WT", "MWN", and "BCP-ORC" monitoring well information provided in Table 1 was referenced from Turnkey Environmental Restoration, LLC's *2009 Annual LTGWM & First Semi-Annual WT-1 Vicinity Monitoring Report.*
5. TOR = measurement recorded in feet below top-of-well riser.

Table 2

September 2021 Annual Groundwater Analytical Data Summary
Steel Winds I Facility
Lackawanna, New York

Parameter	NYSDEC Class GA Criteria	MWN-01					MWN-01B					MWN-02				
		9/24/2019 Result	3/18/2020 Result	9/17/2020 Result	4/2/2021 Result	9/2/2021 Result	9/24/2019 Result	3/18/2020 Result	9/17/2020 Result	4/2/2021 Result	9/2/2021 Result	9/20/2017 Result	9/18/2018 Result	9/25/2019 Result	9/17/2020 Result	9/3/2021 Result
Water Quality Field Measurements																
pH (units)	6.5 - 8.5	**11.59**	**11.75**	7.81	7.66	**11.53**	**11.29**	**11.40**	7.83	8.01	**11.1**	**12.31**	**12.28**	**11.94**	**8.31**	**11.7**
Temperature (°c)	NV	13.4	10.4	14.4	10.5	10.8	10.7	11.3	10.9	11	9.8	13.0	12.6	11.3	12.35	12.6
Specific Conductance (mS/cm)	NV	1.051	1.150	1.450	1.380	1.212	0.921	0.902	0.991	1.010	0.831	2.06	1.886	1.763	2.04	1.776
Turbidity (NTU)	5	2.4	1.23	2.9	2.4	2.61	**5.7**	1.20	**7.3**	**5.4**	**7.67**	1.89	3.0	**38.6**	**6.8**	2.51
Dissolved Oxygen (mg/L)	NV	0.30	1.32	116.7	132.3	1.2	0.09	0.68	134.7	115.9	0.8	0.55	1.51	0.060	97.2	2.8
Oxygen Reduction Potential (mV)	NV	-211.1	-262.8	-237	-231	-159.2	-325.3	-388.8	-247	-204	-214.2	-164.6	-87.2	-121.0	-281	-115.1
Volatile Organic Compounds - EPA Method 8260 (ug/L)																
Benzene	1	**11**	**18**	**17**	**14**	**14**	**53**	**68**	**59**	**57**	**55**	**7.9**	**2.5**	**2.2**	1	**5.1**
Toluene	5	2.5	4.2 J	4.2	4.0 J	3.6 J	**17 J**	**19 J**	**18 J**	**20 J**	**19 J**	2.2 J	<	<	<	1.4 J
Ethylbenzene	5	<	<	0.98 J	<	<	<	<	<	<	<	<	<	<	<	<
m,p-Xylene	5	**7.0**	**9.5**	**10**	**9.3**	**8.7**	**14 J**	**13 J**	**13 J**	**15 J**	**12 J**	4.1	1.3 J	1.1 J	0.76 J	2.4 J
o-Xylene	5	**5.6**	**7.5**	**8**	**7.1**	**6.5**	**9.3 J**	**9.3 J**	**9.1 J**	**10 J**	**9.0 J**	4.4	1.2 J	1.1 J	<	2.1 J
Xylene (Total)	15	**12.6**	**17.0**	**18.0**	**16.0**	**15.2**	**23.3**	**22.3 J**	**22.1**	**25 J**	**21 J**	8.5	2.5	2.2	0.76 J	4.5 J
1,3,5-Trimethylbenzene	5	1.8 J	3.8 J	4	4.5 J	4.2 J	<	<	<	<	<	2.8	1.8 J	1.4 J	0.91 J	1.8 J
1,2,4-Trimethylbenzene	5	2.0 J	4.3 J	4.3	4.8 J	4.6 J	<	<	<	**7.6 J**	**7.1 J**	1.4 J	<	<	<	1.2 J
Naphthalene*	10	**150**	**220**	**240**	**310**	**270**	**1,500**	**1,300**	**1,500**	**1,800**	**1,500**	**36**	7.3	9.4	**20**	**20**
Semi-Volatile Organic Compounds - EPA Method 8270 (ug/L)																
Acetophenone	NV	<	<	<	<	<	<	<	<	<	<	<	0.368 J	<	<	<
Acenaphthylene	NV	12.0	30.3	22.4	34	22.3	50.0	44.6	54.6	44	44.0	2.73	0.815	1.36	0.727	1.98
Naphthalene*	10	**46.6**	**178**	**139.0**	**140**	**96.2**	**1010**	**1,210**	**1,030**	**910**	**962**	**11.2**	1.19	2.87	2.38	5.23
2-Methylnaphthalene	NV	12.9	36.9	27.1	35	21.9	43.3	40.3	48.0	41	35.8	3.06	0.302 J	1.02	0.552	1.78
Acenaphthene*	20	4.14	10.4	8.34	13	8.66	10.0	10.4	11.2	10	12.0	1.50	0.538	0.758	0.431 J	1.20
Dibenzofuran	NV	13.6	37.5	25.9	44	28.9	27.5	24.7	29.4	23	30.3	2.74	0.156J	0.922	0.584	2.35
Fluorene*	50	19.4	**61.4**	38.3	**70**	41.9	38.2	34.7	43.9	38	43.7	5.98	0.92	2.98	1.52	4.76
Phenanthrene*	50	24.4	**85.2**	45.3	**110**	**71.0**	**61.9**	**57.5**	**64.3**	**55**	**61.9**	2.02	<	2.55	1.46	4.14
Dibenzo (a,h)Anthracene	NV	<	<	<	0.05 J	<	<	<	<	<	<	<	<	<	<	<
Carbazole	NV	11.1	26.5	20.30	26	19.6	59.9	63.9	62.4	52	60.0	3.45	0.598	1.34	0.702	3.67
Anthracene*	50	4.18	8.96	5.81	19	7.74	9.04	8.68	11.00	5.3	8.19	0.941	0.212J	0.635	0.467 J	0.983
Fluoranthene*	50	4.34	10.5	5.72	24	9.44	9.16	9.19	10.3	10	8.97	1.72	1.86	1.4	1.14	1.56
Biphenyl	5	3.07	**7.71**	**6.41**	**8.8**	**5.85**	**8.20**	**6.89**	**8.19**	**6.5**	**7.45**	1.06	0.199 J	0.412 J	0.198 J	0.732
Pyrene*	50	3.73	6.30	4.47	**14**	6.16	5.86	5.32	6.62	5.9	6.44	1.24	1.28	1.26	1.41	1.56
Butyl benzyl phthalate*	50	<	<	<	<	0.104 J	<	<	<	<	<	<	<	<	<	0.093 J
Benzo [a] Anthracene	0.002	<	**0.299 J**	<	**1.4**	<	<	**0.362 J**	<	0.38	**0.461 J**	<	<	<	<	<
Benzo [b] Fluoranthene*	0.002	<	<	<	**0.4**	<	<	<	<	**0.10 J**	**0.105 J**	<	<	<	<	<
Benzo [k] Fluoranthene*	0.002	<	<	<	**0.14**	<	<	<	<	**0.04 J**	<	<	<	<	<	<
Benzo [a] Pyrene	ND	<	<	<	**0.26**	<	<	<	<	**0.05 J**	**0.072 J**	<	<	<	<	<
Indeno [1,2,3-cd] Pyrene*	0.002	<	<	<	**0.11**	<	<	<	<	**0.04 J**	<	<	<	<	<	<
Benzo (g,h,i) Perylene	NV	<	<	<	0.09 J	<	<	<	<	0.03 J	<	<	<	<	<	<
Chrysene	0.002	<	**0.206 J**	<	**0.82**	**0.216 J**	<	**0.218 J**	<	**0.22**	**0.256 J**	<	<	<	<	<
bis(2-Ethylhexyl)Phthalate	5	<	<	0.456 J	<	<	<	0.182 J	1.10	<	<	0.396	<	0.098 J	0.602	<
Metals - EPA Method 6010/7470 (ug/L)																
Arsenic	25	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Barium	1,000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	50	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Manganese	300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Notes:
1. Compounds detected in one or more sample are presented on this table. Refer to Appendix B for list of all compounds included in analysis.
2. Analytical testing completed by Alpha Analytical, Westborough, Massachusetts.
3. NYSDEC Groundwater Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, errata January 1999 and amended April 2000 (Class GA).
4. ug/L = part per billion (ppb).
5. < indicates compound was not detected above method detection limits.
6. "J" qualifier = Analyte detected below quantitation limits.
7. Value shown in **bold** indicate exceedance of respective Class GA Criteria or guidance value.
8. NV = no value, NT = not tested, ND = Not detected above method detection limit
9. * = value shown is a guidance value rather than a groundwater standard.
10. The equipment used to collect water quality data was calibrated prior to and during use in accordance with the manufacturer's recommendations.
11. DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 and 4/2021 appear erroneous.

Table 2

September 2021 Annual Groundwater Analytical Data Summary
Steel Winds I Facility
Lackawanna, New York

Parameter	NYSDEC Class GA Criteria	MWN-02B					MWN-02D					MWN-03				
		9/20/2017 Result	9/17/2018 Result	9/25/2019 Result	9/17/2020 Result	9/3/2021 Result	9/20/2017 Result	9/18/2018 Result	9/24/2019 Result	9/18/2020 Result	9/3/2021 Result	9/20/2017 Result	9/18/2018 Result	9/25/2019 Result	9/17/2020 Result	9/2/2021 Result
Water Quality Field Measurements																
pH (units)	6.5 - 8.5	**11.75**	**11.57**	**11.34**	8.21	**11.30**	7.42	7.10	7.00	6.99	6.61	**12.51**	**12.39**	**12.32**	**8.53**	**12.00**
Temperature (°c)	NV	13.4	13.1	12.1	12.92	12.6	13.1	13.7	12.6	13.61	12.9	15.2	13.5	12.8	13.57	13.3
Specific Conductance (mS/cm)	NV	1.04	0.942	0.958	1.13	0.910	2.08	1.864	1.890	1.970	1.354	3.04	2.825	2.724	2.89	2.729
Turbidity (NTU)	5	1.76	2.8	1.9	**6.9**	2.52	1.61	3.8	**15.1**	**7.2**	**5.15**	8.41	3.1	3.9	3.9	4.82
Dissolved Oxygen (mg/L)	NV	0.08	0.14	0.15	95.5	1.2	0.14	0.15	0.09	6.1	1.5	0.30	0.17	0.11	115.2	2.1
Oxygen Reduction Potential (mV)	NV	-284.7	-284.9	-220.6	-256	-202.6	-142.6	-70.5	-96.3	-72	-51.6	-301.8	-352.6	-412.1	-361	-267.3
Volatile Organic Compounds - EPA Method 8260 (ug/L)																
Benzene	1	**71**	**71**	**64**	**69**	**61**	NT	NT	NT	NT	NT	**6.4**	**12**	**8.0**	**10**	**7.1**
Toluene	5	**12**	**12**	**11**	**11**	**11**	NT	NT	NT	NT	NT	1.6 J	2.7	2.0 J	2.2 J	1.8 J
Ethylbenzene	5	<	<	0.76 J	<	<	NT	NT	NT	NT	NT	<	<	<	<	<
m,p-Xylene	5	**7.8 J**	**8.2**	**8.2**	**8.5**	**9.2**	NT	NT	NT	NT	NT	1.4 J	2.4 J	1.4 J	1.5 J	1.3 J
o-Xylene	5	**13**	**12**	**12**	**13.0**	**13**	NT	NT	NT	NT	NT	1.7 J	2.7	1.5 J	1.8 J	1.4 J
Xylene (Total)	15	**20.8**	**20.2**	**20.2**	**21.5**	**22.2**	NT	NT	NT	NT	NT	3.1	5.1	2.9	3.3	2.7 J
1,3,5-Trimethylbenzene	5	<	<	1.5 J	1.5 J	2.0 J	NT	NT	NT	NT	NT	1.1 J	1.4 J	0.90 J	0.97 J	0.93 J
1,2,4-Trimethylbenzene	5	3.2 J	2.8 J	2.5	2.6 J	3.5 J	NT	NT	NT	NT	NT	<	<	<	<	<
Naphthalene*	10	**260**	**340**	**240**	**270**	**280**	NT	NT	NT	NT	NT	**16**	20	**23**	**26**	**19**
Semi-Volatile Organic Compounds - EPA Method 8270 (ug/L)																
Acetophenone	NV	<	0.451 J	<	<	<	NT	NT	NT	NT	NT	<	0.271 J	<	<	<
Acenaphthylene	NV	2.71	3.77	4.58	3.90	3.18	NT	NT	NT	NT	NT	1.42	1.78	1.73	0.980	1.23
1,2-Dichlorobenzene	3	0.176 J	0.178J	0.171 J	0.168 J	0.162 J	NT	NT	NT	NT	NT	0.089 J	0.104 J	0.099 J	0.121 J	0.102 J
Di-n-butylphthalate	NV	<	<	<	<	<	NT	NT	NT	NT	NT	<	<	<	<	<
Naphthalene*	10	**171 D**	**150**	**217**	**205**	**183**	NT	NT	NT	NT	NT	**11.6**	**16.5**	**17.1**	**18.1**	**11.2**
2-Methylnaphthalene	NV	7.66	9.6	8.05	8.83	6.89	NT	NT	NT	NT	NT	2.25	3.26	2.7	3.10	1.93
Acenaphthene*	20	6.17	7.39	7.09	7.47	7.46	NT	NT	NT	NT	NT	1.22	1.63	1.3	1.45	1.11
Dibenzofuran	NV	4.90	5.58	5.76	6.24	6.32	NT	NT	NT	NT	NT	2.21	3.12	2.34	2.81	1.99
Fluorene*	50	8.85	8.44	10.7	11.40	10.2	NT	NT	NT	NT	NT	4.33	5.47	4.5	4.82	3.48
Phenanthrene*	50	14.7	15.4	17.5	18.30	18.0	NT	NT	NT	NT	NT	7.71	8.69	8.23	8.29	7.54
Carbazole	NV	21.3	21.9	23.2	24.40	23.1	NT	NT	NT	NT	NT	3.52	4.88	4.30	4.58	3.26
Anthracene*	50	1.80	2.33	2.32	2.35	1.67	NT	NT	NT	NT	NT	0.877	0.86	1.00	0.612	0.884
Fluoranthene*	50	3.68	3.96	3.32	4.13	3.34	NT	NT	NT	NT	NT	2.85	2.48	2.7	2.53	2.18
Biphenyl	5	1.26	1.41	1.64	1.62	1.52	NT	NT	NT	NT	NT	0.621	0.868	0.707	0.792	0.512
Pyrene*	50	2.28	2.5	2.22	2.82	2.49	NT	NT	NT	NT	NT	1.93	1.76	1.66	1.63	1.78
Butylbenzylphthalate*	50	<	<	<	<	0.124 J	NT	NT	NT	NT	NT	<	<	<	<	<
bis(2-Ethylhexyl)Phthalate	5	0.341 J	<	<	<	<	NT	NT	NT	NT	NT	0.327 J	<	<	0.336 J	<
n-Nitrosodiphenylamine	50	0.426 J	<	<	<	<	NT	NT	NT	NT	NT	0.327 J	<	<	<	<
Benzo [b] Fluoranthene	0.002	<	<	<	<	<	NT	NT	NT	NT	NT	<	0.171J	<	<	<
Metals - EPA Method 6010/7470 (ug/L)																
Arsenic	25	**34.82**	**30.81**	**32**	**28.44**	**27.68**	0.62	0.72	0.60	0.63	0.62	NT	NT	NT	NT	NT
Barium	1,000	NT	NT	NT	NT	NT	898.5	957	931.9	912.8	922.5	NT	NT	NT	NT	NT
Chromium	50	NT	NT	NT	NT	NT	0.27 J	0.19 J	<	0.30 J	0.60 J	NT	NT	NT	NT	NT
Manganese	300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

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6. "J" qualifier = Analyte detected below quantitation limits.
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Parameter	NYSDEC Class GA Criteria	MWN-3B					MWN-03D					MWN-04				
		9/20/2017 Result	9/18/2018 Result	9/25/2019 Result	10/1/2020 Result	9/3/2021 Result	9/20/2017 Result	9/18/2018 Result	9/25/2019 Result	9/24/2020 Result	9/3/2021 Result[11]	9/20/2017 Result	9/18/2018 Result	9/25/2019 Result	9/17/2020 Result	9/2/2021 Result
Water Quality Field Measurements																
pH (units)	6.5 - 8.5	7.24	7.21	7.80	7.2	7.29	6.52	6.52	**6.17**	**6.25**	7.31	**11.79**	**11.71**	**12.05**	7.98	**11.57**
Temperature (°c)	NV	13.2	14.3	13.7	13.9	14.7	13.7	13.5	12.9	14.4	13.5	16.7	16.7	16.0	15.97	15.7
Specific Conductance (mS/cm)	NV	2.69	3.126	3.139	2.413	2.586	26.20	26.69	24.662	25.881	24.410	2.72	2.490	2.311	2.35	2.313
Turbidity (NTU)	5	3.85	**6.2**	**25.6**	**38.04**	**16.44**	1.97	4.4	**29.4**	**14.31**	**35.83**	2.36	2.2	2.6	2.4	1.98
Dissolved Oxygen (mg/L)	NV	0.15	0.17	0.15	49.7	2.9	0.18	0.12	0.56	36.5	5.5	4.8	4.11	5.56	107.4	3.0
Oxygen Reduction Potential (mV)	NV	-177.9	-188.8	-188.8	-63.7	-146.7	-33.8	-32.0	-32.4	-45.3	41.6	-83.1	-101.3	-99.7	-65	-81.2
Volatile Organic Compounds - EPA Method 8260 (ug/L)																
Benzene	1	NT	NT	NT	NT	NT	<	<	<	<	<	<	<	<	<	<
Toluene	5	NT	NT	NT	NT	NT	<	<	<	<	<	<	<	<	<	<
Ethylbenzene	5	NT	NT	NT	NT	NT	0.91 J	<	<	<	<	<	<	<	<	<
m,p-Xylene	5	NT	NT	NT	NT	NT	1.8 J	1.1 J	<	<	<	<	<	<	<	<
o-Xylene	5	NT	NT	NT	NT	NT	<	<	<	<	<	<	<	<	<	<
Xylene (Total)	15	NT	NT	NT	NT	NT	1.8	1.1	<	<	<	<	<	<	<	<
1,3,5-Trimethylbenzene	5	NT	NT	NT	NT	NT	1.4 J	<	<	0.73 J	<	<	<	<	<	<
1,2,4-Trimethylbenzene	5	NT	NT	NT	NT	NT	2.0 J	0.74 J	<	<	<	<	<	<	<	<
Naphthalene*	10	NT	NT	NT	NT	NT	<	<	<	<	<	<	1.0 J	<	1.4 J	<
Semi-Volatile Organic Compounds - EPA Method 8270 (ug/L)																
Naphthalene*	10	NT	NT	NT	NT	NT	0.182 J	0.420 J	0.196 J	<	0.121 J	0.953	0.090 J	<	0.163 J	<
2-Methylnaphthalene	NV	NT	NT	NT	NT	NT	<	<	<	<	<	0.171 J	<	<	<	<
Acenaphthene*	20	NT	NT	NT	NT	NT	<	<	<	<	<	0.417 J	<	<	0.377 J	<
Dibenzofuran	NV	NT	NT	NT	NT	NT	<	<	<	<	<	0.136 J	<	<	0.107 J	<
Fluorene*	50	NT	NT	NT	NT	NT	<	<	<	<	<	0.256 J	<	<	0.304 J	<
Phenanthrene*	50	NT	NT	NT	NT	NT	<	<	<	<	<	0.267 J	0.212 J	<	0.302 J	<
Carbazole	NV	NT	NT	NT	NT	NT	<	<	<	<	<	0.728	<	<	<	<
Anthracene*	50	NT	NT	NT	NT	NT	<	<	<	<	<	<	0.156 J	<	<	<
Fluoranthene*	50	NT	NT	NT	NT	NT	<	<	<	<	<	<	<	<	0.168 J	<
Biphenyl	5	NT	NT	NT	NT	NT	<	<	<	<	<	<	<	<	<	<
Pyrene*	50	NT	NT	NT	NT	NT	<	<	<	<	<	0.402 J	0.536	0.640	0.447 J	0.459 J
Di-n-octylphthalate*	50	NT	NT	NT	NT	NT	<	<	<	0.690 J	<	<	<	<	<	<
Butylbenzylphthalate*	50	NT	NT	NT	NT	NT	<	<	0.211 J	0.091 J	0.137 J	<	<	<	<	<
Diethylphthalate*	50	NT	NT	NT	NT	NT	<	<	<	0.518	0.549	<	<	<	<	<
bis(2-Ethylhexyl)Phthalate	5	NT	NT	NT	NT	NT	0.800	0.232 J	0.514	**44.9**	**7.15**	0.323 J	0.083J	0.123 J	0.342 J	<
Metals - EPA Method 6010/7470 (ug/L)																
Arsenic	25	**36.85**	**38**	**36.12**	2.73	**86.97**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Barium	1,000	**1,176**	**1,348**	**1,291**	837.3	**1,049**	**1,284**	**1,404**	**1,286**	**1,234**	**1,318**	NT	NT	NT	NT	NT
Chromium	50	1.57	1.89	1.74	0.28 J	5.10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Manganese	300	**426.4**	**471.8**	267.4	**336.7**	**400.2**	181.7	245.6	38.19	41.49	24.52	NT	NT	NT	NT	NT

Notes:
1. Compounds detected in one or more sample are presented on this table. Refer to Appendix B for list of all compounds included in analysis.
2. Analytical testing completed by Alpha Analytical, Westborough, Massachusetts.
3. NYSDEC Groundwater Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, errata January 1999 and amended April 2000 (Class GA).
4. ug/L = part per billion (ppb).
5. < indicates compound was not detected above method detection limits.
6. "J" qualifier = Analyte detected below quantitation limits.
7. Value shown in **bold** indicate exceedance of respective Class GA Criteria or guidance value.
8. NV = no value, NT = not tested, ND = Not detected above method detection limit
9. * = value shown is a guidance value rather than a groundwater standard.
10. The equipment used to collect water quality data was calibrated prior to and during use in accordance with the manufacturer's recommendations.
11. DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 and 4/2021 appear erroneous.
12. Well MWN-03D was unable to be low flow sampled. Hand bailing techniques were required. Metals analysis required laboratory filtration.

Table 3

September 2021 Semi-Annual Groundwater Analytical Data Summary
Steel Winds I Facility
Lackawanna, New York

Parameter	NYSDEC Class GA Criteria	MWN-01					MWN-01B					WT1-02				
		9/24/2019 Result	3/18/2020 Result	9/17/2020 Result	4/2/2021 Result	9/2/2021 Result	9/24/2019 Result	3/18/2020 Result	9/17/2020 Result	4/2/2021 Result	9/2/2021 Result	9/24/2019 Result	3/18/2020 Result	9/18/2020 Result	4/2/2021 Result	9/2/2021 Result
Water Quality Field Measurements																
pH (units)	6.5 - 8.5	**11.59**	**11.75**	7.81	7.66	**11.53**	**11.29**	**11.40**	7.83	8.01	**11.1**	**12.18**	**12.19**	**9.07**	7.68	**11.85**
Temperature (˚C)	NV	13.4	10.4	14.4	10.5	10.8	10.7	11.3	10.9	11.0	9.8	12.4	12.1	13.08	11.5	12.3
Specific Conductance (mS/cm)	NV	1.051	1.150	1.450	1.380	1.212	0.921	0.902	0.991	1.01	0.831	2.116	2.110	2.090	1.84	1.770
Turbidity (NTU)	5	2.4	1.23	2.9	2.4	2.61	**5.7**	1.20	**7.30**	**5.4**	**7.67**	4.5	1.67	**16**	**8.6**	2.7
Dissolved Oxygen (mg/L)	NV	0.30	1.32	116.7	132.3	1.2	0.09	0.68	134.7	115.9	0.8	2.28	1.24	28.3	33.6	4.7
Oxygen Reduction Potential (mV)	NV	-211.1	-262.8	-237	-231	-159.2	-325.3	-388.8	-247	-204	-214.2	-137.8	-238.1	-200	-177	-160.7
Volatile Organic Compounds - EPA Method 8260 (ug/L)																
Benzene	1	**11**	**18**	**17**	**14**	**14**	**53**	**68**	**59**	**57**	**55**	**9.6**	**6.4**	**7.6**	**6.0**	**12**
Toluene	5	2.5	4.2 J	4.2	4.0 J	3.6 J	**17 J**	**19 J**	**18 J**	**20 J**	**19 J**	1.9 J	1.2 J	1.6 J	1.3 J	2.4 J
Ethylbenzene	5	<	<	0.98 J	<	<	<	<	<	<	<	<	<	<	<	<
m,p-Xylene	5	**7.0**	**9.5**	**10**	**9.3**	**8.7**	**14 J**	**13 J**	**13 J**	**15 J**	**12 J**	4.6	2.3 J	3.1	2.2 J	4.2
o-Xylene	5	**5.6**	**7.5**	**8**	**7.1**	**6.5**	**9.3 J**	**9.3 J**	**9.1 J**	**10 J**	**9.0 J**	3.7	1.9 J	2.6	1.6 J	3.0
Xylene (Total)	15	12.6	**17.0**	**18.0**	**16**	**15.2**	**23.3 J**	**22.3 J**	**22.1**	**25 J**	**21 J**	8.3	4.2 J	5.7	3.8 J	7.2
1,3,5-Trimethylbenzene	5	1.8 J	3.8 J	4	4.5 J	4.2 J	<	<	<	<	<	1.7 J	1.3 J	1.5 J	1.3 J	2.0 J
1,2,4-Trimethylbenzene	5	2.0 J	4.3 J	4.3	4.8 J	4.6 J	<	<	<	**7.6 J**	**7.1 J**	1.2 J	0.80 J	1.1 J	0.86 J	1.5 J
Naphthalene*	10	**150**	**220**	**240**	**310**	**270**	**1,500**	**1,300**	**1,500**	**1,800**	**1,500**	**48**	**14**	**36**	**22**	**43**
Semi-Volatile Organic Compounds - EPA Method 8270 (ug/L)																
Acetophenone	NV	<	<	<	<	<	<	<	<	<	<	<	0.297 J	<	<	<
Acenaphthylene	NV	12.0	30.3	22.4	34	22.3	50.0	44.6	54.6	44	44.0	0.969	0.847	1.08	1.1	0.651
Naphthalene*	10	**46.6**	**178**	**139.0**	**140**	**96.2**	**1010**	**1,210**	**1,030**	**910**	**962**	**17.6**	4.95	**16.90**	**14**	9.38
2-Methylnaphthalene	NV	12.9	36.9	27.1	35	21.9	43.3	40.3	48.0	41	35.8	3.70	2.21	3.57	3.3	2.11
Acenaphthene*	20	4.14	10.4	8.34	13	8.66	10.0	10.4	11.2	10	12.0	0.994	1.06	1.08	1.3	0.710
Dibenzofuran	NV	13.6	37.5	25.9	44	28.9	27.5	24.7	29.4	23.0	30.3	2.33	2.06	3.94	3.7	2.47
Fluorene*	50	19.4	**61.4**	38.30	**70**	41.9	38.2	34.7	43.9	38	43.7	5.58	4.44	6.14	7.3	3.50
Phenanthrene*	50	24.4	**85.2**	45.30	**110**	**71.0**	**61.9**	**57.5**	**64.3**	**55**	**61.9**	4.88	7.39	13.30	17	8.10
Dibenzo (a,h)Anthracene	NV	<	<	<	0.05 J	<	<	<	<	<	<	<	<	<	<	<
Carbazole	NV	11.1	26.5	20.30	26	19.6	59.9	63.9	62.4	52.0	60.0	4.02	2.84	3.75	2.9	2.88
Anthracene*	50	4.18	8.96	5.81	19	7.74	9.04	8.68	11.00	5.3	8.19	1.85	1.95	2.40	2.8	1.44
Fluoranthene*	50	4.34	10.5	5.72	24	9.44	9.16	9.19	10.3	10	8.97	3.42	4.60	4.02	6.6	3.18
Biphenyl	5	3.07	**7.71**	**6.41**	**8.8**	**5.85**	**8.20**	**6.89**	**8.19**	**6.50**	**7.45**	0.902	0.695	0.99	0.82 J	0.548
Pyrene*	50	3.73	6.30	4.47	14	6.16	5.86	5.32	6.62	5.90	6.44	2.91	3.35	3.45	4.8	2.39
Butyl benzyl phthalate*	50	<	<	<	<	0.104 J	<	<	<	<	<	<	<	<	<	<
Benz [a] Anthracene*	0.002	<	**0.299 J**	<	**1.4**	<	<	**0.362 J**	<	**0.38**	**0.461 J**	<	**0.186 J**	<	**0.24**	<
Benzo [b] Fluoranthene*	0.002	<	<	<	**0.40**	<	<	<	<	**0.10 J**	**0.105 J**	<	<	<	**0.03 J**	<
Benzo [k] Fluoranthene*	0.002	<	<	<	**0.14**	<	<	<	<	**0.04 J**	<	<	<	<	**0.01 J**	<
Benzo [a] Pyrene	ND	<	<	<	**0.26**	<	<	<	<	**0.05 J**	**0.072 J**	<	<	<	<	<
Indeno [1,2,3-cd] Pyrene*	0.002	<	<	<	**0.11**	<	<	<	<	**0.04 J**	<	<	<	<	<	<
Benzo (g,h,i) Perylene	NV	<	<	<	0.09 J	<	<	<	<	0.03 J	<	<	<	<	<	<
Chrysene*	0.002	<	**0.206 J**	<	**0.82**	**0.216 J**	<	**0.218 J**	<	**0.22**	**0.256 J**	<	**0.150 J**	<	**0.17**	<
bis(2-Ethylhexyl)phthalate	5	<	<	0.456 J	<	<	<	0.182 J	1.10	<	<	0.231 J	0.195 J	0.334 JB	<	<
Metals - EPA Method 6010/7470 (ug/L)																
Arsenic	25	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Barium	1,000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	50	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Manganese	300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Notes:
1. Compounds detected in one or more sample for the past five sampling events are presented on this table. Refer to Appendix B for list of all compounds included in analysis.
2. Analytical testing completed by Alpha Analytical in Westborough, MA .
3. NYSDEC Groundwater Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, errata January 1999 and amended April 2000 (Class GA).
4. ug/L = part per billion (ppb).
5. < indicates compound was not detected above method detection limits.
6. "J" qualifier = Analyte detected below quantitation limits.
7. "B" qualifier = indicates compound was detected in the method blank sample.
8. "D" qualifier = indicates the compound concentration was obtained from a secondary dilution analysis.
7. Value shown in **bold** indicates exceedance of respective Class GA Criteria or guidance value.
8. NV = no value, NT = not tested, ND = Not detected above method detection limit
9. * = value shown is a guidance value rather than a groundwater standard.
10. The equipment used to collect water quality data was calibrated prior to and during use in accordance with the manufacturer's recommendations.
11. DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 and 4/2021 appear erroneous.

Table 3

September 2021 Semi-Annual Groundwater Analytical Data Summary
Steel Winds I Facility
Lackawanna, New York

Parameter	NYSDEC Class GA Criteria	WT1-04					WT1-05					BCP-ORC-1				
		9/24/2019 Result	3/18/2020 Result	9/18/2020 Result	4/2/2021 Result	9/2/2021 Result	9/24/2019 Result	3/18/2020 Result	9/18/2020 Result	4/2/2021 Result	9/2/2021 Result	9/24/2019 Result	3/18/2020 Result	9/18/2020 Result	4/2/2021 Result	9/2/2021 Result
Water Quality Field Measurements																
pH (units)	6.5 - 8.5	**11.89**	**11.99**	8.28	8.27	**11.51**	**11.35**	**11.93**	**8.6**	7.83	**11.46**	**11.57**	**11.4**	**8.64**	7.85	**11.21**
Temperature (˚C)	NV	12.1	10.2	13.27	10.8	11.1	11.9	10.4	12.57	10.9	11.2	11.7	11.5	12.02	11.1	10.0
Specific Conductance (mS/cm)	NV	1.353	1.500	1.410	1.550	1.326	1.200	1.340	1.340	1.490	1.200	1.007	0.990	1.230	1.360	0.957
Turbidity (NTU)	5	3.0	1.31	**8.3**	**6.1**	3.76	2.8	3.02	4.6	**5.3**	1.74	2.6	**11.4**	2.1	**6.1**	2.17
Dissolved Oxygen (mg/L)	NV	0.07	0.77	1.9	4.3	1.0	0.16	0.72	100.90	77.30	1.2	0.29	3.16	4.2	16.5	4.7
Oxygen Reduction Potential (mV)	NV	-292.2	-267.7	-288	-223	-172.4	-209.6	-298.4	-190	-175	-157.2	-209.7	-228.3	-248	-207	-188.1
Volatile Organic Compounds - EPA Method 8260 (ug/L)																
Benzene	1	**20**	**13**	**16**	**7.2**	**14**	**9.4**	**17**	**10**	**9.0**	**9.3**	**26**	**25**	**22**	**29**	**27**
Toluene	5	3.6	2.7	3.1	1.7 J	2.3 J	2.1 J	3.9	2.6	3.0	2.6 J	3.3 J	2.8 J	2.8 J	4.3 J	4.0 J
Ethylbenzene	5	0.72 J	<	<	<	<	<	0.0 J	<	0.78 J	<	<	<	<	<	<
m,p-Xylene	5	**7.6**	**6.1**	**6.1**	3.7	4.1	**6.3**	**9.3**	**6.3**	**7.8**	**6.7**	3.3 J	2.5 J	2.1 J	**5.2 J**	3.9 J
o-Xylene	5	**6.4**	4.8	**5.2**	2.9	3.2	4.9	**7.2**	**5.4**	**5.7**	**5.1**	**5.8 J**	3.8 J	4.2 J	**6.8 J**	**6.1 J**
Xylene (Total)	15	14.0	10.9	11.3	6.6	7.3	11.2	**16.5**	11.7	14.0	11.8	9.1	6.3 J	6.3	12 J	10.0 J
1,3,5-Trimethylbenzene	5	2.3 J	2.6	2.6	2.3 J	2.2 J	1.8 J	3.1	2.4 J	3.1	3.1 J	1.8 J	<	1.8 J	<	<
1,2,4-Trimethylbenzene	5	1.9 J	2.1 J	2.2 J	1.8 J	1.7 J	2.1 J	3.6	2.8	3.6	3.5 J	2.2 J	2.1 J	2.4 J	3.4 J	3.0 J
Naphthalene*	10	**81**	**50**	**93**	**60**	**54**	**150**	**200**	**230**	**160**	**200**	**460**	**320**	**490**	**500**	**460**
Semi-Volatile Organic Compounds - EPA Method 8270 (ug/L)																
Acetophenone	NV	<	0.466 J	<	<	<	<	0.540 J	<	0.58 J	<	<	0.602 J	<	<	<
Acenaphthylene	NV	3.08	3.65	3.28	3.50	2.66	17.4	21.4	20.4	30.0	19.8	25.2	15.3	15.7	26	19.3
Naphthalene*	10	**49.3**	**43.9**	**43.6**	**36.00**	**31.1**	**107**	**143**	**108**	**150**	**111**	**309**	**211**	**198**	**240**	**246**
2-Methylnaphthalene	NV	8.29	9.44	7.04	8.50	6.14	20.0	24.0	17.4	29.0	18.2	23.4	19.4	14.9	24	22.7
Acenaphthene*	20	3.53	3.90	3.58	3.90	3.24	5.29	6.87	6.04	8.80	6.44	6.26	5.1	4.83	6.5	7.06
Dibenzofuran	NV	10.5	10.5	10.9	9.40	9.20	18.0	20.2	20.1	28.0	19.7	16.3	10.8	9.82	16	18.2
Fluorene*	50	16.0	16.6	17.2	19.00	14.3	25.7	27.2	27.3	42.0	27.0	26.6	17.4	17.7	30	29.0
Phenanthrene*	50	46.1	**50.2**	**53.1**	42.00	42.8	23.5	21.4	27.4	**56.0**	20.6	42.4	23.4	26.9	38	44.5
Dibenzo (a,h)Anthracene*	NV	<	<	<	0.04 J	<	<	<	<	1.6	<	<	<	<	<	<
Carbazole	NV	8.87	8.36	8.82	5.60	6.64	15.9	19.1	18.7	20.0	15.9	34.7	27.8	29.1	31	37.6
Anthracene*	50	5.69	7.50	6.19	6.00	5.10	2.82	2.37	2.47	13.00	2.44	5.60	2.56	1.91	3.8	3.59
Fluoranthene*	50	10.2	11.2	11.6	11.00	9.41	1.92	2.20	2.63	39.00	2.03	6.48	5.39	4.69	7.3	5.95
Biphenyl	5	2.2 J	2.20	1.86	1.9 J	1.67	4.35	4.98	4.31	**5.90**	4.39	3.93	2.95	2.42	3.9	4.03
Pyrene*	50	6.61	6.28	8.10	7.00	6.28	1.82	1.97	2.50	33.00	1.90	4.77	3.69	4.02	4.9	4.90
Butyl benzyl phthalate*	50	<	<	<	<	0.083 J	<	<	<	<	<	<	<	<	<	<
Benz [a] Anthracene*	0.002	<	**0.358 J**	**0.590**	**0.61**	**0.402 J**	<	<	**0.242 J**	**14**	<	<	**0.201 J**	**0.298 J**	**0.28**	**0.295 J**
Benzo [b] Fluoranthene*	0.002	<	<	**0.255 J**	**0.37**	**0.136 J**	<	<	**0.140 J**	**17**	<	<	<	**0.111 J**	**0.06 J**	<
Benzo [k] Fluoranthene*	0.002	<	<	<	**0.15**	<	<	<	<	**5.6**	<	<	<	<	**0.01 J**	<
Benzo [a] Pyrene	ND	<	<	**0.156 J**	**0.27**	**0.091 J**	<	<	**0.092 J**	**12**	<	<	<	**0.065 J**	**0.02 J**	<
Indeno [1,2,3-cd] Pyrene	0.002	<	<	**0.110 J**	**0.19**	<	<	<	<	**8.6**	<	<	<	<	<	<
Benzo (g,h,i) Perylene	NV	<	<	0.114 J	0.17	<	<	<	<	7.6	<	<	<	<	<	<
Chrysene*	0.002	<	**0.314 J**	**0.461 J**	**0.48**	**0.331 J**	<	<	**0.198 J**	**14**	<	<	**0.156 J**	**0.208 J**	**0.19**	**0.225 J**
bis(2-Ethylhexyl)Phthalate	5	<	<	0.086 JB	<	<	<	0.499	0.094 JB	4.0	<	<	0.089 J	<	<	<

Notes:
1. Compounds detected in one or more sample for the past five sampling events are presented on this table. Refer to Appendix B for list of all compounds included in analysis.
2. Analytical testing completed by Alpha Analytical in Westborough, MA.
3. NYSDEC Groundwater Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, errata January 1999 and amended April 2000 (Class GA).
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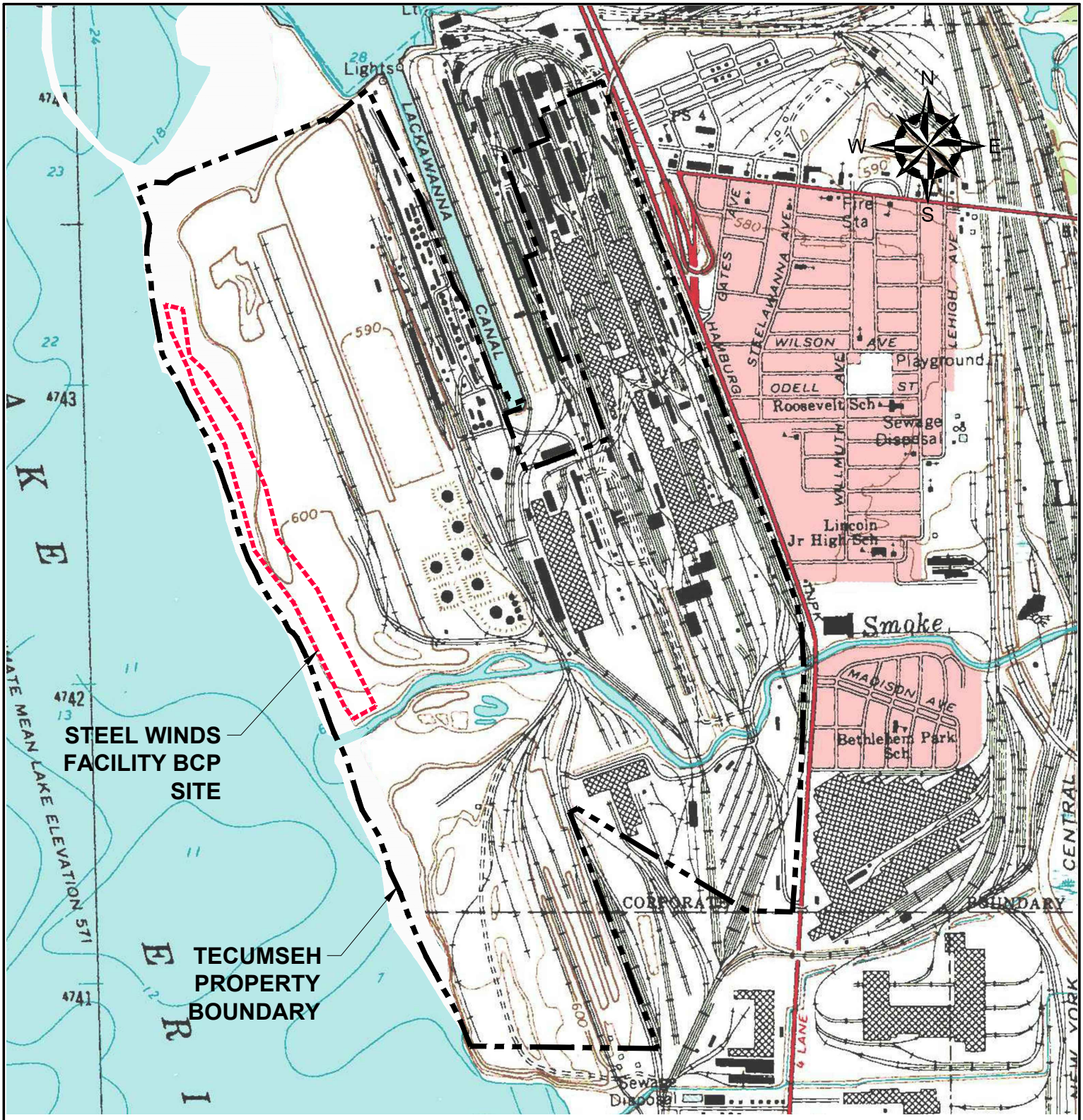
8. "D" qualifier = indicates the compound concentration was obtained from a secondary dilution analysis.
7. Value shown in **bold** indicates exceedance of respective Class GA Criteria or guidance value.
8. NV = no value, NT = not tested, ND = Not detected above method detection limit
9. * = value shown is a guidance value rather than a groundwater standard.
10. The equipment used to collect water quality data was calibrated prior to and during use in accordance with the manufacturer's recommendations.
11. DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 and 4/2021 appear erroneous.

FIGURES



NEW YORK

NOTE:
BASE MAP ADAPTED FROM A 1965
U.S.G.S. TOPOGRAPHIC MAPS
DOWNLOADED FROM http://store.usgs.gov

0 750 1500 3000
SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
300 PEARL STREET, SUITE 700
BUFFALO, NEW YORK 14202
(716) 685-2300

PREPARED FOR:
NIAGARA WIND POWER, LLC./

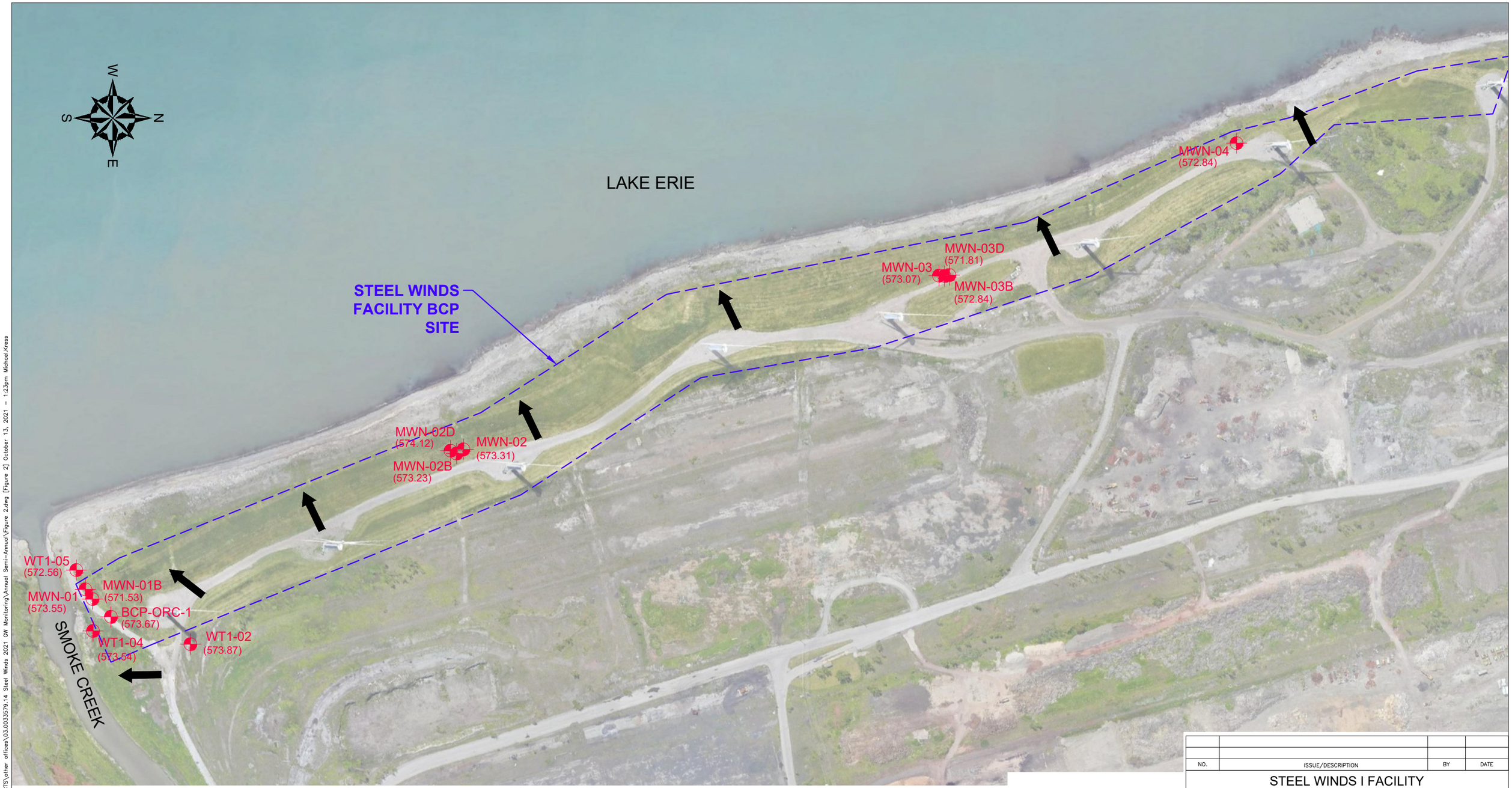
STEEL WINDS I FACILITY
ROUTE 5
LACKAWANNA, NEW YORK

2021 ANNUAL/SEMI-ANNUAL GROUNDWATER MONITORING REPORT

LOCUS PLAN

FIGURE
1

PROJ MGR: DJT	REVIEWED BY: EAS	CHECKED BY:	DATE	PROJECT NO.	REVISION NO.
DESIGNED BY:	DRAWN BY: MDK	SCALE: AS SHOWN	OCTOBER 2021	03.0033579.14	



LEGEND:

MWN-01 (573.55) — APPROXIMATE LOCATION AND DESIGNATION OF EXISTING MONITORING WELLS SHOWN WITH GROUNDWATER ELEVATIONS MEASURED BY GZA IN SEPTEMBER 2021

PRESUMED GROUNDWATER FLOW DIRECTION

NOTES:

1. BASE MAP ADAPTED FROM AN AERIAL PHOTO DOWNLOADED FROM GOOGLE EARTH AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

0 150 300 600
SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

STEEL WINDS I FACILITY
ROUTE 5
LACKAWANNA, NEW YORK

2021 ANNUAL/SEMI-ANNUAL GROUNDWATER MONITORING REPORT
SITE PLAN

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
300 PEARL STREET, SUITE 700
BUFFALO, NEW YORK 14202
(716) 685-2300

PREPARED FOR:
NIAGARA WIND POWER, LLC.

PROJ MGR: DJT	REVIEWED BY: EAS	CHECKED BY:	FIGURE 2
DESIGNED BY:	DRAWN BY: MDK	SCALE: AS SHOWN	
DATE OCTOBER 2021	PROJECT NO. 03.0033579.14	REVISION NO.	

APPENDIX A

LIMITATIONS

GEOHYDROLOGICAL LIMITATIONS

Use of Report

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

Standard of Care

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).

3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.

4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

Subsurface Conditions

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

6. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

Compliance with Codes and Regulations

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

Screening and Analytical Testing

8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.

9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.

10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

Interpretation of Data

11. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

Additional Information

12. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

Additional Services

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.

APPENDIX B

ANALYTICAL TEST RESULTS

ANALYTICAL REPORT

Lab Number:	L2147480
Client:	GZA GeoEnvironmental of New York 300 Pearl Street Suite 700 Buffalo, NY 14202
ATTN:	Dan Troy
Phone:	(716) 844-7050
Project Name:	STEEL WINDS ANNUAL/SEMI ANNUAL
Project Number:	03.0033579.14
Report Date:	10/06/21

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL
Project Number: 03.0033579.14

Lab Number: L2147480
Report Date: 10/06/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2147480-01	WT1-05-090221	WATER	LACKAWANNA, NY	09/02/21 08:17	09/02/21
L2147480-02	MWN-01-090221	WATER	LACKAWANNA, NY	09/02/21 09:15	09/02/21
L2147480-03	MWN-01B-090221	WATER	LACKAWANNA, NY	09/02/21 10:20	09/02/21
L2147480-04	WT1-04-090221	WATER	LACKAWANNA, NY	09/02/21 11:10	09/02/21
L2147480-05	BCP-ORC-1-090221	WATER	LACKAWANNA, NY	09/02/21 12:10	09/02/21
L2147480-06	WT1-02-090221	WATER	LACKAWANNA, NY	09/02/21 12:55	09/02/21
L2147480-07	MWN-03-090221	WATER	LACKAWANNA, NY	09/02/21 15:05	09/02/21
L2147480-08	TRIP BLANK	WATER	LACKAWANNA, NY	09/02/21 00:00	09/02/21
L2147480-09	MWN-04-090221	WATER	LACKAWANNA, NY	09/02/21 15:55	09/02/21

Project Name:	STEEL WINDS ANNUAL/SEMI ANNUAL	**Lab Number:**	L2147480
Project Number:	03.0033579.14	**Report Date:**	10/06/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	STEEL WINDS ANNUAL/SEMI ANNUAL	**Lab Number:**	L2147480
Project Number:	03.0033579.14	**Report Date:**	10/06/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics

L2147480-03RE/D: The sample has elevated detection limits due to the dilution required by the sample matrix. The WG1543557-3 LCSD recoveries, associated with L2147480-01 through -07 and -09, were below the acceptance criteria for 1,3-dichlorobenzene (10%), 1,4-dichlorobenzene (10%), 1,2-dichlorobenzene (13%), hexachloroethane (5%), 1,2,4-trichlorobenzene (13%), naphthalene (31%), hexachlorobutadiene (5%), 2-methylnaphthalene (29%), 1,2,4,5-tetrachlorobenzene (21%), hexachlorocyclopentadiene (3%), and 2-chloronaphthalene (35%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kelly Stenstrom

Title: Technical Director/Representative Date: 10/06/21

ORGANICS

VOLATILES

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-01 D
Client ID: WT1-05-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 08:17
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/13/21 17:23
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	9.3		ug/l	1.0	0.32	2
Toluene	2.6	J	ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Methyl tert butyl ether	ND		ug/l	5.0	1.4	2
p/m-Xylene	6.7		ug/l	5.0	1.4	2
o-Xylene	5.1		ug/l	5.0	1.4	2
n-Butylbenzene	ND		ug/l	5.0	1.4	2
sec-Butylbenzene	ND		ug/l	5.0	1.4	2
tert-Butylbenzene	ND		ug/l	5.0	1.4	2
Isopropylbenzene	ND		ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
Naphthalene	200		ug/l	5.0	1.4	2
n-Propylbenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	3.1	J	ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	3.5	J	ug/l	5.0	1.4	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	105		70-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-02 D
Client ID: MWN-01-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 09:15
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/13/21 16:42
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	14		ug/l	1.0	0.32	2
Toluene	3.6	J	ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Methyl tert butyl ether	ND		ug/l	5.0	1.4	2
p/m-Xylene	8.7		ug/l	5.0	1.4	2
o-Xylene	6.5		ug/l	5.0	1.4	2
n-Butylbenzene	ND		ug/l	5.0	1.4	2
sec-Butylbenzene	ND		ug/l	5.0	1.4	2
tert-Butylbenzene	ND		ug/l	5.0	1.4	2
Isopropylbenzene	ND		ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
Naphthalene	270		ug/l	5.0	1.4	2
n-Propylbenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	4.2	J	ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	4.6	J	ug/l	5.0	1.4	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	105		70-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-03 D
Client ID: MWN-01B-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 10:20
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/13/21 17:02
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	55		ug/l	5.0	1.6	10
Toluene	19	J	ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	12	J	ug/l	25	7.0	10
o-Xylene	9.0	J	ug/l	25	7.0	10
n-Butylbenzene	ND		ug/l	25	7.0	10
sec-Butylbenzene	ND		ug/l	25	7.0	10
tert-Butylbenzene	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	1500		ug/l	25	7.0	10
n-Propylbenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	ND		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	7.1	J	ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	105		70-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-04
Client ID: WT1-04-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 11:10
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/13/21 15:41
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	14		ug/l	0.50	0.16	1
Toluene	2.3	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	4.1		ug/l	2.5	0.70	1
o-Xylene	3.2		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	54		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	2.2	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	1.7	J	ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	104		70-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-05 D
Client ID: BCP-ORC-1-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 12:10
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/13/21 17:43
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	27		ug/l	2.0	0.64	4
Toluene	4.0	J	ug/l	10	2.8	4
Ethylbenzene	ND		ug/l	10	2.8	4
Methyl tert butyl ether	ND		ug/l	10	2.8	4
p/m-Xylene	3.9	J	ug/l	10	2.8	4
o-Xylene	6.1	J	ug/l	10	2.8	4
n-Butylbenzene	ND		ug/l	10	2.8	4
sec-Butylbenzene	ND		ug/l	10	2.8	4
tert-Butylbenzene	ND		ug/l	10	2.8	4
Isopropylbenzene	ND		ug/l	10	2.8	4
p-Isopropyltoluene	ND		ug/l	10	2.8	4
Naphthalene	460		ug/l	10	2.8	4
n-Propylbenzene	ND		ug/l	10	2.8	4
1,3,5-Trimethylbenzene	ND		ug/l	10	2.8	4
1,2,4-Trimethylbenzene	3.0	J	ug/l	10	2.8	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	105		70-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-06
Client ID: WT1-02-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 12:55
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/13/21 16:01
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	12		ug/l	0.50	0.16	1
Toluene	2.4	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	4.2		ug/l	2.5	0.70	1
o-Xylene	3.0		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	43		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	2.0	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	1.5	J	ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	106		70-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-07
Client ID: MWN-03-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 15:05
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/13/21 16:22
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	7.1		ug/l	0.50	0.16	1
Toluene	1.8	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	1.3	J	ug/l	2.5	0.70	1
o-Xylene	1.4	J	ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	19		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	0.93	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	104		70-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-08
Client ID: TRIP BLANK
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 00:00
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/13/21 15:00
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	106		70-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-09
Client ID: MWN-04-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 15:55
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/13/21 15:20
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	109		70-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/13/21 10:56
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1546223-5					
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147480

Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1546223-3 WG1546223-4								
Benzene	100		99		70-130	1		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Methyl tert butyl ether	67		68		63-130	1		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	100		110		70-130	10		20
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	98		100		70-130	2		20
n-Propylbenzene	110		120		69-130	9		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		104		70-130
Toluene-d8	105		104		70-130
4-Bromofluorobenzene	114		113		70-130
Dibromofluoromethane	100		101		70-130

SEMIVOLATILES

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-01
Client ID: WT1-05-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 08:17
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/25/21 23:13
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.495	0.092	1
1,3-Dichlorobenzene	ND		ug/l	0.495	0.078	1
1,4-Dichlorobenzene	ND		ug/l	0.495	0.082	1
1,2-Dichlorobenzene	ND		ug/l	0.495	0.067	1
Benzyl alcohol	ND		ug/l	0.495	0.122	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.495	0.107	1
Acetophenone	ND		ug/l	0.990	0.205	1
Hexachloroethane	ND		ug/l	0.495	0.101	1
Nitrobenzene	ND		ug/l	0.495	0.101	1
Isophorone	ND		ug/l	0.495	0.125	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.495	0.085	1
1,2,4-Trichlorobenzene	ND		ug/l	0.495	0.095	1
Naphthalene	72.7	E	ug/l	0.495	0.087	1
4-Chloroaniline	ND		ug/l	0.495	0.127	1
Hexachlorobutadiene	ND		ug/l	0.495	0.085	1
2-Methylnaphthalene	18.2		ug/l	0.495	0.090	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.495	0.079	1
Hexachlorocyclopentadiene	ND		ug/l	0.495	0.151	1
Biphenyl	4.39		ug/l	0.495	0.110	1
2-Chloronaphthalene	ND		ug/l	0.495	0.089	1
2-Nitroaniline	ND		ug/l	0.495	0.137	1
Acenaphthylene	19.8		ug/l	0.495	0.111	1
Dimethylphthalate	ND		ug/l	0.495	0.116	1
2,6-Dinitrotoluene	ND		ug/l	0.495	0.166	1
Acenaphthene	6.44		ug/l	0.495	0.095	1
3-Nitroaniline	ND		ug/l	0.495	0.110	1
Dibenzofuran	19.7		ug/l	0.495	0.090	1
2,4-Dinitrotoluene	ND		ug/l	0.495	0.161	1

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-01 Date Collected: 09/02/21 08:17

Client ID: WT1-05-090221 Date Received: 09/02/21

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	27.1	E	ug/l	0.495	0.103	1
Diethylphthalate	ND		ug/l	0.495	0.178	1
4-Nitroaniline	ND		ug/l	0.495	0.111	1
n-Nitrosodiphenylamine	ND		ug/l	0.495	0.071	1
Hexachlorobenzene	ND		ug/l	0.495	0.121	1
Phenanthrene	20.6		ug/l	0.495	0.110	1
Anthracene	2.44		ug/l	0.495	0.136	1
Carbazole	15.9		ug/l	0.495	0.142	1
Di-n-butylphthalate	ND		ug/l	0.495	0.099	1
Fluoranthene	2.03		ug/l	0.495	0.154	1
Pyrene	1.90		ug/l	0.495	0.168	1
Butylbenzylphthalate	ND		ug/l	0.495	0.084	1
3,3'-Dichlorobenzidine	ND		ug/l	0.495	0.191	1
Benz(a)anthracene	ND		ug/l	0.495	0.182	1
Chrysene	ND		ug/l	0.495	0.140	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.495	0.080	1
Di-n-octylphthalate	ND		ug/l	0.990	0.078	1
Benzo(b)fluoranthene	ND		ug/l	0.495	0.065	1
Benzo(k)fluoranthene	ND		ug/l	0.495	0.159	1
Benzo(a)pyrene	ND		ug/l	0.495	0.060	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.495	0.089	1
Dibenz(a,h)anthracene	ND		ug/l	0.495	0.064	1
Benzo(g,h,i)perylene	ND		ug/l	0.495	0.108	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		15-115
Phenol-d5	32		15-115
Nitrobenzene-d5	67		30-130
2-Fluorobiphenyl	72		30-130
2,4,6-Tribromophenol	82		15-115
Terphenyl-d14	84		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-01 RE
Client ID: WT1-05-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 08:17
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/01/21 11:30
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.495	0.092	1
1,3-Dichlorobenzene	ND		ug/l	0.495	0.078	1
1,4-Dichlorobenzene	ND		ug/l	0.495	0.082	1
1,2-Dichlorobenzene	ND		ug/l	0.495	0.067	1
Benzyl alcohol	ND		ug/l	0.495	0.122	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.495	0.107	1
Acetophenone	0.496	J	ug/l	0.990	0.205	1
Hexachloroethane	ND		ug/l	0.495	0.101	1
Nitrobenzene	ND		ug/l	0.495	0.101	1
Isophorone	ND		ug/l	0.495	0.125	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.495	0.085	1
1,2,4-Trichlorobenzene	ND		ug/l	0.495	0.095	1
Naphthalene	23.3		ug/l	0.495	0.087	1
4-Chloroaniline	ND		ug/l	0.495	0.127	1
Hexachlorobutadiene	ND		ug/l	0.495	0.085	1
2-Methylnaphthalene	9.71		ug/l	0.495	0.090	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.495	0.079	1
Hexachlorocyclopentadiene	ND		ug/l	0.495	0.151	1
Biphenyl	ND		ug/l	0.495	0.110	1
2-Chloronaphthalene	ND		ug/l	0.495	0.089	1
2-Nitroaniline	ND		ug/l	0.495	0.137	1
Acenaphthylene	12.7		ug/l	0.495	0.111	1
Dimethylphthalate	ND		ug/l	0.495	0.116	1
2,6-Dinitrotoluene	ND		ug/l	0.495	0.166	1
Acenaphthene	5.42		ug/l	0.495	0.095	1
3-Nitroaniline	ND		ug/l	0.495	0.110	1
Dibenzofuran	0.316	J	ug/l	0.495	0.090	1
2,4-Dinitrotoluene	ND		ug/l	0.495	0.161	1

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-01 RE
Client ID: WT1-05-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 08:17
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	17.8		ug/l	0.495	0.103	1
Diethylphthalate	ND		ug/l	0.495	0.178	1
4-Nitroaniline	ND		ug/l	0.495	0.111	1
n-Nitrosodiphenylamine	ND		ug/l	0.495	0.071	1
Hexachlorobenzene	ND		ug/l	0.495	0.121	1
Phenanthrene	1.92		ug/l	0.495	0.110	1
Anthracene	0.727		ug/l	0.495	0.136	1
Carbazole	2.01		ug/l	0.495	0.142	1
Di-n-butylphthalate	ND		ug/l	0.495	0.099	1
Fluoranthene	2.12		ug/l	0.495	0.154	1
Pyrene	2.05		ug/l	0.495	0.168	1
Butylbenzylphthalate	ND		ug/l	0.495	0.084	1
3,3'-Dichlorobenzidine	ND		ug/l	0.495	0.191	1
Benz(a)anthracene	ND		ug/l	0.495	0.182	1
Chrysene	ND		ug/l	0.495	0.140	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.495	0.080	1
Di-n-octylphthalate	ND		ug/l	0.990	0.078	1
Benzo(b)fluoranthene	ND		ug/l	0.495	0.065	1
Benzo(k)fluoranthene	ND		ug/l	0.495	0.159	1
Benzo(a)pyrene	ND		ug/l	0.495	0.060	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.495	0.089	1
Dibenz(a,h)anthracene	ND		ug/l	0.495	0.064	1
Benzo(g,h,i)perylene	ND		ug/l	0.495	0.108	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		15-115
Phenol-d5	33		15-115
Nitrobenzene-d5	83		30-130
2-Fluorobiphenyl	76		30-130
2,4,6-Tribromophenol	92		15-115
Terphenyl-d14	87		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-01 D
Client ID: WT1-05-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 08:17
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/27/21 22:44
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Naphthalene	111		ug/l	2.48	0.434	5
Fluorene	27.0		ug/l	2.48	0.515	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		15-115
Phenol-d5	32		15-115
Nitrobenzene-d5	76		30-130
2-Fluorobiphenyl	73		30-130
2,4,6-Tribromophenol	78		15-115
Terphenyl-d14	87		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-02
Client ID: MWN-01-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 09:15
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/25/21 23:46
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.495	0.092	1
1,3-Dichlorobenzene	ND		ug/l	0.495	0.078	1
1,4-Dichlorobenzene	ND		ug/l	0.495	0.082	1
1,2-Dichlorobenzene	ND		ug/l	0.495	0.067	1
Benzyl alcohol	ND		ug/l	0.495	0.122	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.495	0.107	1
Acetophenone	ND		ug/l	0.990	0.205	1
Hexachloroethane	ND		ug/l	0.495	0.101	1
Nitrobenzene	ND		ug/l	0.495	0.101	1
Isophorone	ND		ug/l	0.495	0.125	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.495	0.085	1
1,2,4-Trichlorobenzene	ND		ug/l	0.495	0.095	1
Naphthalene	72.8	E	ug/l	0.495	0.087	1
4-Chloroaniline	ND		ug/l	0.495	0.127	1
Hexachlorobutadiene	ND		ug/l	0.495	0.085	1
2-Methylnaphthalene	21.9		ug/l	0.495	0.090	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.495	0.079	1
Hexachlorocyclopentadiene	ND		ug/l	0.495	0.151	1
Biphenyl	5.85		ug/l	0.495	0.110	1
2-Chloronaphthalene	ND		ug/l	0.495	0.089	1
2-Nitroaniline	ND		ug/l	0.495	0.137	1
Acenaphthylene	22.3		ug/l	0.495	0.111	1
Dimethylphthalate	ND		ug/l	0.495	0.116	1
2,6-Dinitrotoluene	ND		ug/l	0.495	0.166	1
Acenaphthene	8.66		ug/l	0.495	0.095	1
3-Nitroaniline	ND		ug/l	0.495	0.110	1
Dibenzofuran	33.1	E	ug/l	0.495	0.090	1
2,4-Dinitrotoluene	ND		ug/l	0.495	0.161	1

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-02 Date Collected: 09/02/21 09:15

Client ID: MWN-01-090221 Date Received: 09/02/21

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	50.1	E	ug/l	0.495	0.103	1
Diethylphthalate	ND		ug/l	0.495	0.178	1
4-Nitroaniline	ND		ug/l	0.495	0.111	1
n-Nitrosodiphenylamine	ND		ug/l	0.495	0.071	1
Hexachlorobenzene	ND		ug/l	0.495	0.121	1
Phenanthrene	82.3	E	ug/l	0.495	0.110	1
Anthracene	7.74		ug/l	0.495	0.136	1
Carbazole	19.6		ug/l	0.495	0.142	1
Di-n-butylphthalate	ND		ug/l	0.495	0.099	1
Fluoranthene	9.44		ug/l	0.495	0.154	1
Pyrene	6.16		ug/l	0.495	0.168	1
Butylbenzylphthalate	0.104	J	ug/l	0.495	0.084	1
3,3'-Dichlorobenzidine	ND		ug/l	0.495	0.191	1
Benz(a)anthracene	ND		ug/l	0.495	0.182	1
Chrysene	0.216	J	ug/l	0.495	0.140	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.495	0.080	1
Di-n-octylphthalate	ND		ug/l	0.990	0.078	1
Benzo(b)fluoranthene	ND		ug/l	0.495	0.065	1
Benzo(k)fluoranthene	ND		ug/l	0.495	0.159	1
Benzo(a)pyrene	ND		ug/l	0.495	0.060	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.495	0.089	1
Dibenz(a,h)anthracene	ND		ug/l	0.495	0.064	1
Benzo(g,h,i)perylene	ND		ug/l	0.495	0.108	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		15-115
Phenol-d5	41		15-115
Nitrobenzene-d5	73		30-130
2-Fluorobiphenyl	76		30-130
2,4,6-Tribromophenol	89		15-115
Terphenyl-d14	91		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL
Lab Number: L2147480
Project Number: 03.0033579.14
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-02 RE/D
Client ID: MWN-01-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 09:15
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/04/21 16:16
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	34.6		ug/l	2.45	0.510	5
Phenanthrene	94.0		ug/l	2.45	0.544	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		15-115
Phenol-d5	41		15-115
Nitrobenzene-d5	106		30-130
2-Fluorobiphenyl	89		30-130
2,4,6-Tribromophenol	102		15-115
Terphenyl-d14	92		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-02 RE
Client ID: MWN-01-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 09:15
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/01/21 12:01
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.490	0.091	1
1,3-Dichlorobenzene	ND		ug/l	0.490	0.077	1
1,4-Dichlorobenzene	ND		ug/l	0.490	0.081	1
1,2-Dichlorobenzene	ND		ug/l	0.490	0.067	1
Benzyl alcohol	ND		ug/l	0.490	0.120	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.490	0.106	1
Acetophenone	0.462	J	ug/l	0.980	0.203	1
Hexachloroethane	ND		ug/l	0.490	0.100	1
Nitrobenzene	ND		ug/l	0.490	0.100	1
Isophorone	ND		ug/l	0.490	0.124	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.490	0.084	1
1,2,4-Trichlorobenzene	ND		ug/l	0.490	0.094	1
Naphthalene	ND		ug/l	0.490	0.086	1
4-Chloroaniline	ND		ug/l	0.490	0.125	1
Hexachlorobutadiene	ND		ug/l	0.490	0.084	1
2-Methylnaphthalene	ND		ug/l	0.490	0.089	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.490	0.078	1
Hexachlorocyclopentadiene	ND		ug/l	0.490	0.150	1
Biphenyl	ND		ug/l	0.490	0.109	1
2-Chloronaphthalene	ND		ug/l	0.490	0.088	1
2-Nitroaniline	ND		ug/l	0.490	0.135	1
Acenaphthylene	3.94		ug/l	0.490	0.110	1
Dimethylphthalate	ND		ug/l	0.490	0.115	1
2,6-Dinitrotoluene	ND		ug/l	0.490	0.165	1
Acenaphthene	8.54		ug/l	0.490	0.094	1
3-Nitroaniline	ND		ug/l	0.490	0.109	1
Dibenzofuran	ND		ug/l	0.490	0.089	1
2,4-Dinitrotoluene	ND		ug/l	0.490	0.160	1

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-02 RE
Client ID: MWN-01-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 09:15
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	33.8	E	ug/l	0.490	0.102	1
Diethylphthalate	ND		ug/l	0.490	0.176	1
4-Nitroaniline	ND		ug/l	0.490	0.110	1
n-Nitrosodiphenylamine	ND		ug/l	0.490	0.071	1
Hexachlorobenzene	ND		ug/l	0.490	0.120	1
Phenanthrene	86.9	E	ug/l	0.490	0.109	1
Anthracene	1.68		ug/l	0.490	0.134	1
Carbazole	0.210	J	ug/l	0.490	0.140	1
Di-n-butylphthalate	ND		ug/l	0.490	0.098	1
Fluoranthene	11.8		ug/l	0.490	0.153	1
Pyrene	7.38		ug/l	0.490	0.167	1
Butylbenzylphthalate	0.107	J	ug/l	0.490	0.083	1
3,3'-Dichlorobenzidine	ND		ug/l	0.490	0.189	1
Benz(a)anthracene	0.393	J	ug/l	0.490	0.180	1
Chrysene	0.277	J	ug/l	0.490	0.139	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.490	0.079	1
Di-n-octylphthalate	ND		ug/l	0.980	0.077	1
Benzo(b)fluoranthene	ND		ug/l	0.490	0.064	1
Benzo(k)fluoranthene	ND		ug/l	0.490	0.158	1
Benzo(a)pyrene	ND		ug/l	0.490	0.059	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.490	0.088	1
Dibenz(a,h)anthracene	ND		ug/l	0.490	0.063	1
Benzo(g,h,i)perylene	ND		ug/l	0.490	0.107	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		15-115
Phenol-d5	37		15-115
Nitrobenzene-d5	91		30-130
2-Fluorobiphenyl	82		30-130
2,4,6-Tribromophenol	83		15-115
Terphenyl-d14	84		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-02 D
Client ID: MWN-01-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 09:15
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/27/21 23:17
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Naphthalene	96.2		ug/l	2.48	0.434	5
Dibenzofuran	28.9		ug/l	2.48	0.450	5
Fluorene	41.9		ug/l	2.48	0.515	5
Phenanthrene	71.0		ug/l	2.48	0.550	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		15-115
Phenol-d5	38		15-115
Nitrobenzene-d5	75		30-130
2-Fluorobiphenyl	69		30-130
2,4,6-Tribromophenol	77		15-115
Terphenyl-d14	87		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-03
Client ID: MWN-01B-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 10:20
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/26/21 05:16
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.485	0.090	1
1,3-Dichlorobenzene	ND		ug/l	0.485	0.076	1
1,4-Dichlorobenzene	ND		ug/l	0.485	0.080	1
1,2-Dichlorobenzene	ND		ug/l	0.485	0.066	1
Benzyl alcohol	ND		ug/l	0.485	0.119	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.485	0.105	1
Acetophenone	ND		ug/l	0.971	0.201	1
Hexachloroethane	ND		ug/l	0.485	0.099	1
Nitrobenzene	ND		ug/l	0.485	0.099	1
Isophorone	ND		ug/l	0.485	0.122	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.485	0.083	1
1,2,4-Trichlorobenzene	ND		ug/l	0.485	0.093	1
Naphthalene	415	E	ug/l	0.485	0.085	1
4-Chloroaniline	ND		ug/l	0.485	0.124	1
Hexachlorobutadiene	ND		ug/l	0.485	0.083	1
2-Methylnaphthalene	77.7	E	ug/l	0.485	0.088	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.485	0.077	1
Hexachlorocyclopentadiene	ND		ug/l	0.485	0.148	1
Biphenyl	7.45		ug/l	0.485	0.108	1
2-Chloronaphthalene	ND		ug/l	0.485	0.087	1
2-Nitroaniline	ND		ug/l	0.485	0.134	1
Acenaphthylene	44.0		ug/l	0.485	0.109	1
Dimethylphthalate	ND		ug/l	0.485	0.114	1
2,6-Dinitrotoluene	ND		ug/l	0.485	0.163	1
Acenaphthene	12.0		ug/l	0.485	0.093	1
3-Nitroaniline	ND		ug/l	0.485	0.108	1
Dibenzofuran	30.3		ug/l	0.485	0.088	1
2,4-Dinitrotoluene	ND		ug/l	0.485	0.158	1

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-03 Date Collected: 09/02/21 10:20

Client ID: MWN-01B-090221 Date Received: 09/02/21

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	43.7		ug/l	0.485	0.101	1
Diethylphthalate	ND		ug/l	0.485	0.175	1
4-Nitroaniline	ND		ug/l	0.485	0.109	1
n-Nitrosodiphenylamine	ND		ug/l	0.485	0.070	1
Hexachlorobenzene	ND		ug/l	0.485	0.118	1
Phenanthrene	73.8	E	ug/l	0.485	0.108	1
Anthracene	8.19		ug/l	0.485	0.133	1
Carbazole	67.6	E	ug/l	0.485	0.139	1
Di-n-butylphthalate	ND		ug/l	0.485	0.097	1
Fluoranthene	8.97		ug/l	0.485	0.151	1
Pyrene	6.44		ug/l	0.485	0.165	1
Butylbenzylphthalate	ND		ug/l	0.485	0.082	1
3,3'-Dichlorobenzidine	ND		ug/l	0.485	0.187	1
Benz(a)anthracene	0.461	J	ug/l	0.485	0.179	1
Chrysene	0.256	J	ug/l	0.485	0.138	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.485	0.079	1
Di-n-octylphthalate	ND		ug/l	0.971	0.076	1
Benzo(b)fluoranthene	0.105	J	ug/l	0.485	0.064	1
Benzo(k)fluoranthene	ND		ug/l	0.485	0.156	1
Benzo(a)pyrene	0.072	J	ug/l	0.485	0.058	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.485	0.087	1
Dibenz(a,h)anthracene	ND		ug/l	0.485	0.062	1
Benzo(g,h,i)perylene	ND		ug/l	0.485	0.106	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		15-115
Phenol-d5	38		15-115
Nitrobenzene-d5	**147**	Q	30-130
2-Fluorobiphenyl	84		30-130
2,4,6-Tribromophenol	91		15-115
Terphenyl-d14	90		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-03 RE/D
Client ID: MWN-01B-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 10:20
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/04/21 16:47
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	24.3	4.51	50
1,3-Dichlorobenzene	ND		ug/l	24.3	3.80	50
1,4-Dichlorobenzene	ND		ug/l	24.3	4.02	50
1,2-Dichlorobenzene	ND		ug/l	24.3	3.30	50
Benzyl alcohol	ND		ug/l	24.3	5.97	50
bis(2-chloroisopropyl)ether	ND		ug/l	24.3	5.24	50
Acetophenone	ND		ug/l	48.5	10.0	50
Hexachloroethane	ND		ug/l	24.3	4.95	50
Nitrobenzene	ND		ug/l	24.3	4.95	50
Isophorone	ND		ug/l	24.3	6.12	50
bis(2-Chloroethoxy)methane	ND		ug/l	24.3	4.14	50
1,2,4-Trichlorobenzene	ND		ug/l	24.3	4.66	50
Naphthalene	970		ug/l	24.3	4.25	50
4-Chloroaniline	ND		ug/l	24.3	6.21	50
Hexachlorobutadiene	ND		ug/l	24.3	4.15	50
2-Methylnaphthalene	31.6		ug/l	24.3	4.42	50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	24.3	3.87	50
Hexachlorocyclopentadiene	ND		ug/l	24.3	7.43	50
Biphenyl	5.87	J	ug/l	24.3	5.39	50
2-Chloronaphthalene	ND		ug/l	24.3	4.36	50
2-Nitroaniline	ND		ug/l	24.3	6.70	50
Acenaphthylene	33.0		ug/l	24.3	5.44	50
Dimethylphthalate	ND		ug/l	24.3	5.68	50
2,6-Dinitrotoluene	ND		ug/l	24.3	8.16	50
Acenaphthene	12.1	J	ug/l	24.3	4.64	50
3-Nitroaniline	ND		ug/l	24.3	5.39	50
Dibenzofuran	23.3	J	ug/l	24.3	4.42	50
2,4-Dinitrotoluene	ND		ug/l	24.3	7.91	50

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-03 RE/D
Client ID: MWN-01B-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 10:20
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	42.6		ug/l	24.3	5.05	50
Diethylphthalate	ND		ug/l	24.3	8.74	50
4-Nitroaniline	ND		ug/l	24.3	5.44	50
n-Nitrosodiphenylamine	ND		ug/l	24.3	3.50	50
Hexachlorobenzene	ND		ug/l	24.3	5.92	50
Phenanthrene	82.8		ug/l	24.3	5.39	50
Anthracene	8.06	J	ug/l	24.3	6.65	50
Carbazole	52.0		ug/l	24.3	6.94	50
Di-n-butylphthalate	ND		ug/l	24.3	4.83	50
Fluoranthene	12.5	J	ug/l	24.3	7.57	50
Pyrene	ND		ug/l	24.3	8.25	50
Butylbenzylphthalate	ND		ug/l	24.3	4.12	50
3,3'-Dichlorobenzidine	ND		ug/l	24.3	9.37	50
Benz(a)anthracene	ND		ug/l	24.3	8.93	50
Chrysene	ND		ug/l	24.3	6.89	50
bis(2-Ethylhexyl)phthalate	ND		ug/l	24.3	3.93	50
Di-n-octylphthalate	ND		ug/l	48.5	3.82	50
Benzo(b)fluoranthene	ND		ug/l	24.3	3.18	50
Benzo(k)fluoranthene	ND		ug/l	24.3	7.82	50
Benzo(a)pyrene	ND		ug/l	24.3	2.92	50
Indeno(1,2,3-cd)pyrene	ND		ug/l	24.3	4.35	50
Dibenz(a,h)anthracene	ND		ug/l	24.3	3.11	50
Benzo(g,h,i)perylene	ND		ug/l	24.3	5.29	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		15-115
Phenol-d5	43		15-115
Nitrobenzene-d5	115		30-130
2-Fluorobiphenyl	98		30-130
2,4,6-Tribromophenol	108		15-115
Terphenyl-d14	101		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL
Lab Number: L2147480
Project Number: 03.0033579.14
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-03 D
Client ID: MWN-01B-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 10:20
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/28/21 00:23
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Naphthalene	962		ug/l	12.1	2.13	25
2-Methylnaphthalene	35.8		ug/l	12.1	2.21	25
Phenanthrene	61.9		ug/l	12.1	2.69	25
Carbazole	60.0		ug/l	12.1	3.47	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		15-115
Phenol-d5	32		15-115
Nitrobenzene-d5	81		30-130
2-Fluorobiphenyl	76		30-130
2,4,6-Tribromophenol	75		15-115
Terphenyl-d14	88		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-04
Client ID: WT1-04-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 11:10
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/26/21 03:03
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.485	0.090	1
1,3-Dichlorobenzene	ND		ug/l	0.485	0.076	1
1,4-Dichlorobenzene	ND		ug/l	0.485	0.080	1
1,2-Dichlorobenzene	ND		ug/l	0.485	0.066	1
Benzyl alcohol	ND		ug/l	0.485	0.119	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.485	0.105	1
Acetophenone	ND		ug/l	0.971	0.201	1
Hexachloroethane	ND		ug/l	0.485	0.099	1
Nitrobenzene	ND		ug/l	0.485	0.099	1
Isophorone	ND		ug/l	0.485	0.122	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.485	0.083	1
1,2,4-Trichlorobenzene	ND		ug/l	0.485	0.093	1
Naphthalene	31.1		ug/l	0.485	0.085	1
4-Chloroaniline	ND		ug/l	0.485	0.124	1
Hexachlorobutadiene	ND		ug/l	0.485	0.083	1
2-Methylnaphthalene	6.14		ug/l	0.485	0.088	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.485	0.077	1
Hexachlorocyclopentadiene	ND		ug/l	0.485	0.148	1
Biphenyl	1.67		ug/l	0.485	0.108	1
2-Chloronaphthalene	ND		ug/l	0.485	0.087	1
2-Nitroaniline	ND		ug/l	0.485	0.134	1
Acenaphthylene	2.66		ug/l	0.485	0.109	1
Dimethylphthalate	ND		ug/l	0.485	0.114	1
2,6-Dinitrotoluene	ND		ug/l	0.485	0.163	1
Acenaphthene	3.24		ug/l	0.485	0.093	1
3-Nitroaniline	ND		ug/l	0.485	0.108	1
Dibenzofuran	9.20		ug/l	0.485	0.088	1
2,4-Dinitrotoluene	ND		ug/l	0.485	0.158	1

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-04 Date Collected: 09/02/21 11:10

Client ID: WT1-04-090221 Date Received: 09/02/21

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	14.3		ug/l	0.485	0.101	1
Diethylphthalate	ND		ug/l	0.485	0.175	1
4-Nitroaniline	ND		ug/l	0.485	0.109	1
n-Nitrosodiphenylamine	ND		ug/l	0.485	0.070	1
Hexachlorobenzene	ND		ug/l	0.485	0.118	1
Phenanthrene	42.8		ug/l	0.485	0.108	1
Anthracene	5.10		ug/l	0.485	0.133	1
Carbazole	6.64		ug/l	0.485	0.139	1
Di-n-butylphthalate	ND		ug/l	0.485	0.097	1
Fluoranthene	9.41		ug/l	0.485	0.151	1
Pyrene	6.28		ug/l	0.485	0.165	1
Butylbenzylphthalate	0.083	J	ug/l	0.485	0.082	1
3,3'-Dichlorobenzidine	ND		ug/l	0.485	0.187	1
Benz(a)anthracene	0.402	J	ug/l	0.485	0.179	1
Chrysene	0.331	J	ug/l	0.485	0.138	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.485	0.079	1
Di-n-octylphthalate	ND		ug/l	0.971	0.076	1
Benzo(b)fluoranthene	0.136	J	ug/l	0.485	0.064	1
Benzo(k)fluoranthene	ND		ug/l	0.485	0.156	1
Benzo(a)pyrene	0.091	J	ug/l	0.485	0.058	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.485	0.087	1
Dibenz(a,h)anthracene	ND		ug/l	0.485	0.062	1
Benzo(g,h,i)perylene	ND		ug/l	0.485	0.106	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		15-115
Phenol-d5	34		15-115
Nitrobenzene-d5	84		30-130
2-Fluorobiphenyl	77		30-130
2,4,6-Tribromophenol	85		15-115
Terphenyl-d14	88		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-04 RE
Client ID: WT1-04-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 11:10
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/01/21 13:05
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.485	0.090	1
1,3-Dichlorobenzene	ND		ug/l	0.485	0.076	1
1,4-Dichlorobenzene	ND		ug/l	0.485	0.080	1
1,2-Dichlorobenzene	ND		ug/l	0.485	0.066	1
Benzyl alcohol	ND		ug/l	0.485	0.119	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.485	0.105	1
Acetophenone	0.401	J	ug/l	0.971	0.201	1
Hexachloroethane	ND		ug/l	0.485	0.099	1
Nitrobenzene	ND		ug/l	0.485	0.099	1
Isophorone	ND		ug/l	0.485	0.122	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.485	0.083	1
1,2,4-Trichlorobenzene	ND		ug/l	0.485	0.093	1
Naphthalene	ND		ug/l	0.485	0.085	1
4-Chloroaniline	ND		ug/l	0.485	0.124	1
Hexachlorobutadiene	ND		ug/l	0.485	0.083	1
2-Methylnaphthalene	ND		ug/l	0.485	0.088	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.485	0.077	1
Hexachlorocyclopentadiene	ND		ug/l	0.485	0.148	1
Biphenyl	ND		ug/l	0.485	0.108	1
2-Chloronaphthalene	ND		ug/l	0.485	0.087	1
2-Nitroaniline	ND		ug/l	0.485	0.134	1
Acenaphthylene	1.42		ug/l	0.485	0.109	1
Dimethylphthalate	ND		ug/l	0.485	0.114	1
2,6-Dinitrotoluene	ND		ug/l	0.485	0.163	1
Acenaphthene	2.59		ug/l	0.485	0.093	1
3-Nitroaniline	ND		ug/l	0.485	0.108	1
Dibenzofuran	0.412	J	ug/l	0.485	0.088	1
2,4-Dinitrotoluene	ND		ug/l	0.485	0.158	1

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-04 RE
Client ID: WT1-04-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 11:10
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	11.6		ug/l	0.485	0.101	1
Diethylphthalate	ND		ug/l	0.485	0.175	1
4-Nitroaniline	ND		ug/l	0.485	0.109	1
n-Nitrosodiphenylamine	ND		ug/l	0.485	0.070	1
Hexachlorobenzene	ND		ug/l	0.485	0.118	1
Phenanthrene	22.3		ug/l	0.485	0.108	1
Anthracene	2.80		ug/l	0.485	0.133	1
Carbazole	ND		ug/l	0.485	0.139	1
Di-n-butylphthalate	ND		ug/l	0.485	0.097	1
Fluoranthene	10.0		ug/l	0.485	0.151	1
Pyrene	6.70		ug/l	0.485	0.165	1
Butylbenzylphthalate	0.114	J	ug/l	0.485	0.082	1
3,3'-Dichlorobenzidine	ND		ug/l	0.485	0.187	1
Benz(a)anthracene	0.376	J	ug/l	0.485	0.179	1
Chrysene	0.358	J	ug/l	0.485	0.138	1
bis(2-Ethylhexyl)phthalate	0.135	J	ug/l	0.485	0.079	1
Di-n-octylphthalate	ND		ug/l	0.971	0.076	1
Benzo(b)fluoranthene	0.165	J	ug/l	0.485	0.064	1
Benzo(k)fluoranthene	ND		ug/l	0.485	0.156	1
Benzo(a)pyrene	0.113	J	ug/l	0.485	0.058	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.485	0.087	1
Dibenz(a,h)anthracene	ND		ug/l	0.485	0.062	1
Benzo(g,h,i)perylene	ND		ug/l	0.485	0.106	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		15-115
Phenol-d5	31		15-115
Nitrobenzene-d5	81		30-130
2-Fluorobiphenyl	69		30-130
2,4,6-Tribromophenol	93		15-115
Terphenyl-d14	93		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-05
Client ID: BCP-ORC-1-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 12:10
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/26/21 03:37
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.485	0.090	1
1,3-Dichlorobenzene	ND		ug/l	0.485	0.076	1
1,4-Dichlorobenzene	ND		ug/l	0.485	0.080	1
1,2-Dichlorobenzene	ND		ug/l	0.485	0.066	1
Benzyl alcohol	ND		ug/l	0.485	0.119	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.485	0.105	1
Acetophenone	ND		ug/l	0.971	0.201	1
Hexachloroethane	ND		ug/l	0.485	0.099	1
Nitrobenzene	ND		ug/l	0.485	0.099	1
Isophorone	ND		ug/l	0.485	0.122	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.485	0.083	1
1,2,4-Trichlorobenzene	ND		ug/l	0.485	0.093	1
Naphthalene	122	E	ug/l	0.485	0.085	1
4-Chloroaniline	ND		ug/l	0.485	0.124	1
Hexachlorobutadiene	ND		ug/l	0.485	0.083	1
2-Methylnaphthalene	22.7		ug/l	0.485	0.088	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.485	0.077	1
Hexachlorocyclopentadiene	ND		ug/l	0.485	0.148	1
Biphenyl	4.03		ug/l	0.485	0.108	1
2-Chloronaphthalene	ND		ug/l	0.485	0.087	1
2-Nitroaniline	ND		ug/l	0.485	0.134	1
Acenaphthylene	19.3		ug/l	0.485	0.109	1
Dimethylphthalate	ND		ug/l	0.485	0.114	1
2,6-Dinitrotoluene	ND		ug/l	0.485	0.163	1
Acenaphthene	7.06		ug/l	0.485	0.093	1
3-Nitroaniline	ND		ug/l	0.485	0.108	1
Dibenzofuran	18.2		ug/l	0.485	0.088	1
2,4-Dinitrotoluene	ND		ug/l	0.485	0.158	1

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-05 Date Collected: 09/02/21 12:10

Client ID: BCP-ORC-1-090221 Date Received: 09/02/21

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	29.0		ug/l	0.485	0.101	1
Diethylphthalate	ND		ug/l	0.485	0.175	1
4-Nitroaniline	ND		ug/l	0.485	0.109	1
n-Nitrosodiphenylamine	ND		ug/l	0.485	0.070	1
Hexachlorobenzene	ND		ug/l	0.485	0.118	1
Phenanthrene	44.5		ug/l	0.485	0.108	1
Anthracene	3.59		ug/l	0.485	0.133	1
Carbazole	37.6		ug/l	0.485	0.139	1
Di-n-butylphthalate	ND		ug/l	0.485	0.097	1
Fluoranthene	5.95		ug/l	0.485	0.151	1
Pyrene	4.90		ug/l	0.485	0.165	1
Butylbenzylphthalate	ND		ug/l	0.485	0.082	1
3,3'-Dichlorobenzidine	ND		ug/l	0.485	0.187	1
Benz(a)anthracene	0.295	J	ug/l	0.485	0.179	1
Chrysene	0.225	J	ug/l	0.485	0.138	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.485	0.079	1
Di-n-octylphthalate	ND		ug/l	0.971	0.076	1
Benzo(b)fluoranthene	ND		ug/l	0.485	0.064	1
Benzo(k)fluoranthene	ND		ug/l	0.485	0.156	1
Benzo(a)pyrene	ND		ug/l	0.485	0.058	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.485	0.087	1
Dibenz(a,h)anthracene	ND		ug/l	0.485	0.062	1
Benzo(g,h,i)perylene	ND		ug/l	0.485	0.106	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		15-115
Phenol-d5	35		15-115
Nitrobenzene-d5	75		30-130
2-Fluorobiphenyl	78		30-130
2,4,6-Tribromophenol	90		15-115
Terphenyl-d14	90		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-05 RE/D
Client ID: BCP-ORC-1-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 12:10
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/04/21 17:19
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	4.90	0.911	10
1,3-Dichlorobenzene	ND		ug/l	4.90	0.768	10
1,4-Dichlorobenzene	ND		ug/l	4.90	0.812	10
1,2-Dichlorobenzene	ND		ug/l	4.90	0.667	10
Benzyl alcohol	ND		ug/l	4.90	1.20	10
bis(2-chloroisopropyl)ether	ND		ug/l	4.90	1.06	10
Acetophenone	ND		ug/l	9.80	2.03	10
Hexachloroethane	ND		ug/l	4.90	1.00	10
Nitrobenzene	ND		ug/l	4.90	1.00	10
Isophorone	ND		ug/l	4.90	1.24	10
bis(2-Chloroethoxy)methane	ND		ug/l	4.90	0.837	10
1,2,4-Trichlorobenzene	ND		ug/l	4.90	0.942	10
Naphthalene	265		ug/l	4.90	0.859	10
4-Chloroaniline	ND		ug/l	4.90	1.25	10
Hexachlorobutadiene	ND		ug/l	4.90	0.838	10
2-Methylnaphthalene	23.0		ug/l	4.90	0.893	10
1,2,4,5-Tetrachlorobenzene	ND		ug/l	4.90	0.781	10
Hexachlorocyclopentadiene	ND		ug/l	4.90	1.50	10
Biphenyl	4.00	J	ug/l	4.90	1.09	10
2-Chloronaphthalene	ND		ug/l	4.90	0.881	10
2-Nitroaniline	ND		ug/l	4.90	1.35	10
Acenaphthylene	14.6		ug/l	4.90	1.10	10
Dimethylphthalate	ND		ug/l	4.90	1.15	10
2,6-Dinitrotoluene	ND		ug/l	4.90	1.65	10
Acenaphthene	6.99		ug/l	4.90	0.936	10
3-Nitroaniline	ND		ug/l	4.90	1.09	10
Dibenzofuran	18.1		ug/l	4.90	0.892	10
2,4-Dinitrotoluene	ND		ug/l	4.90	1.60	10

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-05 RE/D
Client ID: BCP-ORC-1-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 12:10
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	28.1		ug/l	4.90	1.02	10
Diethylphthalate	ND		ug/l	4.90	1.76	10
4-Nitroaniline	ND		ug/l	4.90	1.10	10
n-Nitrosodiphenylamine	ND		ug/l	4.90	0.706	10
Hexachlorobenzene	ND		ug/l	4.90	1.20	10
Phenanthrene	43.4		ug/l	4.90	1.09	10
Anthracene	3.44	J	ug/l	4.90	1.34	10
Carbazole	40.0		ug/l	4.90	1.40	10
Di-n-butylphthalate	ND		ug/l	4.90	0.976	10
Fluoranthene	7.34		ug/l	4.90	1.53	10
Pyrene	5.07		ug/l	4.90	1.67	10
Butylbenzylphthalate	ND		ug/l	4.90	0.831	10
3,3'-Dichlorobenzidine	ND		ug/l	4.90	1.89	10
Benz(a)anthracene	ND		ug/l	4.90	1.80	10
Chrysene	ND		ug/l	4.90	1.39	10
bis(2-Ethylhexyl)phthalate	ND		ug/l	4.90	0.793	10
Di-n-octylphthalate	ND		ug/l	9.80	0.770	10
Benzo(b)fluoranthene	ND		ug/l	4.90	0.642	10
Benzo(k)fluoranthene	ND		ug/l	4.90	1.58	10
Benzo(a)pyrene	ND		ug/l	4.90	0.590	10
Indeno(1,2,3-cd)pyrene	ND		ug/l	4.90	0.878	10
Dibenz(a,h)anthracene	ND		ug/l	4.90	0.628	10
Benzo(g,h,i)perylene	ND		ug/l	4.90	1.07	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		15-115
Phenol-d5	31		15-115
Nitrobenzene-d5	93		30-130
2-Fluorobiphenyl	77		30-130
2,4,6-Tribromophenol	102		15-115
Terphenyl-d14	94		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL
Lab Number: L2147480
Project Number: 03.0033579.14
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-05 D
Client ID: BCP-ORC-1-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 12:10
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/27/21 23:50
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Naphthalene	246		ug/l	4.85	0.850	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		15-115
Phenol-d5	30		15-115
Nitrobenzene-d5	73		30-130
2-Fluorobiphenyl	68		30-130
2,4,6-Tribromophenol	72		15-115
Terphenyl-d14	82		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-06
Client ID: WT1-02-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 12:55
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/26/21 00:19
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.485	0.090	1
1,3-Dichlorobenzene	ND		ug/l	0.485	0.076	1
1,4-Dichlorobenzene	ND		ug/l	0.485	0.080	1
1,2-Dichlorobenzene	ND		ug/l	0.485	0.066	1
Benzyl alcohol	ND		ug/l	0.485	0.119	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.485	0.105	1
Acetophenone	ND		ug/l	0.971	0.201	1
Hexachloroethane	ND		ug/l	0.485	0.099	1
Nitrobenzene	ND		ug/l	0.485	0.099	1
Isophorone	ND		ug/l	0.485	0.122	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.485	0.083	1
1,2,4-Trichlorobenzene	ND		ug/l	0.485	0.093	1
Naphthalene	9.38		ug/l	0.485	0.085	1
4-Chloroaniline	ND		ug/l	0.485	0.124	1
Hexachlorobutadiene	ND		ug/l	0.485	0.083	1
2-Methylnaphthalene	2.11		ug/l	0.485	0.088	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.485	0.077	1
Hexachlorocyclopentadiene	ND		ug/l	0.485	0.148	1
Biphenyl	0.548		ug/l	0.485	0.108	1
2-Chloronaphthalene	ND		ug/l	0.485	0.087	1
2-Nitroaniline	ND		ug/l	0.485	0.134	1
Acenaphthylene	0.651		ug/l	0.485	0.109	1
Dimethylphthalate	ND		ug/l	0.485	0.114	1
2,6-Dinitrotoluene	ND		ug/l	0.485	0.163	1
Acenaphthene	0.710		ug/l	0.485	0.093	1
3-Nitroaniline	ND		ug/l	0.485	0.108	1
Dibenzofuran	2.47		ug/l	0.485	0.088	1
2,4-Dinitrotoluene	ND		ug/l	0.485	0.158	1

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-06 Date Collected: 09/02/21 12:55

Client ID: WT1-02-090221 Date Received: 09/02/21

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	3.50		ug/l	0.485	0.101	1
Diethylphthalate	ND		ug/l	0.485	0.175	1
4-Nitroaniline	ND		ug/l	0.485	0.109	1
n-Nitrosodiphenylamine	ND		ug/l	0.485	0.070	1
Hexachlorobenzene	ND		ug/l	0.485	0.118	1
Phenanthrene	8.10		ug/l	0.485	0.108	1
Anthracene	1.44		ug/l	0.485	0.133	1
Carbazole	2.88		ug/l	0.485	0.139	1
Di-n-butylphthalate	ND		ug/l	0.485	0.097	1
Fluoranthene	3.18		ug/l	0.485	0.151	1
Pyrene	2.39		ug/l	0.485	0.165	1
Butylbenzylphthalate	ND		ug/l	0.485	0.082	1
3,3'-Dichlorobenzidine	ND		ug/l	0.485	0.187	1
Benz(a)anthracene	ND		ug/l	0.485	0.179	1
Chrysene	ND		ug/l	0.485	0.138	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.485	0.079	1
Di-n-octylphthalate	ND		ug/l	0.971	0.076	1
Benzo(b)fluoranthene	ND		ug/l	0.485	0.064	1
Benzo(k)fluoranthene	ND		ug/l	0.485	0.156	1
Benzo(a)pyrene	ND		ug/l	0.485	0.058	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.485	0.087	1
Dibenz(a,h)anthracene	ND		ug/l	0.485	0.062	1
Benzo(g,h,i)perylene	ND		ug/l	0.485	0.106	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	23		15-115
Phenol-d5	15		15-115
Nitrobenzene-d5	41		30-130
2-Fluorobiphenyl	38		30-130
2,4,6-Tribromophenol	40		15-115
Terphenyl-d14	42		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-06 RE
Client ID: WT1-02-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 12:55
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/01/21 14:09
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.490	0.091	1
1,3-Dichlorobenzene	ND		ug/l	0.490	0.077	1
1,4-Dichlorobenzene	ND		ug/l	0.490	0.081	1
1,2-Dichlorobenzene	ND		ug/l	0.490	0.067	1
Benzyl alcohol	ND		ug/l	0.490	0.120	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.490	0.106	1
Acetophenone	0.247	J	ug/l	0.980	0.203	1
Hexachloroethane	ND		ug/l	0.490	0.100	1
Nitrobenzene	ND		ug/l	0.490	0.100	1
Isophorone	ND		ug/l	0.490	0.124	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.490	0.084	1
1,2,4-Trichlorobenzene	ND		ug/l	0.490	0.094	1
Naphthalene	ND		ug/l	0.490	0.086	1
4-Chloroaniline	ND		ug/l	0.490	0.125	1
Hexachlorobutadiene	ND		ug/l	0.490	0.084	1
2-Methylnaphthalene	ND		ug/l	0.490	0.089	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.490	0.078	1
Hexachlorocyclopentadiene	ND		ug/l	0.490	0.150	1
Biphenyl	0.555		ug/l	0.490	0.109	1
2-Chloronaphthalene	ND		ug/l	0.490	0.088	1
2-Nitroaniline	ND		ug/l	0.490	0.135	1
Acenaphthylene	0.372	J	ug/l	0.490	0.110	1
Dimethylphthalate	ND		ug/l	0.490	0.115	1
2,6-Dinitrotoluene	ND		ug/l	0.490	0.165	1
Acenaphthene	1.17		ug/l	0.490	0.094	1
3-Nitroaniline	ND		ug/l	0.490	0.109	1
Dibenzofuran	1.76		ug/l	0.490	0.089	1
2,4-Dinitrotoluene	ND		ug/l	0.490	0.160	1

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-06 RE
Client ID: WT1-02-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 12:55
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	6.39		ug/l	0.490	0.102	1
Diethylphthalate	ND		ug/l	0.490	0.176	1
4-Nitroaniline	ND		ug/l	0.490	0.110	1
n-Nitrosodiphenylamine	ND		ug/l	0.490	0.071	1
Hexachlorobenzene	ND		ug/l	0.490	0.120	1
Phenanthrene	13.1		ug/l	0.490	0.109	1
Anthracene	2.01		ug/l	0.490	0.134	1
Carbazole	1.49		ug/l	0.490	0.140	1
Di-n-butylphthalate	ND		ug/l	0.490	0.098	1
Fluoranthene	6.54		ug/l	0.490	0.153	1
Pyrene	4.93		ug/l	0.490	0.167	1
Butylbenzylphthalate	0.130	J	ug/l	0.490	0.083	1
3,3'-Dichlorobenzidine	ND		ug/l	0.490	0.189	1
Benz(a)anthracene	0.295	J	ug/l	0.490	0.180	1
Chrysene	0.215	J	ug/l	0.490	0.139	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.490	0.079	1
Di-n-octylphthalate	ND		ug/l	0.980	0.077	1
Benzo(b)fluoranthene	ND		ug/l	0.490	0.064	1
Benzo(k)fluoranthene	ND		ug/l	0.490	0.158	1
Benzo(a)pyrene	ND		ug/l	0.490	0.059	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.490	0.088	1
Dibenz(a,h)anthracene	ND		ug/l	0.490	0.063	1
Benzo(g,h,i)perylene	ND		ug/l	0.490	0.107	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		15-115
Phenol-d5	28		15-115
Nitrobenzene-d5	81		30-130
2-Fluorobiphenyl	71		30-130
2,4,6-Tribromophenol	89		15-115
Terphenyl-d14	88		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-07
Client ID: MWN-03-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 15:05
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/26/21 00:52
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.485	0.090	1
1,3-Dichlorobenzene	ND		ug/l	0.485	0.076	1
1,4-Dichlorobenzene	ND		ug/l	0.485	0.080	1
1,2-Dichlorobenzene	0.102	J	ug/l	0.485	0.066	1
Benzyl alcohol	ND		ug/l	0.485	0.119	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.485	0.105	1
Acetophenone	ND		ug/l	0.971	0.201	1
Hexachloroethane	ND		ug/l	0.485	0.099	1
Nitrobenzene	ND		ug/l	0.485	0.099	1
Isophorone	ND		ug/l	0.485	0.122	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.485	0.083	1
1,2,4-Trichlorobenzene	ND		ug/l	0.485	0.093	1
Naphthalene	11.2		ug/l	0.485	0.085	1
4-Chloroaniline	ND		ug/l	0.485	0.124	1
Hexachlorobutadiene	ND		ug/l	0.485	0.083	1
2-Methylnaphthalene	1.93		ug/l	0.485	0.088	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.485	0.077	1
Hexachlorocyclopentadiene	ND		ug/l	0.485	0.148	1
Biphenyl	0.512		ug/l	0.485	0.108	1
2-Chloronaphthalene	ND		ug/l	0.485	0.087	1
2-Nitroaniline	ND		ug/l	0.485	0.134	1
Acenaphthylene	1.23		ug/l	0.485	0.109	1
Dimethylphthalate	ND		ug/l	0.485	0.114	1
2,6-Dinitrotoluene	ND		ug/l	0.485	0.163	1
Acenaphthene	1.11		ug/l	0.485	0.093	1
3-Nitroaniline	ND		ug/l	0.485	0.108	1
Dibenzofuran	1.99		ug/l	0.485	0.088	1
2,4-Dinitrotoluene	ND		ug/l	0.485	0.158	1

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-07 Date Collected: 09/02/21 15:05

Client ID: MWN-03-090221 Date Received: 09/02/21

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	3.48		ug/l	0.485	0.101	1
Diethylphthalate	ND		ug/l	0.485	0.175	1
4-Nitroaniline	ND		ug/l	0.485	0.109	1
n-Nitrosodiphenylamine	ND		ug/l	0.485	0.070	1
Hexachlorobenzene	ND		ug/l	0.485	0.118	1
Phenanthrene	7.54		ug/l	0.485	0.108	1
Anthracene	0.884		ug/l	0.485	0.133	1
Carbazole	3.26		ug/l	0.485	0.139	1
Di-n-butylphthalate	ND		ug/l	0.485	0.097	1
Fluoranthene	2.18		ug/l	0.485	0.151	1
Pyrene	1.78		ug/l	0.485	0.165	1
Butylbenzylphthalate	ND		ug/l	0.485	0.082	1
3,3'-Dichlorobenzidine	ND		ug/l	0.485	0.187	1
Benz(a)anthracene	ND		ug/l	0.485	0.179	1
Chrysene	ND		ug/l	0.485	0.138	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.485	0.079	1
Di-n-octylphthalate	ND		ug/l	0.971	0.076	1
Benzo(b)fluoranthene	ND		ug/l	0.485	0.064	1
Benzo(k)fluoranthene	ND		ug/l	0.485	0.156	1
Benzo(a)pyrene	ND		ug/l	0.485	0.058	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.485	0.087	1
Dibenz(a,h)anthracene	ND		ug/l	0.485	0.062	1
Benzo(g,h,i)perylene	ND		ug/l	0.485	0.106	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		15-115
Phenol-d5	31		15-115
Nitrobenzene-d5	82		30-130
2-Fluorobiphenyl	77		30-130
2,4,6-Tribromophenol	98		15-115
Terphenyl-d14	95		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-07 RE
Client ID: MWN-03-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 15:05
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/01/21 14:40
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.485	0.090	1
1,3-Dichlorobenzene	ND		ug/l	0.485	0.076	1
1,4-Dichlorobenzene	ND		ug/l	0.485	0.080	1
1,2-Dichlorobenzene	0.090	J	ug/l	0.485	0.066	1
Benzyl alcohol	ND		ug/l	0.485	0.119	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.485	0.105	1
Acetophenone	0.248	J	ug/l	0.971	0.201	1
Hexachloroethane	ND		ug/l	0.485	0.099	1
Nitrobenzene	ND		ug/l	0.485	0.099	1
Isophorone	ND		ug/l	0.485	0.122	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.485	0.083	1
1,2,4-Trichlorobenzene	ND		ug/l	0.485	0.093	1
Naphthalene	10.7		ug/l	0.485	0.085	1
4-Chloroaniline	ND		ug/l	0.485	0.124	1
Hexachlorobutadiene	ND		ug/l	0.485	0.083	1
2-Methylnaphthalene	1.76		ug/l	0.485	0.088	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.485	0.077	1
Hexachlorocyclopentadiene	ND		ug/l	0.485	0.148	1
Biphenyl	0.468	J	ug/l	0.485	0.108	1
2-Chloronaphthalene	ND		ug/l	0.485	0.087	1
2-Nitroaniline	ND		ug/l	0.485	0.134	1
Acenaphthylene	0.880		ug/l	0.485	0.109	1
Dimethylphthalate	ND		ug/l	0.485	0.114	1
2,6-Dinitrotoluene	ND		ug/l	0.485	0.163	1
Acenaphthene	1.03		ug/l	0.485	0.093	1
3-Nitroaniline	ND		ug/l	0.485	0.108	1
Dibenzofuran	1.86		ug/l	0.485	0.088	1
2,4-Dinitrotoluene	ND		ug/l	0.485	0.158	1

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-07 RE
Client ID: MWN-03-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 15:05
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	3.20		ug/l	0.485	0.101	1
Diethylphthalate	ND		ug/l	0.485	0.175	1
4-Nitroaniline	ND		ug/l	0.485	0.109	1
n-Nitrosodiphenylamine	0.119	J	ug/l	0.485	0.070	1
Hexachlorobenzene	ND		ug/l	0.485	0.118	1
Phenanthrene	6.71		ug/l	0.485	0.108	1
Anthracene	0.939		ug/l	0.485	0.133	1
Carbazole	2.88		ug/l	0.485	0.139	1
Di-n-butylphthalate	ND		ug/l	0.485	0.097	1
Fluoranthene	2.16		ug/l	0.485	0.151	1
Pyrene	1.55		ug/l	0.485	0.165	1
Butylbenzylphthalate	0.091	J	ug/l	0.485	0.082	1
3,3'-Dichlorobenzidine	ND		ug/l	0.485	0.187	1
Benz(a)anthracene	ND		ug/l	0.485	0.179	1
Chrysene	ND		ug/l	0.485	0.138	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.485	0.079	1
Di-n-octylphthalate	ND		ug/l	0.971	0.076	1
Benzo(b)fluoranthene	ND		ug/l	0.485	0.064	1
Benzo(k)fluoranthene	ND		ug/l	0.485	0.156	1
Benzo(a)pyrene	ND		ug/l	0.485	0.058	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.485	0.087	1
Dibenz(a,h)anthracene	ND		ug/l	0.485	0.062	1
Benzo(g,h,i)perylene	ND		ug/l	0.485	0.106	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	34		15-115
Phenol-d5	25		15-115
Nitrobenzene-d5	81		30-130
2-Fluorobiphenyl	69		30-130
2,4,6-Tribromophenol	80		15-115
Terphenyl-d14	80		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-09
Client ID: MWN-04-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 15:55
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/26/21 01:25
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.485	0.090	1
1,3-Dichlorobenzene	ND		ug/l	0.485	0.076	1
1,4-Dichlorobenzene	ND		ug/l	0.485	0.080	1
1,2-Dichlorobenzene	ND		ug/l	0.485	0.066	1
Benzyl alcohol	ND		ug/l	0.485	0.119	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.485	0.105	1
Acetophenone	ND		ug/l	0.971	0.201	1
Hexachloroethane	ND		ug/l	0.485	0.099	1
Nitrobenzene	ND		ug/l	0.485	0.099	1
Isophorone	ND		ug/l	0.485	0.122	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.485	0.083	1
1,2,4-Trichlorobenzene	ND		ug/l	0.485	0.093	1
Naphthalene	ND		ug/l	0.485	0.085	1
4-Chloroaniline	ND		ug/l	0.485	0.124	1
Hexachlorobutadiene	ND		ug/l	0.485	0.083	1
2-Methylnaphthalene	ND		ug/l	0.485	0.088	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.485	0.077	1
Hexachlorocyclopentadiene	ND		ug/l	0.485	0.148	1
Biphenyl	ND		ug/l	0.485	0.108	1
2-Chloronaphthalene	ND		ug/l	0.485	0.087	1
2-Nitroaniline	ND		ug/l	0.485	0.134	1
Acenaphthylene	ND		ug/l	0.485	0.109	1
Dimethylphthalate	ND		ug/l	0.485	0.114	1
2,6-Dinitrotoluene	ND		ug/l	0.485	0.163	1
Acenaphthene	ND		ug/l	0.485	0.093	1
3-Nitroaniline	ND		ug/l	0.485	0.108	1
Dibenzofuran	ND		ug/l	0.485	0.088	1
2,4-Dinitrotoluene	ND		ug/l	0.485	0.158	1

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-09 Date Collected: 09/02/21 15:55

Client ID: MWN-04-090221 Date Received: 09/02/21

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	ND		ug/l	0.485	0.101	1
Diethylphthalate	ND		ug/l	0.485	0.175	1
4-Nitroaniline	ND		ug/l	0.485	0.109	1
n-Nitrosodiphenylamine	ND		ug/l	0.485	0.070	1
Hexachlorobenzene	ND		ug/l	0.485	0.118	1
Phenanthrene	ND		ug/l	0.485	0.108	1
Anthracene	ND		ug/l	0.485	0.133	1
Carbazole	ND		ug/l	0.485	0.139	1
Di-n-butylphthalate	ND		ug/l	0.485	0.097	1
Fluoranthene	ND		ug/l	0.485	0.151	1
Pyrene	0.459	J	ug/l	0.485	0.165	1
Butylbenzylphthalate	ND		ug/l	0.485	0.082	1
3,3'-Dichlorobenzidine	ND		ug/l	0.485	0.187	1
Benz(a)anthracene	ND		ug/l	0.485	0.179	1
Chrysene	ND		ug/l	0.485	0.138	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.485	0.079	1
Di-n-octylphthalate	ND		ug/l	0.971	0.076	1
Benzo(b)fluoranthene	ND		ug/l	0.485	0.064	1
Benzo(k)fluoranthene	ND		ug/l	0.485	0.156	1
Benzo(a)pyrene	ND		ug/l	0.485	0.058	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.485	0.087	1
Dibenz(a,h)anthracene	ND		ug/l	0.485	0.062	1
Benzo(g,h,i)perylene	ND		ug/l	0.485	0.106	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		15-115
Phenol-d5	31		15-115
Nitrobenzene-d5	88		30-130
2-Fluorobiphenyl	82		30-130
2,4,6-Tribromophenol	83		15-115
Terphenyl-d14	94		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-09 RE
Client ID: MWN-04-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 15:55
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/01/21 15:12
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.485	0.090	1
1,3-Dichlorobenzene	ND		ug/l	0.485	0.076	1
1,4-Dichlorobenzene	ND		ug/l	0.485	0.080	1
1,2-Dichlorobenzene	ND		ug/l	0.485	0.066	1
Benzyl alcohol	ND		ug/l	0.485	0.119	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.485	0.105	1
Acetophenone	ND		ug/l	0.971	0.201	1
Hexachloroethane	ND		ug/l	0.485	0.099	1
Nitrobenzene	ND		ug/l	0.485	0.099	1
Isophorone	ND		ug/l	0.485	0.122	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.485	0.083	1
1,2,4-Trichlorobenzene	ND		ug/l	0.485	0.093	1
Naphthalene	ND		ug/l	0.485	0.085	1
4-Chloroaniline	ND		ug/l	0.485	0.124	1
Hexachlorobutadiene	ND		ug/l	0.485	0.083	1
2-Methylnaphthalene	ND		ug/l	0.485	0.088	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.485	0.077	1
Hexachlorocyclopentadiene	ND		ug/l	0.485	0.148	1
Biphenyl	ND		ug/l	0.485	0.108	1
2-Chloronaphthalene	ND		ug/l	0.485	0.087	1
2-Nitroaniline	ND		ug/l	0.485	0.134	1
Acenaphthylene	ND		ug/l	0.485	0.109	1
Dimethylphthalate	ND		ug/l	0.485	0.114	1
2,6-Dinitrotoluene	ND		ug/l	0.485	0.163	1
Acenaphthene	ND		ug/l	0.485	0.093	1
3-Nitroaniline	ND		ug/l	0.485	0.108	1
Dibenzofuran	ND		ug/l	0.485	0.088	1
2,4-Dinitrotoluene	ND		ug/l	0.485	0.158	1

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2147480-09 RE
Client ID: MWN-04-090221
Sample Location: LACKAWANNA, NY

Date Collected: 09/02/21 15:55
Date Received: 09/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	ND		ug/l	0.485	0.101	1
Diethylphthalate	ND		ug/l	0.485	0.175	1
4-Nitroaniline	ND		ug/l	0.485	0.109	1
n-Nitrosodiphenylamine	ND		ug/l	0.485	0.070	1
Hexachlorobenzene	ND		ug/l	0.485	0.118	1
Phenanthrene	ND		ug/l	0.485	0.108	1
Anthracene	ND		ug/l	0.485	0.133	1
Carbazole	ND		ug/l	0.485	0.139	1
Di-n-butylphthalate	ND		ug/l	0.485	0.097	1
Fluoranthene	ND		ug/l	0.485	0.151	1
Pyrene	0.470	J	ug/l	0.485	0.165	1
Butylbenzylphthalate	0.091	J	ug/l	0.485	0.082	1
3,3'-Dichlorobenzidine	ND		ug/l	0.485	0.187	1
Benz(a)anthracene	ND		ug/l	0.485	0.179	1
Chrysene	ND		ug/l	0.485	0.138	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.485	0.079	1
Di-n-octylphthalate	ND		ug/l	0.971	0.076	1
Benzo(b)fluoranthene	ND		ug/l	0.485	0.064	1
Benzo(k)fluoranthene	ND		ug/l	0.485	0.156	1
Benzo(a)pyrene	ND		ug/l	0.485	0.058	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.485	0.087	1
Dibenz(a,h)anthracene	ND		ug/l	0.485	0.062	1
Benzo(g,h,i)perylene	ND		ug/l	0.485	0.106	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		15-115
Phenol-d5	27		15-115
Nitrobenzene-d5	87		30-130
2-Fluorobiphenyl	72		30-130
2,4,6-Tribromophenol	76		15-115
Terphenyl-d14	85		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/25/21 12:36
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 01-07,09 Batch: WG1543557-1					
bis(2-Chloroethyl)ether	ND		ug/l	0.500	0.093
1,3-Dichlorobenzene	ND		ug/l	0.500	0.078
1,4-Dichlorobenzene	ND		ug/l	0.500	0.083
1,2-Dichlorobenzene	ND		ug/l	0.500	0.068
Benzyl alcohol	ND		ug/l	0.500	0.123
bis(2-chloroisopropyl)ether	ND		ug/l	0.500	0.108
Acetophenone	ND		ug/l	1.00	0.207
Hexachloroethane	ND		ug/l	0.500	0.102
Nitrobenzene	ND		ug/l	0.500	0.102
Isophorone	ND		ug/l	0.500	0.126
bis(2-Chloroethoxy)methane	ND		ug/l	0.500	0.085
1,2,4-Trichlorobenzene	ND		ug/l	0.500	0.096
Naphthalene	ND		ug/l	0.500	0.088
4-Chloroaniline	ND		ug/l	0.500	0.128
Hexachlorobutadiene	ND		ug/l	0.500	0.086
2-Methylnaphthalene	ND		ug/l	0.500	0.091
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.500	0.080
Hexachlorocyclopentadiene	ND		ug/l	0.500	0.153
Biphenyl	ND		ug/l	0.500	0.111
2-Chloronaphthalene	ND		ug/l	0.500	0.090
2-Nitroaniline	ND		ug/l	0.500	0.138
Acenaphthylene	ND		ug/l	0.500	0.112
Dimethylphthalate	ND		ug/l	0.500	0.117
2,6-Dinitrotoluene	ND		ug/l	0.500	0.168
Acenaphthene	ND		ug/l	0.500	0.096
3-Nitroaniline	ND		ug/l	0.500	0.111
Dibenzofuran	ND		ug/l	0.500	0.091
2,4-Dinitrotoluene	ND		ug/l	0.500	0.163
Fluorene	ND		ug/l	0.500	0.104

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/25/21 12:36
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 01-07,09 Batch: WG1543557-1					
Diethylphthalate	ND		ug/l	0.500	0.180
4-Nitroaniline	ND		ug/l	0.500	0.112
n-Nitrosodiphenylamine	ND		ug/l	0.500	0.072
Hexachlorobenzene	ND		ug/l	0.500	0.122
Phenanthrene	ND		ug/l	0.500	0.111
Anthracene	ND		ug/l	0.500	0.137
Carbazole	ND		ug/l	0.500	0.143
Di-n-butylphthalate	ND		ug/l	0.500	0.100
Fluoranthene	ND		ug/l	0.500	0.156
Pyrene	ND		ug/l	0.500	0.170
Butylbenzylphthalate	ND		ug/l	0.500	0.085
3,3'-Dichlorobenzidine	ND		ug/l	0.500	0.193
Benz(a)anthracene	ND		ug/l	0.500	0.184
Chrysene	ND		ug/l	0.500	0.142
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.500	0.081
Di-n-octylphthalate	ND		ug/l	1.00	0.079
Benzo(b)fluoranthene	ND		ug/l	0.500	0.066
Benzo(k)fluoranthene	ND		ug/l	0.500	0.161
Benzo(a)pyrene	ND		ug/l	0.500	0.060
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.500	0.090
Dibenz(a,h)anthracene	ND		ug/l	0.500	0.064
Benzo(g,h,i)perylene	ND		ug/l	0.500	0.109

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL
Lab Number: L2147480
Project Number: 03.0033579.14
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/25/21 12:36
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 01-07,09 Batch: WG1543557-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		15-115
Phenol-d5	33		15-115
Nitrobenzene-d5	95		30-130
2-Fluorobiphenyl	86		30-130
2,4,6-Tribromophenol	70		15-115
Terphenyl-d14	105		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/01/21 08:41
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 01-07,09 Batch: WG1551897-1					
bis(2-Chloroethyl)ether	ND		ug/l	0.500	0.093
1,3-Dichlorobenzene	ND		ug/l	0.500	0.078
1,4-Dichlorobenzene	ND		ug/l	0.500	0.083
1,2-Dichlorobenzene	ND		ug/l	0.500	0.068
Benzyl alcohol	ND		ug/l	0.500	0.123
bis(2-chloroisopropyl)ether	ND		ug/l	0.500	0.108
Acetophenone	ND		ug/l	1.00	0.207
Hexachloroethane	ND		ug/l	0.500	0.102
Nitrobenzene	ND		ug/l	0.500	0.102
Isophorone	ND		ug/l	0.500	0.126
bis(2-Chloroethoxy)methane	ND		ug/l	0.500	0.085
1,2,4-Trichlorobenzene	ND		ug/l	0.500	0.096
Naphthalene	ND		ug/l	0.500	0.088
4-Chloroaniline	ND		ug/l	0.500	0.128
Hexachlorobutadiene	ND		ug/l	0.500	0.086
2-Methylnaphthalene	ND		ug/l	0.500	0.091
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.500	0.080
Hexachlorocyclopentadiene	ND		ug/l	0.500	0.153
Biphenyl	ND		ug/l	0.500	0.111
2-Chloronaphthalene	ND		ug/l	0.500	0.090
2-Nitroaniline	ND		ug/l	0.500	0.138
Acenaphthylene	ND		ug/l	0.500	0.112
Dimethylphthalate	ND		ug/l	0.500	0.117
2,6-Dinitrotoluene	ND		ug/l	0.500	0.168
Acenaphthene	ND		ug/l	0.500	0.096
3-Nitroaniline	ND		ug/l	0.500	0.111
Dibenzofuran	ND		ug/l	0.500	0.091
2,4-Dinitrotoluene	ND		ug/l	0.500	0.163
Fluorene	ND		ug/l	0.500	0.104

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL **Lab Number:** L2147480

Project Number: 03.0033579.14 **Report Date:** 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/01/21 08:41
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 01-07,09 Batch: WG1551897-1					
Diethylphthalate	ND		ug/l	0.500	0.180
4-Nitroaniline	ND		ug/l	0.500	0.112
n-Nitrosodiphenylamine	ND		ug/l	0.500	0.072
Hexachlorobenzene	ND		ug/l	0.500	0.122
Phenanthrene	ND		ug/l	0.500	0.111
Anthracene	ND		ug/l	0.500	0.137
Carbazole	ND		ug/l	0.500	0.143
Di-n-butylphthalate	ND		ug/l	0.500	0.100
Fluoranthene	ND		ug/l	0.500	0.156
Pyrene	ND		ug/l	0.500	0.170
Butylbenzylphthalate	ND		ug/l	0.500	0.085
3,3'-Dichlorobenzidine	ND		ug/l	0.500	0.193
Benz(a)anthracene	ND		ug/l	0.500	0.184
Chrysene	ND		ug/l	0.500	0.142
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.500	0.081
Di-n-octylphthalate	ND		ug/l	1.00	0.079
Benzo(b)fluoranthene	ND		ug/l	0.500	0.066
Benzo(k)fluoranthene	ND		ug/l	0.500	0.161
Benzo(a)pyrene	ND		ug/l	0.500	0.060
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.500	0.090
Dibenz(a,h)anthracene	ND		ug/l	0.500	0.064
Benzo(g,h,i)perylene	ND		ug/l	0.500	0.109

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL
Lab Number: L2147480
Project Number: 03.0033579.14
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/01/21 08:41
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 01-07,09 Batch: WG1551897-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		15-115
Phenol-d5	37		15-115
Nitrobenzene-d5	98		30-130
2-Fluorobiphenyl	83		30-130
2,4,6-Tribromophenol	87		15-115
Terphenyl-d14	92		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147480

Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG1543557-2 WG1543557-3								
bis(2-Chloroethyl)ether	83		78		40-140	6		20
1,3-Dichlorobenzene	**17**	Q	**10**	Q	40-140	**55**	Q	20
1,4-Dichlorobenzene	**18**	Q	**10**	Q	40-140	**57**	Q	20
1,2-Dichlorobenzene	**22**	Q	**13**	Q	40-140	**51**	Q	20
bis(2-chloroisopropyl)ether	77		68		40-140	12		20
Acetophenone	76		84		40-140	10		20
Hexachloroethane	11		**5**	Q	10-97	**70**	Q	20
Nitrobenzene	84		78		40-140	7		20
Isophorone	89		87		40-140	2		20
bis(2-Chloroethoxy)methane	83		78		40-140	6		20
1,2,4-Trichlorobenzene	**26**	Q	**13**	Q	40-140	**67**	Q	20
Naphthalene	47		**31**	Q	40-140	**41**	Q	20
4-Chloroaniline	84		81		40-140	4		20
Hexachlorobutadiene	**14**	Q	**5**	Q	40-140	**101**	Q	20
2-Methylnaphthalene	46		**29**	Q	40-140	**45**	Q	20
1,2,4,5-Tetrachlorobenzene	40		**21**	Q	40-140	**62**	Q	20
Hexachlorocyclopentadiene	11		**3**	Q	10-109	**126**	Q	20
Biphenyl	56		65		40-140	15		20
2-Chloronaphthalene	50		**35**	Q	40-140	**35**	Q	20
2-Nitroaniline	122		122		40-140	0		20
Acenaphthylene	71		63		40-140	12		20
Dimethylphthalate	71		64		40-140	10		20
2,6-Dinitrotoluene	85		86		40-140	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147480

Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG1543557-2 WG1543557-3								
Acenaphthene	68		58		40-140	16		20
3-Nitroaniline	99		102		40-140	3		20
Dibenzofuran	73		66		40-140	10		20
2,4-Dinitrotoluene	99		101		40-140	2		20
Fluorene	79		76		40-140	4		20
Diethylphthalate	84		82		40-140	2		20
4-Nitroaniline	106		104		40-140	2		20
n-Nitrosodiphenylamine	87		90		40-140	3		20
Hexachlorobenzene	75		78		40-140	4		20
Phenanthrene	90		92		40-140	2		20
Anthracene	90		93		40-140	3		20
Carbazole	96		97		40-140	1		20
Di-n-butylphthalate	93		95		40-140	2		20
Fluoranthene	95		98		40-140	3		20
Pyrene	93		97		40-140	4		20
Butylbenzylphthalate	105		107		40-140	2		20
3,3'-Dichlorobenzidine	88		92		40-140	4		20
Benz(a)anthracene	98		100		40-140	2		20
Chrysene	90		94		40-140	4		20
bis(2-Ethylhexyl)phthalate	107		110		40-140	3		20
Di-n-octylphthalate	90		94		40-140	4		20
Benzo(b)fluoranthene	89		94		40-140	5		20
Benzo(k)fluoranthene	93		98		40-140	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147480

Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG1543557-2 WG1543557-3								
Benzo(a)pyrene	90		94		40-140	4		20
Indeno(1,2,3-cd)pyrene	97		100		40-140	3		20
Dibenz(a,h)anthracene	93		98		40-140	5		20
Benzo(g,h,i)perylene	100		105		40-140	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	57		50		15-115
Phenol-d5	41		35		15-115
Nitrobenzene-d5	98		91		30-130
2-Fluorobiphenyl	86		81		30-130
2,4,6-Tribromophenol	85		87		15-115
Terphenyl-d14	88		89		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147480

Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG1551897-2 WG1551897-3								
bis(2-Chloroethyl)ether	73		72		40-140	1		20
1,3-Dichlorobenzene	**32**	Q	41		40-140	**25**	Q	20
1,4-Dichlorobenzene	**31**	Q	42		40-140	**30**	Q	20
1,2-Dichlorobenzene	**34**	Q	43		40-140	**23**	Q	20
bis(2-chloroisopropyl)ether	64		65		40-140	2		20
Acetophenone	81		79		40-140	3		20
Hexachloroethane	29		38		10-97	**27**	Q	20
Nitrobenzene	75		74		40-140	1		20
Isophorone	76		76		40-140	0		20
bis(2-Chloroethoxy)methane	71		70		40-140	1		20
1,2,4-Trichlorobenzene	**36**	Q	43		40-140	18		20
Naphthalene	46		52		40-140	12		20
4-Chloroaniline	76		75		40-140	1		20
Hexachlorobutadiene	**32**	Q	42		40-140	**27**	Q	20
2-Methylnaphthalene	45		52		40-140	14		20
1,2,4,5-Tetrachlorobenzene	42		48		40-140	13		20
Hexachlorocyclopentadiene	15		20		10-109	**29**	Q	20
Biphenyl	68		66		40-140	3		20
2-Chloronaphthalene	47		53		40-140	12		20
2-Nitroaniline	112		115		40-140	3		20
Acenaphthylene	63		67		40-140	6		20
Dimethylphthalate	54		59		40-140	9		20
2,6-Dinitrotoluene	81		83		40-140	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147480

Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG1551897-2 WG1551897-3								
Acenaphthene	61		65		40-140	6		20
3-Nitroaniline	96		99		40-140	3		20
Dibenzofuran	69		73		40-140	6		20
2,4-Dinitrotoluene	98		105		40-140	7		20
Fluorene	73		77		40-140	5		20
Diethylphthalate	74		80		40-140	8		20
4-Nitroaniline	99		107		40-140	8		20
n-Nitrosodiphenylamine	81		87		40-140	7		20
Hexachlorobenzene	76		80		40-140	5		20
Phenanthrene	80		87		40-140	8		20
Anthracene	84		89		40-140	6		20
Carbazole	86		94		40-140	9		20
Di-n-butylphthalate	84		91		40-140	8		20
Fluoranthene	87		95		40-140	9		20
Pyrene	81		90		40-140	11		20
Butylbenzylphthalate	85		95		40-140	11		20
3,3'-Dichlorobenzidine	91		98		40-140	7		20
Benz(a)anthracene	88		97		40-140	10		20
Chrysene	81		89		40-140	9		20
bis(2-Ethylhexyl)phthalate	90		101		40-140	12		20
Di-n-octylphthalate	80		90		40-140	12		20
Benzo(b)fluoranthene	85		98		40-140	14		20
Benzo(k)fluoranthene	82		92		40-140	11		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147480

Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG1551897-2 WG1551897-3								
Benzo(a)pyrene	83		93		40-140	11		20
Indeno(1,2,3-cd)pyrene	84		96		40-140	13		20
Dibenz(a,h)anthracene	82		94		40-140	14		20
Benzo(g,h,i)perylene	87		99		40-140	13		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	52		51		15-115
Phenol-d5	34		33		15-115
Nitrobenzene-d5	90		87		30-130
2-Fluorobiphenyl	79		73		30-130
2,4,6-Tribromophenol	94		98		15-115
Terphenyl-d14	82		89		30-130

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL
Project Number: 03.0033579.14

Lab Number: L2147480
Report Date: 10/06/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2147480-01A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-01B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-01C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-01D	Amber 1000ml unpreserved	A	11	11	3.1	Y	Absent		A2-SVOC-8270(7)
L2147480-01E	Amber 1000ml unpreserved	A	11	11	3.1	Y	Absent		A2-SVOC-8270(7)
L2147480-02A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-02B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-02C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-02D	Amber 1000ml unpreserved	A	11	11	3.1	Y	Absent		A2-SVOC-8270(7)
L2147480-02E	Amber 1000ml unpreserved	A	11	11	3.1	Y	Absent		A2-SVOC-8270(7)
L2147480-03A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-03B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-03C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-03D	Amber 1000ml unpreserved	A	11	11	3.1	Y	Absent		A2-SVOC-8270(7)
L2147480-03E	Amber 1000ml unpreserved	A	11	11	3.1	Y	Absent		A2-SVOC-8270(7)
L2147480-04A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-04B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-04C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-04D	Amber 1000ml unpreserved	A	11	11	3.1	Y	Absent		A2-SVOC-8270(7)
L2147480-04E	Amber 1000ml unpreserved	A	11	11	3.1	Y	Absent		A2-SVOC-8270(7)
L2147480-05A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-05B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-05C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)

*Values in parentheses indicate holding time in days

Project Name: STEEL WINDS ANNUAL/SEMI ANNUAL
Project Number: 03.0033579.14

Lab Number: L2147480
Report Date: 10/06/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2147480-05D	Amber 1000ml unpreserved	A	11	11	3.1	Y	Absent		A2-SVOC-8270(7)
L2147480-05E	Amber 1000ml unpreserved	A	11	11	3.1	Y	Absent		A2-SVOC-8270(7)
L2147480-06A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-06B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-06C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-06D	Amber 1000ml unpreserved	A	11	11	3.1	Y	Absent		A2-SVOC-8270(7)
L2147480-06E	Amber 1000ml unpreserved	A	11	11	3.1	Y	Absent		A2-SVOC-8270(7)
L2147480-07A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-07B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-07C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-07D	Amber 1000ml unpreserved	A	11	11	3.1	Y	Absent		A2-SVOC-8270(7)
L2147480-07E	Amber 1000ml unpreserved	A	11	11	3.1	Y	Absent		A2-SVOC-8270(7)
L2147480-08A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-08B	Vial HCl preserved	NA	NA			Y	Absent		-
L2147480-08C	Vial HCl preserved	NA	NA			Y	Absent		-
L2147480-09A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-09B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-09C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYCP51-8260(14)
L2147480-09D	Amber 1000ml unpreserved	A	11	11	3.1	Y	Absent		A2-SVOC-8270(7)
L2147480-09E	Amber 1000ml unpreserved	A	11	11	3.1	Y	Absent		A2-SVOC-8270(7)

*Values in parentheses indicate holding time in days

Project Name:	STEEL WINDS ANNUAL/SEMI ANNUAL	**Lab Number:**	L2147480
Project Number:	03.0033579.14	**Report Date:**	10/06/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	STEEL WINDS ANNUAL/SEMI ANNUAL	**Lab Number:**	L2147480
Project Number:	03.0033579.14	**Report Date:**	10/06/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	STEEL WINDS ANNUAL/SEMI ANNUAL	**Lab Number:**	L2147480
Project Number:	03.0033579.14	**Report Date:**	10/06/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	STEEL WINDS ANNUAL/SEMI ANNUAL	**Lab Number:**	L2147480
Project Number:	03.0033579.14	**Report Date:**	10/06/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 9/3/21

ALPHA Job #: L2147480

Client Information
Client: GZA
Address: 300 PEARL ST, Ste 700
Buffalo NY 14202
Phone: 716-517-5708
Fax:
Email: DANIEL.TROY@GZA.COM

Project Information
Project Name: STEEL WINDS ANNUAL/SEMI ANNUALGW
Project Location: LACKAWANA, NY
Project # 03.0033579.14
(Use Project name as Project #)
Project Manager: DANIEL TROY
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other * CAT B *

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS
8260 STARS
8270 PAH/SIM

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8260 STARS	8270 PAH/SIM	Sample Specific Comments
47480-01	WT1-05-090221	9/2/21	0817	GW	PJN	X	X	
02	MWN-01-090221		0915			X	X	
03	MWN-01B-090221		1020			X	X	
04	WT1-04-090221		1110			X	X	
05	BCP-ORC-1-090221		1210			X	X	
06	WT1-02-090221		1255			X	X	
07	MWN-03-090221		1505			X	X	
08	TRIP BLANK		—	W		X	X	
09	MWN-04-090221	9/2/21	1555	GW	PJN	X	X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	9/2/21/1635	JM AL AHL	9/02/21 16:35
JM AL AHL	9/02/21 17:00		9/3/21 01:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2147600
Client:	GZA GeoEnvironmental of New York 300 Pearl Street Suite 700 Buffalo, NY 14202
ATTN:	Dan Troy
Phone:	(716) 844-7050
Project Name:	STEELWINDS ANNUAL/SEMI-ANNUAL
Project Number:	03.0033579.14
Report Date:	10/13/21

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL
Project Number: 03.0033579.14

Lab Number: L2147600
Report Date: 10/13/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2147600-01	MWN-02D-090321	WATER	LACKAWANNA, NY	09/03/21 07:25	09/03/21
L2147600-02	MWN-02B-090321	WATER	LACKAWANNA, NY	09/03/21 08:00	09/03/21
L2147600-03	MWN-02-090321	WATER	LACKAWANNA, NY	09/03/21 08:35	09/03/21
L2147600-04	MWN-03B-090321	WATER	LACKAWANNA, NY	09/03/21 09:55	09/03/21
L2147600-05	MWN-03D-090321	WATER	LACKAWANNA, NY	09/03/21 10:05	09/03/21
L2147600-06	TRIP BLANK	WATER	LACKAWANNA, NY	09/03/21 00:00	09/03/21

Project Name:	STEELWINDS ANNUAL/SEMI-ANNUAL	**Lab Number:**	L2147600
Project Number:	03.0033579.14	**Report Date:**	10/13/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	STEELWINDS ANNUAL/SEMI-ANNUAL	**Lab Number:**	L2147600
Project Number:	03.0033579.14	**Report Date:**	10/13/21

Case Narrative (continued)

Report Revision

October 13, 2021: The Metals element lists have been amended on L2147600-04 and -05 to remove Magnesium and to include Manganese.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics

L2147600-02D: The sample has an elevated detection limit due to the dilution required by the sample matrix. The WG1543557-3 LCSD recoveries, associated with L2147600-02, -03, and -05, were below the acceptance criteria for 1,3-dichlorobenzene (10%), 1,4-dichlorobenzene (10%), 1,2-dichlorobenzene (13%), hexachloroethane (5%), 1,2,4-trichlorobenzene (13%), hexachlorobutadiene (5%), 2-methylnaphthalene (29%), 1,2,4,5-tetrachlorobenzene (21%), hexachlorocyclopentadiene (3%), and 2-chloronaphthalene (35%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 10/13/21

ORGANICS

VOLATILES

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-02 D
Client ID: MWN-02B-090321
Sample Location: LACKAWANNA, NY

Date Collected: 09/03/21 08:00
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/14/21 16:41
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	61		ug/l	1.0	0.32	2
Toluene	11		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Methyl tert butyl ether	ND		ug/l	5.0	1.4	2
p/m-Xylene	9.2		ug/l	5.0	1.4	2
o-Xylene	13		ug/l	5.0	1.4	2
n-Butylbenzene	ND		ug/l	5.0	1.4	2
sec-Butylbenzene	ND		ug/l	5.0	1.4	2
tert-Butylbenzene	ND		ug/l	5.0	1.4	2
Isopropylbenzene	ND		ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
Naphthalene	280		ug/l	5.0	1.4	2
n-Propylbenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	2.0	J	ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	3.5	J	ug/l	5.0	1.4	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	94		70-130

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-03 Date Collected: 09/03/21 08:35
Client ID: MWN-02-090321 Date Received: 09/03/21
Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/14/21 15:55
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	5.1		ug/l	0.50	0.16	1
Toluene	1.4	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	2.4	J	ug/l	2.5	0.70	1
o-Xylene	2.1	J	ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	20		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	1.8	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	1.2	J	ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	99		70-130

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-05
Client ID: MWN-03D-090321
Sample Location: LACKAWANNA, NY

Date Collected: 09/03/21 10:05
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/16/21 01:01
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-06
Client ID: TRIP BLANK
Sample Location: LACKAWANNA, NY

Date Collected: 09/03/21 00:00
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/14/21 15:31
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	99		70-130

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/14/21 08:32
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,06 Batch: WG1546688-5					
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	102		70-130

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/15/21 19:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1547196-5					
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147600

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,06 Batch: WG1546688-3 WG1546688-4								
Benzene	98		96		70-130	2		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		97		70-130	3		20
Methyl tert butyl ether	80		80		63-130	0		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	100		100		70-130	0		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	98		97		70-130	1		20
n-Propylbenzene	110		100		69-130	10		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	110		100		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		99		70-130
Toluene-d8	101		99		70-130
4-Bromofluorobenzene	102		103		70-130
Dibromofluoromethane	93		93		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147600

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1547196-3 WG1547196-4								
Benzene	100		100		70-130	0		20
Toluene	100		110		70-130	10		20
Ethylbenzene	100		100		70-130	0		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	100		110		70-130	10		20
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	110		120		70-130	9		20
n-Propylbenzene	110		110		69-130	0		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		105		70-130
Toluene-d8	101		99		70-130
4-Bromofluorobenzene	101		99		70-130
Dibromofluoromethane	92		93		70-130

SEMIVOLATILES

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-02
Client ID: MWN-02B-090321
Sample Location: LACKAWANNA, NY

Date Collected: 09/03/21 08:00
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/26/21 04:43
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.495	0.092	1
1,3-Dichlorobenzene	ND		ug/l	0.495	0.078	1
1,4-Dichlorobenzene	ND		ug/l	0.495	0.082	1
1,2-Dichlorobenzene	0.162	J	ug/l	0.495	0.067	1
Benzyl alcohol	ND		ug/l	0.495	0.122	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.495	0.107	1
Acetophenone	ND		ug/l	0.990	0.205	1
Hexachloroethane	ND		ug/l	0.495	0.101	1
Nitrobenzene	ND		ug/l	0.495	0.101	1
Isophorone	ND		ug/l	0.495	0.125	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.495	0.085	1
1,2,4-Trichlorobenzene	ND		ug/l	0.495	0.095	1
Naphthalene	102	E	ug/l	0.495	0.087	1
4-Chloroaniline	ND		ug/l	0.495	0.127	1
Hexachlorobutadiene	ND		ug/l	0.495	0.085	1
2-Methylnaphthalene	6.89		ug/l	0.495	0.090	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.495	0.079	1
Hexachlorocyclopentadiene	ND		ug/l	0.495	0.151	1
Biphenyl	1.52		ug/l	0.495	0.110	1
2-Chloronaphthalene	ND		ug/l	0.495	0.089	1
2-Nitroaniline	ND		ug/l	0.495	0.137	1
Acenaphthylene	3.18		ug/l	0.495	0.111	1
Dimethylphthalate	ND		ug/l	0.495	0.116	1
2,6-Dinitrotoluene	ND		ug/l	0.495	0.166	1
Acenaphthene	7.46		ug/l	0.495	0.095	1
3-Nitroaniline	ND		ug/l	0.495	0.110	1
Dibenzofuran	6.32		ug/l	0.495	0.090	1
2,4-Dinitrotoluene	ND		ug/l	0.495	0.161	1

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-02 Date Collected: 09/03/21 08:00

Client ID: MWN-02B-090321 Date Received: 09/03/21

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	10.2		ug/l	0.495	0.103	1
Diethylphthalate	ND		ug/l	0.495	0.178	1
4-Nitroaniline	ND		ug/l	0.495	0.111	1
n-Nitrosodiphenylamine	ND		ug/l	0.495	0.071	1
Hexachlorobenzene	ND		ug/l	0.495	0.121	1
Phenanthrene	18.0		ug/l	0.495	0.110	1
Anthracene	1.67		ug/l	0.495	0.136	1
Carbazole	23.1		ug/l	0.495	0.142	1
Di-n-butylphthalate	ND		ug/l	0.495	0.099	1
Fluoranthene	3.34		ug/l	0.495	0.154	1
Pyrene	2.49		ug/l	0.495	0.168	1
Butylbenzylphthalate	0.124	J	ug/l	0.495	0.084	1
3,3'-Dichlorobenzidine	ND		ug/l	0.495	0.191	1
Benz(a)anthracene	ND		ug/l	0.495	0.182	1
Chrysene	ND		ug/l	0.495	0.140	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.495	0.080	1
Di-n-octylphthalate	ND		ug/l	0.990	0.078	1
Benzo(b)fluoranthene	ND		ug/l	0.495	0.065	1
Benzo(k)fluoranthene	ND		ug/l	0.495	0.159	1
Benzo(a)pyrene	ND		ug/l	0.495	0.060	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.495	0.089	1
Dibenz(a,h)anthracene	ND		ug/l	0.495	0.064	1
Benzo(g,h,i)perylene	ND		ug/l	0.495	0.108	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		15-115
Phenol-d5	35		15-115
Nitrobenzene-d5	74		30-130
2-Fluorobiphenyl	84		30-130
2,4,6-Tribromophenol	88		15-115
Terphenyl-d14	92		30-130

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-02 RE/D
Client ID: MWN-02B-090321
Sample Location: LACKAWANNA, NY

Date Collected: 09/03/21 08:00
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/04/21 17:50
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Naphthalene	206		ug/l	4.90	0.859	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		15-115
Phenol-d5	36		15-115
Nitrobenzene-d5	100		30-130
2-Fluorobiphenyl	80		30-130
2,4,6-Tribromophenol	108		15-115
Terphenyl-d14	94		30-130

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-02 RE
Client ID: MWN-02B-090321
Sample Location: LACKAWANNA, NY

Date Collected: 09/03/21 08:00
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/01/21 15:44
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.490	0.091	1
1,3-Dichlorobenzene	ND		ug/l	0.490	0.077	1
1,4-Dichlorobenzene	ND		ug/l	0.490	0.081	1
1,2-Dichlorobenzene	0.142	J	ug/l	0.490	0.067	1
Benzyl alcohol	ND		ug/l	0.490	0.120	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.490	0.106	1
Acetophenone	0.553	J	ug/l	0.980	0.203	1
Hexachloroethane	ND		ug/l	0.490	0.100	1
Nitrobenzene	ND		ug/l	0.490	0.100	1
Isophorone	ND		ug/l	0.490	0.124	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.490	0.084	1
1,2,4-Trichlorobenzene	ND		ug/l	0.490	0.094	1
Naphthalene	98.1	E	ug/l	0.490	0.086	1
4-Chloroaniline	ND		ug/l	0.490	0.125	1
Hexachlorobutadiene	ND		ug/l	0.490	0.084	1
2-Methylnaphthalene	5.74		ug/l	0.490	0.089	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.490	0.078	1
Hexachlorocyclopentadiene	ND		ug/l	0.490	0.150	1
Biphenyl	1.30		ug/l	0.490	0.109	1
2-Chloronaphthalene	ND		ug/l	0.490	0.088	1
2-Nitroaniline	ND		ug/l	0.490	0.135	1
Acenaphthylene	2.10		ug/l	0.490	0.110	1
Dimethylphthalate	ND		ug/l	0.490	0.115	1
2,6-Dinitrotoluene	ND		ug/l	0.490	0.165	1
Acenaphthene	6.29		ug/l	0.490	0.094	1
3-Nitroaniline	ND		ug/l	0.490	0.109	1
Dibenzofuran	5.78		ug/l	0.490	0.089	1
2,4-Dinitrotoluene	ND		ug/l	0.490	0.160	1

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-02 RE
Client ID: MWN-02B-090321
Sample Location: LACKAWANNA, NY

Date Collected: 09/03/21 08:00
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	9.46		ug/l	0.490	0.102	1
Diethylphthalate	ND		ug/l	0.490	0.176	1
4-Nitroaniline	ND		ug/l	0.490	0.110	1
n-Nitrosodiphenylamine	0.362	J	ug/l	0.490	0.071	1
Hexachlorobenzene	ND		ug/l	0.490	0.120	1
Phenanthrene	17.0		ug/l	0.490	0.109	1
Anthracene	1.18		ug/l	0.490	0.134	1
Carbazole	22.6		ug/l	0.490	0.140	1
Di-n-butylphthalate	ND		ug/l	0.490	0.098	1
Fluoranthene	3.32		ug/l	0.490	0.153	1
Pyrene	2.30		ug/l	0.490	0.167	1
Butylbenzylphthalate	0.093	J	ug/l	0.490	0.083	1
3,3'-Dichlorobenzidine	ND		ug/l	0.490	0.189	1
Benz(a)anthracene	ND		ug/l	0.490	0.180	1
Chrysene	ND		ug/l	0.490	0.139	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.490	0.079	1
Di-n-octylphthalate	ND		ug/l	0.980	0.077	1
Benzo(b)fluoranthene	ND		ug/l	0.490	0.064	1
Benzo(k)fluoranthene	ND		ug/l	0.490	0.158	1
Benzo(a)pyrene	ND		ug/l	0.490	0.059	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.490	0.088	1
Dibenz(a,h)anthracene	ND		ug/l	0.490	0.063	1
Benzo(g,h,i)perylene	ND		ug/l	0.490	0.107	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		15-115
Phenol-d5	35		15-115
Nitrobenzene-d5	70		30-130
2-Fluorobiphenyl	74		30-130
2,4,6-Tribromophenol	92		15-115
Terphenyl-d14	89		30-130

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL
Lab Number: L2147600
Project Number: 03.0033579.14
Report Date: 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-02 D
Client ID: MWN-02B-090321
Sample Location: LACKAWANNA, NY

Date Collected: 09/03/21 08:00
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/28/21 00:56
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Naphthalene	183		ug/l	4.95	0.867	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		15-115
Phenol-d5	32		15-115
Nitrobenzene-d5	82		30-130
2-Fluorobiphenyl	76		30-130
2,4,6-Tribromophenol	79		15-115
Terphenyl-d14	87		30-130

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-03
Client ID: MWN-02-090321
Sample Location: LACKAWANNA, NY

Date Collected: 09/03/21 08:35
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/26/21 02:31
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.495	0.092	1
1,3-Dichlorobenzene	ND		ug/l	0.495	0.078	1
1,4-Dichlorobenzene	ND		ug/l	0.495	0.082	1
1,2-Dichlorobenzene	ND		ug/l	0.495	0.067	1
Benzyl alcohol	ND		ug/l	0.495	0.122	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.495	0.107	1
Acetophenone	ND		ug/l	0.990	0.205	1
Hexachloroethane	ND		ug/l	0.495	0.101	1
Nitrobenzene	ND		ug/l	0.495	0.101	1
Isophorone	ND		ug/l	0.495	0.125	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.495	0.085	1
1,2,4-Trichlorobenzene	ND		ug/l	0.495	0.095	1
Naphthalene	5.23		ug/l	0.495	0.087	1
4-Chloroaniline	ND		ug/l	0.495	0.127	1
Hexachlorobutadiene	ND		ug/l	0.495	0.085	1
2-Methylnaphthalene	1.78		ug/l	0.495	0.090	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.495	0.079	1
Hexachlorocyclopentadiene	ND		ug/l	0.495	0.151	1
Biphenyl	0.732		ug/l	0.495	0.110	1
2-Chloronaphthalene	ND		ug/l	0.495	0.089	1
2-Nitroaniline	ND		ug/l	0.495	0.137	1
Acenaphthylene	1.98		ug/l	0.495	0.111	1
Dimethylphthalate	ND		ug/l	0.495	0.116	1
2,6-Dinitrotoluene	ND		ug/l	0.495	0.166	1
Acenaphthene	1.20		ug/l	0.495	0.095	1
3-Nitroaniline	ND		ug/l	0.495	0.110	1
Dibenzofuran	2.35		ug/l	0.495	0.090	1
2,4-Dinitrotoluene	ND		ug/l	0.495	0.161	1

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-03 Date Collected: 09/03/21 08:35

Client ID: MWN-02-090321 Date Received: 09/03/21

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	4.76		ug/l	0.495	0.103	1
Diethylphthalate	ND		ug/l	0.495	0.178	1
4-Nitroaniline	ND		ug/l	0.495	0.111	1
n-Nitrosodiphenylamine	ND		ug/l	0.495	0.071	1
Hexachlorobenzene	ND		ug/l	0.495	0.121	1
Phenanthrene	4.14		ug/l	0.495	0.110	1
Anthracene	0.983		ug/l	0.495	0.136	1
Carbazole	3.67		ug/l	0.495	0.142	1
Di-n-butylphthalate	ND		ug/l	0.495	0.099	1
Fluoranthene	1.56		ug/l	0.495	0.154	1
Pyrene	1.56		ug/l	0.495	0.168	1
Butylbenzylphthalate	0.093	J	ug/l	0.495	0.084	1
3,3'-Dichlorobenzidine	ND		ug/l	0.495	0.191	1
Benz(a)anthracene	ND		ug/l	0.495	0.182	1
Chrysene	ND		ug/l	0.495	0.140	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.495	0.080	1
Di-n-octylphthalate	ND		ug/l	0.990	0.078	1
Benzo(b)fluoranthene	ND		ug/l	0.495	0.065	1
Benzo(k)fluoranthene	ND		ug/l	0.495	0.159	1
Benzo(a)pyrene	ND		ug/l	0.495	0.060	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.495	0.089	1
Dibenz(a,h)anthracene	ND		ug/l	0.495	0.064	1
Benzo(g,h,i)perylene	ND		ug/l	0.495	0.108	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	24		15-115
Phenol-d5	20		15-115
Nitrobenzene-d5	81		30-130
2-Fluorobiphenyl	78		30-130
2,4,6-Tribromophenol	58		15-115
Terphenyl-d14	85		30-130

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-03 RE
Client ID: MWN-02-090321
Sample Location: LACKAWANNA, NY

Date Collected: 09/03/21 08:35
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/01/21 16:16
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.495	0.092	1
1,3-Dichlorobenzene	ND		ug/l	0.495	0.078	1
1,4-Dichlorobenzene	ND		ug/l	0.495	0.082	1
1,2-Dichlorobenzene	ND		ug/l	0.495	0.067	1
Benzyl alcohol	ND		ug/l	0.495	0.122	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.495	0.107	1
Acetophenone	0.301	J	ug/l	0.990	0.205	1
Hexachloroethane	ND		ug/l	0.495	0.101	1
Nitrobenzene	ND		ug/l	0.495	0.101	1
Isophorone	ND		ug/l	0.495	0.125	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.495	0.085	1
1,2,4-Trichlorobenzene	ND		ug/l	0.495	0.095	1
Naphthalene	2.04		ug/l	0.495	0.087	1
4-Chloroaniline	ND		ug/l	0.495	0.127	1
Hexachlorobutadiene	ND		ug/l	0.495	0.085	1
2-Methylnaphthalene	1.23		ug/l	0.495	0.090	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.495	0.079	1
Hexachlorocyclopentadiene	ND		ug/l	0.495	0.151	1
Biphenyl	0.629		ug/l	0.495	0.110	1
2-Chloronaphthalene	ND		ug/l	0.495	0.089	1
2-Nitroaniline	ND		ug/l	0.495	0.137	1
Acenaphthylene	1.60		ug/l	0.495	0.111	1
Dimethylphthalate	ND		ug/l	0.495	0.116	1
2,6-Dinitrotoluene	ND		ug/l	0.495	0.166	1
Acenaphthene	1.02		ug/l	0.495	0.095	1
3-Nitroaniline	ND		ug/l	0.495	0.110	1
Dibenzofuran	1.88		ug/l	0.495	0.090	1
2,4-Dinitrotoluene	ND		ug/l	0.495	0.161	1

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-03 RE Date Collected: 09/03/21 08:35
Client ID: MWN-02-090321 Date Received: 09/03/21
Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	4.21		ug/l	0.495	0.103	1
Diethylphthalate	ND		ug/l	0.495	0.178	1
4-Nitroaniline	ND		ug/l	0.495	0.111	1
n-Nitrosodiphenylamine	ND		ug/l	0.495	0.071	1
Hexachlorobenzene	ND		ug/l	0.495	0.121	1
Phenanthrene	3.30		ug/l	0.495	0.110	1
Anthracene	0.951		ug/l	0.495	0.136	1
Carbazole	3.31		ug/l	0.495	0.142	1
Di-n-butylphthalate	ND		ug/l	0.495	0.099	1
Fluoranthene	1.47		ug/l	0.495	0.154	1
Pyrene	1.53		ug/l	0.495	0.168	1
Butylbenzylphthalate	0.089	J	ug/l	0.495	0.084	1
3,3'-Dichlorobenzidine	ND		ug/l	0.495	0.191	1
Benz(a)anthracene	ND		ug/l	0.495	0.182	1
Chrysene	ND		ug/l	0.495	0.140	1
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.495	0.080	1
Di-n-octylphthalate	ND		ug/l	0.990	0.078	1
Benzo(b)fluoranthene	ND		ug/l	0.495	0.065	1
Benzo(k)fluoranthene	ND		ug/l	0.495	0.159	1
Benzo(a)pyrene	ND		ug/l	0.495	0.060	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.495	0.089	1
Dibenz(a,h)anthracene	ND		ug/l	0.495	0.064	1
Benzo(g,h,i)perylene	ND		ug/l	0.495	0.108	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		15-115
Phenol-d5	29		15-115
Nitrobenzene-d5	86		30-130
2-Fluorobiphenyl	72		30-130
2,4,6-Tribromophenol	89		15-115
Terphenyl-d14	92		30-130

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-05
Client ID: MWN-03D-090321
Sample Location: LACKAWANNA, NY

Date Collected: 09/03/21 10:05
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/26/21 01:58
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.500	0.093	1
1,3-Dichlorobenzene	ND		ug/l	0.500	0.078	1
1,4-Dichlorobenzene	ND		ug/l	0.500	0.083	1
1,2-Dichlorobenzene	ND		ug/l	0.500	0.068	1
Benzyl alcohol	ND		ug/l	0.500	0.123	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.500	0.108	1
Acetophenone	ND		ug/l	1.00	0.207	1
Hexachloroethane	ND		ug/l	0.500	0.102	1
Nitrobenzene	ND		ug/l	0.500	0.102	1
Isophorone	ND		ug/l	0.500	0.126	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.500	0.085	1
1,2,4-Trichlorobenzene	ND		ug/l	0.500	0.096	1
Naphthalene	0.121	J	ug/l	0.500	0.088	1
4-Chloroaniline	ND		ug/l	0.500	0.128	1
Hexachlorobutadiene	ND		ug/l	0.500	0.086	1
2-Methylnaphthalene	ND		ug/l	0.500	0.091	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.500	0.080	1
Hexachlorocyclopentadiene	ND		ug/l	0.500	0.153	1
Biphenyl	ND		ug/l	0.500	0.111	1
2-Chloronaphthalene	ND		ug/l	0.500	0.090	1
2-Nitroaniline	ND		ug/l	0.500	0.138	1
Acenaphthylene	ND		ug/l	0.500	0.112	1
Dimethylphthalate	ND		ug/l	0.500	0.117	1
2,6-Dinitrotoluene	ND		ug/l	0.500	0.168	1
Acenaphthene	ND		ug/l	0.500	0.096	1
3-Nitroaniline	ND		ug/l	0.500	0.111	1
Dibenzofuran	ND		ug/l	0.500	0.091	1
2,4-Dinitrotoluene	ND		ug/l	0.500	0.163	1

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-05 Date Collected: 09/03/21 10:05

Client ID: MWN-03D-090321 Date Received: 09/03/21

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	ND		ug/l	0.500	0.104	1
Diethylphthalate	0.549		ug/l	0.500	0.180	1
4-Nitroaniline	ND		ug/l	0.500	0.112	1
n-Nitrosodiphenylamine	ND		ug/l	0.500	0.072	1
Hexachlorobenzene	ND		ug/l	0.500	0.122	1
Phenanthrene	ND		ug/l	0.500	0.111	1
Anthracene	ND		ug/l	0.500	0.137	1
Carbazole	ND		ug/l	0.500	0.143	1
Di-n-butylphthalate	ND		ug/l	0.500	0.100	1
Fluoranthene	ND		ug/l	0.500	0.156	1
Pyrene	ND		ug/l	0.500	0.170	1
Butylbenzylphthalate	0.137	J	ug/l	0.500	0.085	1
3,3'-Dichlorobenzidine	ND		ug/l	0.500	0.193	1
Benz(a)anthracene	ND		ug/l	0.500	0.184	1
Chrysene	ND		ug/l	0.500	0.142	1
bis(2-Ethylhexyl)phthalate	7.15		ug/l	0.500	0.081	1
Di-n-octylphthalate	ND		ug/l	1.00	0.079	1
Benzo(b)fluoranthene	ND		ug/l	0.500	0.066	1
Benzo(k)fluoranthene	ND		ug/l	0.500	0.161	1
Benzo(a)pyrene	ND		ug/l	0.500	0.060	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.500	0.090	1
Dibenz(a,h)anthracene	ND		ug/l	0.500	0.064	1
Benzo(g,h,i)perylene	ND		ug/l	0.500	0.109	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		15-115
Phenol-d5	33		15-115
Nitrobenzene-d5	83		30-130
2-Fluorobiphenyl	70		30-130
2,4,6-Tribromophenol	62		15-115
Terphenyl-d14	45		30-130

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-05 RE
Client ID: MWN-03D-090321
Sample Location: LACKAWANNA, NY

Date Collected: 09/03/21 10:05
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/01/21 16:48
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
bis(2-Chloroethyl)ether	ND		ug/l	0.500	0.093	1
1,3-Dichlorobenzene	ND		ug/l	0.500	0.078	1
1,4-Dichlorobenzene	ND		ug/l	0.500	0.083	1
1,2-Dichlorobenzene	ND		ug/l	0.500	0.068	1
Benzyl alcohol	ND		ug/l	0.500	0.123	1
bis(2-chloroisopropyl)ether	ND		ug/l	0.500	0.108	1
Acetophenone	ND		ug/l	1.00	0.207	1
Hexachloroethane	ND		ug/l	0.500	0.102	1
Nitrobenzene	ND		ug/l	0.500	0.102	1
Isophorone	ND		ug/l	0.500	0.126	1
bis(2-Chloroethoxy)methane	ND		ug/l	0.500	0.085	1
1,2,4-Trichlorobenzene	ND		ug/l	0.500	0.096	1
Naphthalene	ND		ug/l	0.500	0.088	1
4-Chloroaniline	ND		ug/l	0.500	0.128	1
Hexachlorobutadiene	ND		ug/l	0.500	0.086	1
2-Methylnaphthalene	ND		ug/l	0.500	0.091	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.500	0.080	1
Hexachlorocyclopentadiene	ND		ug/l	0.500	0.153	1
Biphenyl	ND		ug/l	0.500	0.111	1
2-Chloronaphthalene	ND		ug/l	0.500	0.090	1
2-Nitroaniline	ND		ug/l	0.500	0.138	1
Acenaphthylene	ND		ug/l	0.500	0.112	1
Dimethylphthalate	ND		ug/l	0.500	0.117	1
2,6-Dinitrotoluene	ND		ug/l	0.500	0.168	1
Acenaphthene	ND		ug/l	0.500	0.096	1
3-Nitroaniline	ND		ug/l	0.500	0.111	1
Dibenzofuran	ND		ug/l	0.500	0.091	1
2,4-Dinitrotoluene	ND		ug/l	0.500	0.163	1

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-05 RE
Client ID: MWN-03D-090321
Sample Location: LACKAWANNA, NY

Date Collected: 09/03/21 10:05
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Fluorene	ND		ug/l	0.500	0.104	1
Diethylphthalate	0.513		ug/l	0.500	0.180	1
4-Nitroaniline	ND		ug/l	0.500	0.112	1
n-Nitrosodiphenylamine	ND		ug/l	0.500	0.072	1
Hexachlorobenzene	ND		ug/l	0.500	0.122	1
Phenanthrene	ND		ug/l	0.500	0.111	1
Anthracene	ND		ug/l	0.500	0.137	1
Carbazole	ND		ug/l	0.500	0.143	1
Di-n-butylphthalate	ND		ug/l	0.500	0.100	1
Fluoranthene	ND		ug/l	0.500	0.156	1
Pyrene	ND		ug/l	0.500	0.170	1
Butylbenzylphthalate	0.142	J	ug/l	0.500	0.085	1
3,3'-Dichlorobenzidine	ND		ug/l	0.500	0.193	1
Benz(a)anthracene	ND		ug/l	0.500	0.184	1
Chrysene	ND		ug/l	0.500	0.142	1
bis(2-Ethylhexyl)phthalate	12.2		ug/l	0.500	0.081	1
Di-n-octylphthalate	0.924	J	ug/l	1.00	0.079	1
Benzo(b)fluoranthene	ND		ug/l	0.500	0.066	1
Benzo(k)fluoranthene	ND		ug/l	0.500	0.161	1
Benzo(a)pyrene	ND		ug/l	0.500	0.060	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.500	0.090	1
Dibenz(a,h)anthracene	ND		ug/l	0.500	0.064	1
Benzo(g,h,i)perylene	ND		ug/l	0.500	0.109	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		15-115
Phenol-d5	36		15-115
Nitrobenzene-d5	81		30-130
2-Fluorobiphenyl	66		30-130
2,4,6-Tribromophenol	73		15-115
Terphenyl-d14	63		30-130

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/25/21 12:36
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 02-03,05 Batch: WG1543557-1					
bis(2-Chloroethyl)ether	ND		ug/l	0.500	0.093
1,3-Dichlorobenzene	ND		ug/l	0.500	0.078
1,4-Dichlorobenzene	ND		ug/l	0.500	0.083
1,2-Dichlorobenzene	ND		ug/l	0.500	0.068
Benzyl alcohol	ND		ug/l	0.500	0.123
bis(2-chloroisopropyl)ether	ND		ug/l	0.500	0.108
Acetophenone	ND		ug/l	1.00	0.207
Hexachloroethane	ND		ug/l	0.500	0.102
Nitrobenzene	ND		ug/l	0.500	0.102
Isophorone	ND		ug/l	0.500	0.126
bis(2-Chloroethoxy)methane	ND		ug/l	0.500	0.085
1,2,4-Trichlorobenzene	ND		ug/l	0.500	0.096
Naphthalene	ND		ug/l	0.500	0.088
4-Chloroaniline	ND		ug/l	0.500	0.128
Hexachlorobutadiene	ND		ug/l	0.500	0.086
2-Methylnaphthalene	ND		ug/l	0.500	0.091
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.500	0.080
Hexachlorocyclopentadiene	ND		ug/l	0.500	0.153
Biphenyl	ND		ug/l	0.500	0.111
2-Chloronaphthalene	ND		ug/l	0.500	0.090
2-Nitroaniline	ND		ug/l	0.500	0.138
Acenaphthylene	ND		ug/l	0.500	0.112
Dimethylphthalate	ND		ug/l	0.500	0.117
2,6-Dinitrotoluene	ND		ug/l	0.500	0.168
Acenaphthene	ND		ug/l	0.500	0.096
3-Nitroaniline	ND		ug/l	0.500	0.111
Dibenzofuran	ND		ug/l	0.500	0.091
2,4-Dinitrotoluene	ND		ug/l	0.500	0.163
Fluorene	ND		ug/l	0.500	0.104

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/25/21 12:36
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 02-03,05 Batch: WG1543557-1					
Diethylphthalate	ND		ug/l	0.500	0.180
4-Nitroaniline	ND		ug/l	0.500	0.112
n-Nitrosodiphenylamine	ND		ug/l	0.500	0.072
Hexachlorobenzene	ND		ug/l	0.500	0.122
Phenanthrene	ND		ug/l	0.500	0.111
Anthracene	ND		ug/l	0.500	0.137
Carbazole	ND		ug/l	0.500	0.143
Di-n-butylphthalate	ND		ug/l	0.500	0.100
Fluoranthene	ND		ug/l	0.500	0.156
Pyrene	ND		ug/l	0.500	0.170
Butylbenzylphthalate	ND		ug/l	0.500	0.085
3,3'-Dichlorobenzidine	ND		ug/l	0.500	0.193
Benz(a)anthracene	ND		ug/l	0.500	0.184
Chrysene	ND		ug/l	0.500	0.142
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.500	0.081
Di-n-octylphthalate	ND		ug/l	1.00	0.079
Benzo(b)fluoranthene	ND		ug/l	0.500	0.066
Benzo(k)fluoranthene	ND		ug/l	0.500	0.161
Benzo(a)pyrene	ND		ug/l	0.500	0.060
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.500	0.090
Dibenz(a,h)anthracene	ND		ug/l	0.500	0.064
Benzo(g,h,i)perylene	ND		ug/l	0.500	0.109

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/25/21 12:36
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 14:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 02-03,05 Batch: WG1543557-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		15-115
Phenol-d5	33		15-115
Nitrobenzene-d5	95		30-130
2-Fluorobiphenyl	86		30-130
2,4,6-Tribromophenol	70		15-115
Terphenyl-d14	105		30-130

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/01/21 08:41
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 02-03,05 Batch: WG1551897-1					
bis(2-Chloroethyl)ether	ND		ug/l	0.500	0.093
1,3-Dichlorobenzene	ND		ug/l	0.500	0.078
1,4-Dichlorobenzene	ND		ug/l	0.500	0.083
1,2-Dichlorobenzene	ND		ug/l	0.500	0.068
Benzyl alcohol	ND		ug/l	0.500	0.123
bis(2-chloroisopropyl)ether	ND		ug/l	0.500	0.108
Acetophenone	ND		ug/l	1.00	0.207
Hexachloroethane	ND		ug/l	0.500	0.102
Nitrobenzene	ND		ug/l	0.500	0.102
Isophorone	ND		ug/l	0.500	0.126
bis(2-Chloroethoxy)methane	ND		ug/l	0.500	0.085
1,2,4-Trichlorobenzene	ND		ug/l	0.500	0.096
Naphthalene	ND		ug/l	0.500	0.088
4-Chloroaniline	ND		ug/l	0.500	0.128
Hexachlorobutadiene	ND		ug/l	0.500	0.086
2-Methylnaphthalene	ND		ug/l	0.500	0.091
1,2,4,5-Tetrachlorobenzene	ND		ug/l	0.500	0.080
Hexachlorocyclopentadiene	ND		ug/l	0.500	0.153
Biphenyl	ND		ug/l	0.500	0.111
2-Chloronaphthalene	ND		ug/l	0.500	0.090
2-Nitroaniline	ND		ug/l	0.500	0.138
Acenaphthylene	ND		ug/l	0.500	0.112
Dimethylphthalate	ND		ug/l	0.500	0.117
2,6-Dinitrotoluene	ND		ug/l	0.500	0.168
Acenaphthene	ND		ug/l	0.500	0.096
3-Nitroaniline	ND		ug/l	0.500	0.111
Dibenzofuran	ND		ug/l	0.500	0.091
2,4-Dinitrotoluene	ND		ug/l	0.500	0.163
Fluorene	ND		ug/l	0.500	0.104

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/01/21 08:41
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 02-03,05 Batch: WG1551897-1					
Diethylphthalate	ND		ug/l	0.500	0.180
4-Nitroaniline	ND		ug/l	0.500	0.112
n-Nitrosodiphenylamine	ND		ug/l	0.500	0.072
Hexachlorobenzene	ND		ug/l	0.500	0.122
Phenanthrene	ND		ug/l	0.500	0.111
Anthracene	ND		ug/l	0.500	0.137
Carbazole	ND		ug/l	0.500	0.143
Di-n-butylphthalate	ND		ug/l	0.500	0.100
Fluoranthene	ND		ug/l	0.500	0.156
Pyrene	ND		ug/l	0.500	0.170
Butylbenzylphthalate	ND		ug/l	0.500	0.085
3,3'-Dichlorobenzidine	ND		ug/l	0.500	0.193
Benz(a)anthracene	ND		ug/l	0.500	0.184
Chrysene	ND		ug/l	0.500	0.142
bis(2-Ethylhexyl)phthalate	ND		ug/l	0.500	0.081
Di-n-octylphthalate	ND		ug/l	1.00	0.079
Benzo(b)fluoranthene	ND		ug/l	0.500	0.066
Benzo(k)fluoranthene	ND		ug/l	0.500	0.161
Benzo(a)pyrene	ND		ug/l	0.500	0.060
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.500	0.090
Dibenz(a,h)anthracene	ND		ug/l	0.500	0.064
Benzo(g,h,i)perylene	ND		ug/l	0.500	0.109

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/01/21 08:41
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/28/21 18:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 02-03,05 Batch: WG1551897-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		15-115
Phenol-d5	37		15-115
Nitrobenzene-d5	98		30-130
2-Fluorobiphenyl	83		30-130
2,4,6-Tribromophenol	87		15-115
Terphenyl-d14	92		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147600

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 02-03,05 Batch: WG1543557-2 WG1543557-3								
bis(2-Chloroethyl)ether	83		78		40-140	6		20
1,3-Dichlorobenzene	**17**	Q	**10**	Q	40-140	**55**	Q	20
1,4-Dichlorobenzene	**18**	Q	**10**	Q	40-140	**57**	Q	20
1,2-Dichlorobenzene	**22**	Q	**13**	Q	40-140	**51**	Q	20
bis(2-chloroisopropyl)ether	77		68		40-140	12		20
Acetophenone	76		84		40-140	10		20
Hexachloroethane	11		**5**	Q	10-97	**70**	Q	20
Nitrobenzene	84		78		40-140	7		20
Isophorone	89		87		40-140	2		20
bis(2-Chloroethoxy)methane	83		78		40-140	6		20
1,2,4-Trichlorobenzene	**26**	Q	**13**	Q	40-140	**67**	Q	20
Naphthalene	47		**31**	Q	40-140	**41**	Q	20
4-Chloroaniline	84		81		40-140	4		20
Hexachlorobutadiene	**14**	Q	**5**	Q	40-140	**101**	Q	20
2-Methylnaphthalene	46		**29**	Q	40-140	**45**	Q	20
1,2,4,5-Tetrachlorobenzene	40		**21**	Q	40-140	**62**	Q	20
Hexachlorocyclopentadiene	11		**3**	Q	10-109	**126**	Q	20
Biphenyl	56		65		40-140	15		20
2-Chloronaphthalene	50		**35**	Q	40-140	**35**	Q	20
2-Nitroaniline	122		122		40-140	0		20
Acenaphthylene	71		63		40-140	12		20
Dimethylphthalate	71		64		40-140	10		20
2,6-Dinitrotoluene	85		86		40-140	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147600

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 02-03,05 Batch: WG1543557-2 WG1543557-3								
Acenaphthene	68		58		40-140	16		20
3-Nitroaniline	99		102		40-140	3		20
Dibenzofuran	73		66		40-140	10		20
2,4-Dinitrotoluene	99		101		40-140	2		20
Fluorene	79		76		40-140	4		20
Diethylphthalate	84		82		40-140	2		20
4-Nitroaniline	106		104		40-140	2		20
n-Nitrosodiphenylamine	87		90		40-140	3		20
Hexachlorobenzene	75		78		40-140	4		20
Phenanthrene	90		92		40-140	2		20
Anthracene	90		93		40-140	3		20
Carbazole	96		97		40-140	1		20
Di-n-butylphthalate	93		95		40-140	2		20
Fluoranthene	95		98		40-140	3		20
Pyrene	93		97		40-140	4		20
Butylbenzylphthalate	105		107		40-140	2		20
3,3'-Dichlorobenzidine	88		92		40-140	4		20
Benz(a)anthracene	98		100		40-140	2		20
Chrysene	90		94		40-140	4		20
bis(2-Ethylhexyl)phthalate	107		110		40-140	3		20
Di-n-octylphthalate	90		94		40-140	4		20
Benzo(b)fluoranthene	89		94		40-140	5		20
Benzo(k)fluoranthene	93		98		40-140	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147600

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 02-03,05 Batch: WG1543557-2 WG1543557-3								
Benzo(a)pyrene	90		94		40-140	4		20
Indeno(1,2,3-cd)pyrene	97		100		40-140	3		20
Dibenz(a,h)anthracene	93		98		40-140	5		20
Benzo(g,h,i)perylene	100		105		40-140	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	57		50		15-115
Phenol-d5	41		35		15-115
Nitrobenzene-d5	98		91		30-130
2-Fluorobiphenyl	86		81		30-130
2,4,6-Tribromophenol	85		87		15-115
Terphenyl-d14	88		89		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147600

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 02-03,05 Batch: WG1551897-2 WG1551897-3								
bis(2-Chloroethyl)ether	73		72		40-140	1		20
1,3-Dichlorobenzene	**32**	Q	41		40-140	**25**	Q	20
1,4-Dichlorobenzene	**31**	Q	42		40-140	**30**	Q	20
1,2-Dichlorobenzene	**34**	Q	43		40-140	**23**	Q	20
bis(2-chloroisopropyl)ether	64		65		40-140	2		20
Acetophenone	81		79		40-140	3		20
Hexachloroethane	29		38		10-97	**27**	Q	20
Nitrobenzene	75		74		40-140	1		20
Isophorone	76		76		40-140	0		20
bis(2-Chloroethoxy)methane	71		70		40-140	1		20
1,2,4-Trichlorobenzene	**36**	Q	43		40-140	18		20
Naphthalene	46		52		40-140	12		20
4-Chloroaniline	76		75		40-140	1		20
Hexachlorobutadiene	**32**	Q	42		40-140	**27**	Q	20
2-Methylnaphthalene	45		52		40-140	14		20
1,2,4,5-Tetrachlorobenzene	42		48		40-140	13		20
Hexachlorocyclopentadiene	15		20		10-109	**29**	Q	20
Biphenyl	68		66		40-140	3		20
2-Chloronaphthalene	47		53		40-140	12		20
2-Nitroaniline	112		115		40-140	3		20
Acenaphthylene	63		67		40-140	6		20
Dimethylphthalate	54		59		40-140	9		20
2,6-Dinitrotoluene	81		83		40-140	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147600

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 02-03,05 Batch: WG1551897-2 WG1551897-3								
Acenaphthene	61		65		40-140	6		20
3-Nitroaniline	96		99		40-140	3		20
Dibenzofuran	69		73		40-140	6		20
2,4-Dinitrotoluene	98		105		40-140	7		20
Fluorene	73		77		40-140	5		20
Diethylphthalate	74		80		40-140	8		20
4-Nitroaniline	99		107		40-140	8		20
n-Nitrosodiphenylamine	81		87		40-140	7		20
Hexachlorobenzene	76		80		40-140	5		20
Phenanthrene	80		87		40-140	8		20
Anthracene	84		89		40-140	6		20
Carbazole	86		94		40-140	9		20
Di-n-butylphthalate	84		91		40-140	8		20
Fluoranthene	87		95		40-140	9		20
Pyrene	81		90		40-140	11		20
Butylbenzylphthalate	85		95		40-140	11		20
3,3'-Dichlorobenzidine	91		98		40-140	7		20
Benz(a)anthracene	88		97		40-140	10		20
Chrysene	81		89		40-140	9		20
bis(2-Ethylhexyl)phthalate	90		101		40-140	12		20
Di-n-octylphthalate	80		90		40-140	12		20
Benzo(b)fluoranthene	85		98		40-140	14		20
Benzo(k)fluoranthene	82		92		40-140	11		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147600

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 02-03,05 Batch: WG1551897-2 WG1551897-3								
Benzo(a)pyrene	83		93		40-140	11		20
Indeno(1,2,3-cd)pyrene	84		96		40-140	13		20
Dibenz(a,h)anthracene	82		94		40-140	14		20
Benzo(g,h,i)perylene	87		99		40-140	13		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	52		51		15-115
Phenol-d5	34		33		15-115
Nitrobenzene-d5	90		87		30-130
2-Fluorobiphenyl	79		73		30-130
2,4,6-Tribromophenol	94		98		15-115
Terphenyl-d14	82		89		30-130

METALS

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL
Lab Number: L2147600
Project Number: 03.0033579.14
Report Date: 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-01
Client ID: MWN-02D-090321
Sample Location: LACKAWANNA, NY
Date Collected: 09/03/21 07:25
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00062		mg/l	0.00050	0.00016	1	09/07/21 19:06	09/08/21 01:09	EPA 3005A	1,6020B	CD
Barium, Total	0.9225		mg/l	0.00050	0.00017	1	09/07/21 19:06	09/08/21 01:09	EPA 3005A	1,6020B	CD
Chromium, Total	0.00060	J	mg/l	0.00100	0.00017	1	09/07/21 19:06	09/08/21 01:09	EPA 3005A	1,6020B	CD

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL
Lab Number: L2147600
Project Number: 03.0033579.14
Report Date: 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-02
Client ID: MWN-02B-090321
Sample Location: LACKAWANNA, NY
Date Collected: 09/03/21 08:00
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.02768		mg/l	0.00050	0.00016	1	09/07/21 19:06	09/08/21 01:14	EPA 3005A	1,6020B	CD

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-04 Date Collected: 09/03/21 09:55

Client ID: MWN-03B-090321 Date Received: 09/03/21

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.08697		mg/l	0.00050	0.00016	1	09/07/21 19:06	09/08/21 00:16	EPA 3005A	1,6020B	CD
Barium, Total	1.049		mg/l	0.00050	0.00017	1	09/07/21 19:06	09/08/21 00:16	EPA 3005A	1,6020B	CD
Chromium, Total	0.00510		mg/l	0.00100	0.00017	1	09/07/21 19:06	09/08/21 00:16	EPA 3005A	1,6020B	CD
Manganese, Total	0.4002		mg/l	0.00100	0.00044	1	09/07/21 19:06	09/08/21 00:16	EPA 3005A	1,6020B	CD

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2147600-05 Date Collected: 09/03/21 10:05

Client ID: MWN-03D-090321 Date Received: 09/03/21

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Barium, Dissolved	1.318		mg/l	0.00050	0.00017	1	09/09/21 16:43	09/10/21 00:40	EPA 3005A	1,6020B	PS
Manganese, Dissolved	0.02452		mg/l	0.00100	0.00044	1	09/09/21 16:43	09/10/21 00:40	EPA 3005A	1,6020B	PS

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL **Lab Number:** L2147600

Project Number: 03.0033579.14 **Report Date:** 10/13/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02,04 Batch: WG1543548-1										
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	09/07/21 19:06	09/08/21 00:35	1,6020B	CD
Barium, Total	ND		mg/l	0.00050	0.00017	1	09/07/21 19:06	09/08/21 00:35	1,6020B	CD
Chromium, Total	ND		mg/l	0.00100	0.00017	1	09/07/21 19:06	09/08/21 00:35	1,6020B	CD
Manganese, Total	ND		mg/l	0.00100	0.00044	1	09/07/21 19:06	09/08/21 00:35	1,6020B	CD

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 05 Batch: WG1544413-1										
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	09/09/21 16:43	09/10/21 00:06	1,6020B	PS
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	09/09/21 16:43	09/10/21 00:06	1,6020B	PS

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147600

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02,04 Batch: WG1543548-2								
Arsenic, Total	103		-		80-120	-		
Barium, Total	93		-		80-120	-		
Chromium, Total	96		-		80-120	-		
Manganese, Total	94		-		80-120	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 05 Batch: WG1544413-2								
Barium, Dissolved	96		-		80-120	-		
Manganese, Dissolved	94		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL
Project Number: 03.0033579.14

Lab Number: L2147600
Report Date: 10/13/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02,04 QC Batch ID: WG1543548-3 QC Sample: L2146884-01 Client ID: MS Sample												
Arsenic, Total	0.01047	0.12	0.1341	103		-	-		75-125	-		20
Barium, Total	0.5554	2	2.428	94		-	-		75-125	-		20
Chromium, Total	0.03241	0.2	0.2334	100		-	-		75-125	-		20
Manganese, Total	15.75	0.5	15.49	**0**	Q	-	-		75-125	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1544413-3 QC Sample: L2147925-01 Client ID: MS Sample												
Barium, Dissolved	0.0081	2	1.910	95		-	-		75-125	-		20
Manganese, Dissolved	0.0437	0.5	0.5331	98		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL

Project Number: 03.0033579.14

Lab Number: L2147600

Report Date: 10/13/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02,04 QC Batch ID: WG1543548-4 QC Sample: L2146884-01 Client ID: DUP Sample						
Arsenic, Total	0.01047	0.01118	mg/l	7		20
Barium, Total	0.5554	0.5651	mg/l	2		20
Chromium, Total	0.03241	0.03560	mg/l	9		20
Total Metals - Mansfield Lab Associated sample(s): 01-02,04 QC Batch ID: WG1543548-4 QC Sample: L2146884-01 Client ID: DUP Sample						
Manganese, Total	15.75	16.35	mg/l	4		20

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL
Project Number: 03.0033579.14

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2147600
Report Date: 10/13/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02,04 QC Batch ID: WG1543548-6 QC Sample: L2146884-01 Client ID: DUP Sample						
Barium, Total	0.5554	0.5711	mg/l	3		20
Chromium, Total	0.03241	0.03303	mg/l	2		20
Total Metals - Mansfield Lab Associated sample(s): 01-02,04 QC Batch ID: WG1543548-6 QC Sample: L2146884-01 Client ID: DUP Sample						
Manganese, Total	15.75	16.48	mg/l	5		20

Project Name: STEELWINDS ANNUAL/SEMI-ANNUAL
Project Number: 03.0033579.14

Lab Number: L2147600
Report Date: 10/13/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2147600-01A	Plastic 250ml HNO3 preserved	A	<2	<2	4.2	Y	Absent		BA-6020T(180),CR-6020T(180),AS-6020T(180)
L2147600-02A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYCP51-8260(14)
L2147600-02B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYCP51-8260(14)
L2147600-02C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYCP51-8260(14)
L2147600-02D	Plastic 250ml HNO3 preserved	A	<2	<2	4.2	Y	Absent		AS-6020T(180)
L2147600-02E	Amber 1000ml unpreserved	A	11	11	4.2	Y	Absent		A2-SVOC-8270(7)
L2147600-02F	Amber 1000ml unpreserved	A	11	11	4.2	Y	Absent		A2-SVOC-8270(7)
L2147600-03A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYCP51-8260(14)
L2147600-03B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYCP51-8260(14)
L2147600-03C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYCP51-8260(14)
L2147600-03D	Amber 1000ml unpreserved	A	11	11	4.2	Y	Absent		A2-SVOC-8270(7)
L2147600-03E	Amber 1000ml unpreserved	A	11	11	4.2	Y	Absent		A2-SVOC-8270(7)
L2147600-04A	Plastic 250ml HNO3 preserved	A	<2	<2	4.2	Y	Absent		BA-6020T(180),CR-6020T(180),MN-6020T(180),AS-6020T(180)
L2147600-05A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYCP51-8260(14)
L2147600-05B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYCP51-8260(14)
L2147600-05C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYCP51-8260(14)
L2147600-05D	Plastic 250ml unpreserved	A	7	7	4.2	Y	Absent		-
L2147600-05E	Amber 1000ml unpreserved	A	7	7	4.2	Y	Absent		A2-SVOC-8270(7)
L2147600-05F	Amber 1000ml unpreserved	A	7	7	4.2	Y	Absent		A2-SVOC-8270(7)
L2147600-05X	Plastic 120ml HNO3 preserved Filtrates	A	NA		4.2	Y	Absent		MN-6020S(180),BA-6020S(180)
L2147600-06A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYCP51-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	STEELWINDS ANNUAL/SEMI-ANNUAL	**Lab Number:**	L2147600
Project Number:	03.0033579.14	**Report Date:**	10/13/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	STEELWINDS ANNUAL/SEMI-ANNUAL	**Lab Number:**	L2147600
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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	STEELWINDS ANNUAL/SEMI-ANNUAL	**Lab Number:**	L2147600
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Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	STEELWINDS ANNUAL/SEMI-ANNUAL	**Lab Number:**	L2147600
Project Number:	03.0033579.14	**Report Date:**	10/13/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 9/4/21

ALPHA Job #: L2147600

Client Information
Client: GZA
Address: 300 Pearl St Suite 700
Buffalo NY 14202
Phone: 716-517-5708
Fax:
Email: DANIEL.TROY@GZA.com

Project Information
Project Name: STEEL WINDS ANNUAL/SEMI-ANNUAL GW
Project Location: LACKAWANA NY
Project # 03.0033579.14
(Use Project name as Project #) ☐
Project Manager: DANIEL TROY
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other ★CAT B★

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8260 STARS	8270 PAH/SIMS	6010D AR,BR,CR	6010D, Arsenic	6010D, Barium	6010D, Mag	6010D, CR		Total Bottle
47600-01	MWN-02D-090321	9/3/21	0725	GW	PN			X						
-02	MWN-02B-090321		0800			X	X		X					
-03	MWN-02-090321	↓	0835	↓	↓	X	X							
-04	MWN-03B-090321	↓	0955	↓	↓				X	X	X	X		
	~~[illegible]~~								~~X~~	~~X~~	~~X~~	~~X~~	PN	9-3-21
-05	MWN-03D-090321	9/3/21	1005	GW	PN	X	X			X	X			★LAB Filter
-06	TRIP BLANK	↓	—	W	↓									Metal Sample bottle★
														Can use SVOC
														bottle if need more volume

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
[signature] AD2	9/3/21 1115	[signature] AAR	9/3/21 1115
[signature]	9/3/21 1115	[signature]	9/4/21 0730

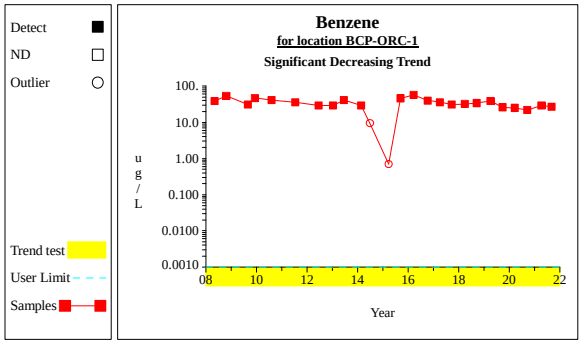
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

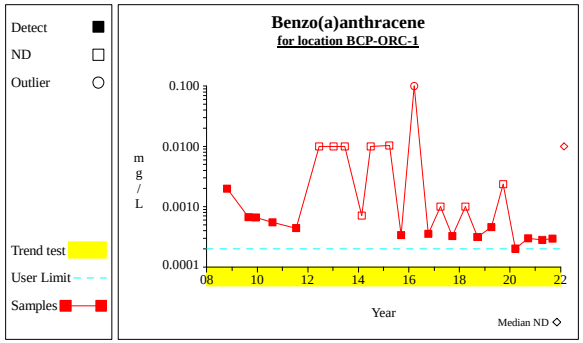
Form No: 01-25 HC (rev. 30-Sept-2013)

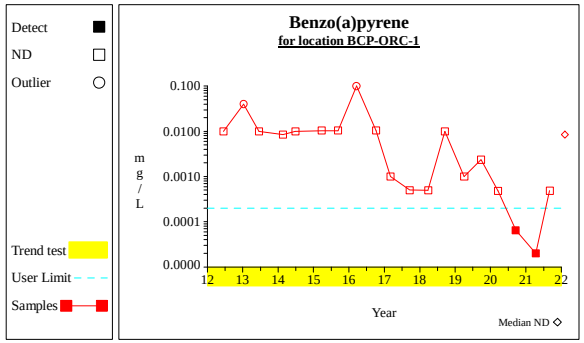
APPENDIX C

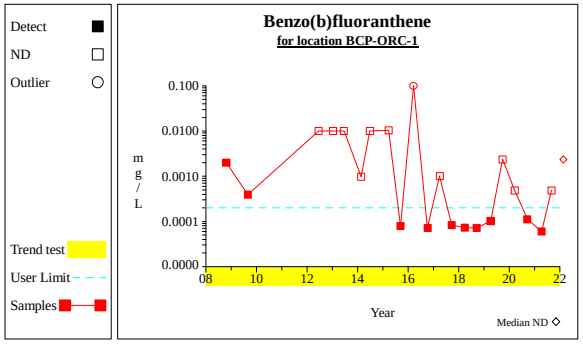
TIME SERIES PLOTS

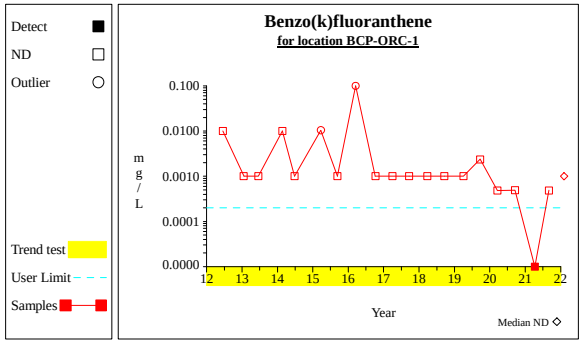
Time Series

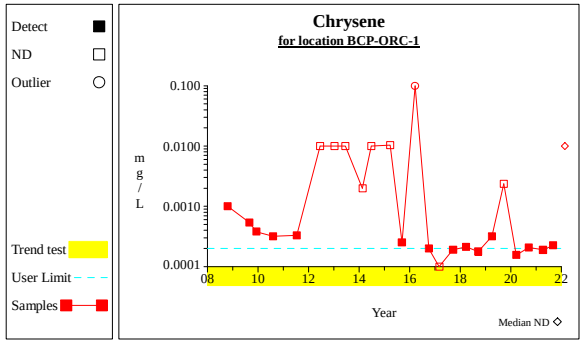

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzene
for location BCP-ORC-1
Significant Decreasing Trend
ug/L
100.
10.0
1.00
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year

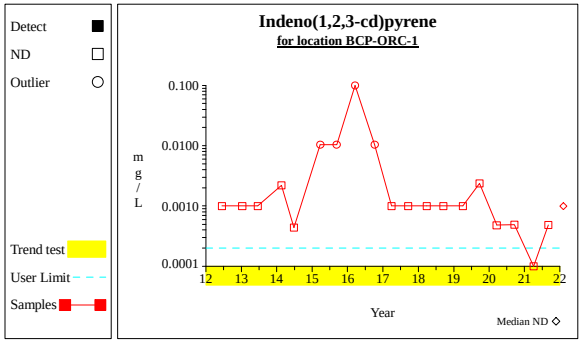

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(a)anthracene
for location BCP-ORC-1
mg/L
0.100
0.0100
0.0010
0.0001
08 10 12 14 16 18 20 22
Year
Median ND

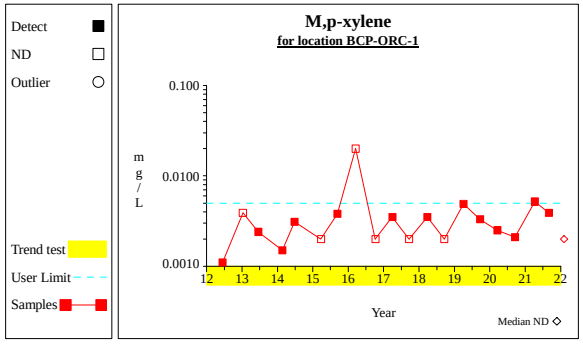

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(a)pyrene
for location BCP-ORC-1
mg/L
0.100
0.0100
0.0010
0.0001
0.0000
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

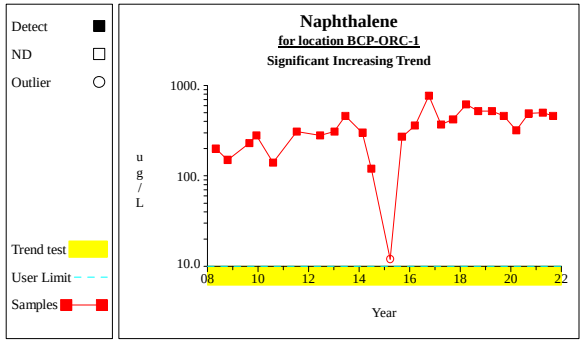

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(b)fluoranthene
for location BCP-ORC-1
mg/L
0.100
0.0100
0.0010
0.0001
0.0000
08 10 12 14 16 18 20 22
Year
Median ND


Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(k)fluoranthene
for location BCP-ORC-1
mg/L
0.100
0.0100
0.0010
0.0001
0.0000
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

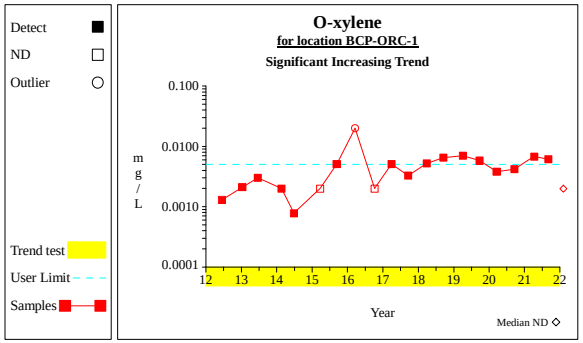

Detect
ND
Outlier
Trend test
User Limit
Samples
Chrysene
for location BCP-ORC-1
mg/L
0.100
0.0100
0.0010
0.0001
08 10 12 14 16 18 20 22
Year
Median ND

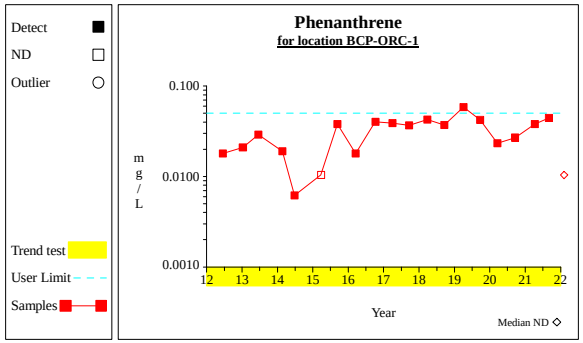

Detect
ND
Outlier
Trend test
User Limit
Samples
Indeno(1,2,3-cd)pyrene
for location BCP-ORC-1
mg/L
0.100
0.0100
0.0010
0.0001
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

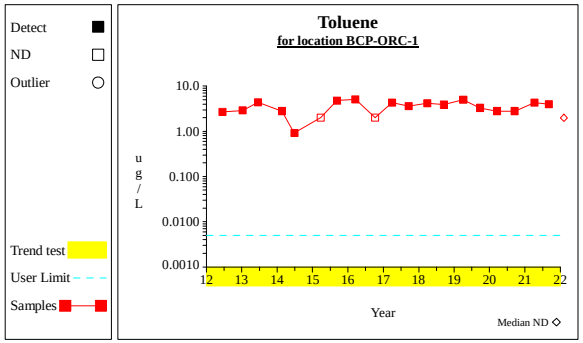

Detect
ND
Outlier
Trend test
User Limit
Samples
M,p-xylene
for location BCP-ORC-1
mg/L
0.100
0.0100
0.0010
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

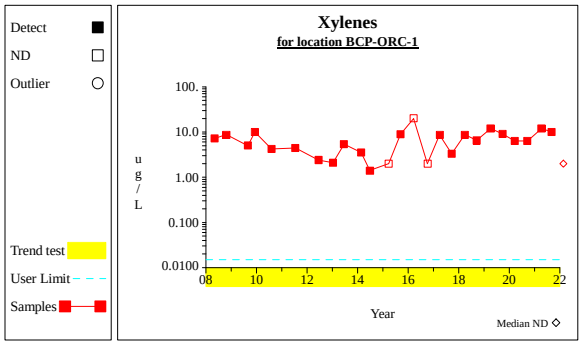

Detect
ND
Outlier
Trend test
User Limit
Samples
Naphthalene
for location BCP-ORC-1
Significant Increasing Trend
ug/L
1000.
100.
10.0
08 10 12 14 16 18 20 22
Year

Time Series

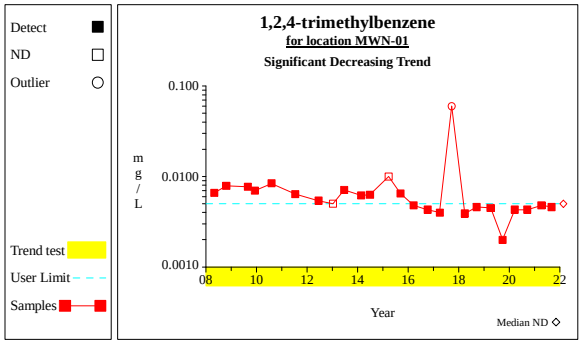

Detect
ND
Outlier
Trend test
User Limit
Samples
O-xylene
for location BCP-ORC-1
Significant Increasing Trend
mg/L
0.100
0.0100
0.0010
0.0001
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

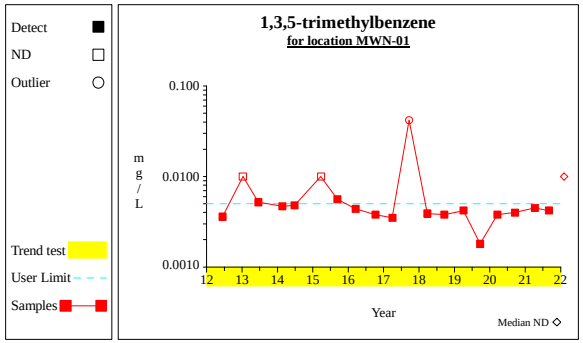

Detect
ND
Outlier
Trend test
User Limit
Samples
Phenanthrene
for location BCP-ORC-1
mg/L
0.100
0.0100
0.0010
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

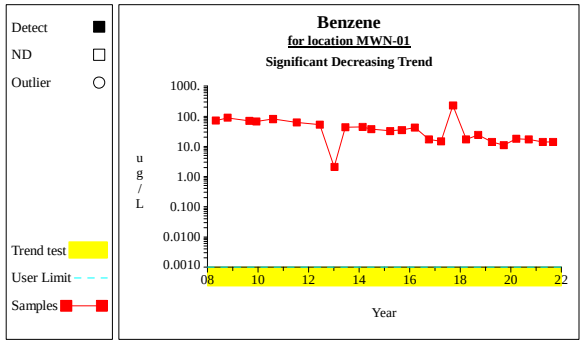

Detect
ND
Outlier
Trend test
User Limit
Samples
Toluene
for location BCP-ORC-1
ug/L
10.0
1.00
0.100
0.0100
0.0010
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

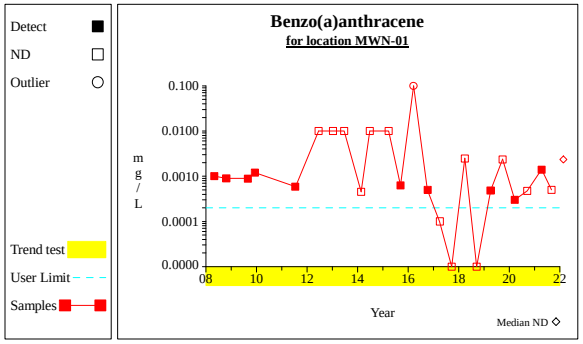

Detect
ND
Outlier
Trend test
User Limit
Samples
Xylenes
for location BCP-ORC-1
ug/L
100.
10.0
1.00
0.100
0.0100
08 10 12 14 16 18 20 22
Year
Median ND

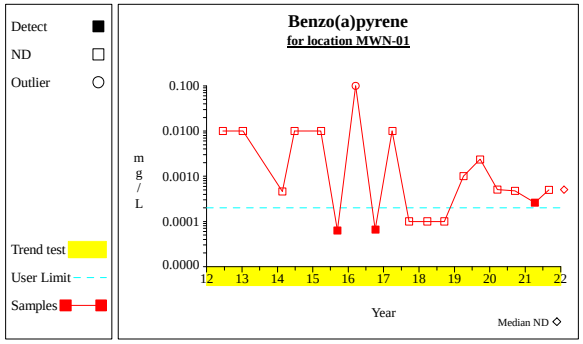
Time Series

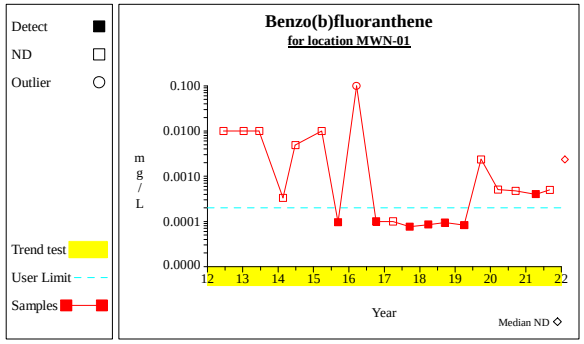

Detect
ND
Outlier
Trend test
User Limit
Samples
1,2,4-trimethylbenzene
for location MWN-01
Significant Decreasing Trend
mg/L
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year
Median ND

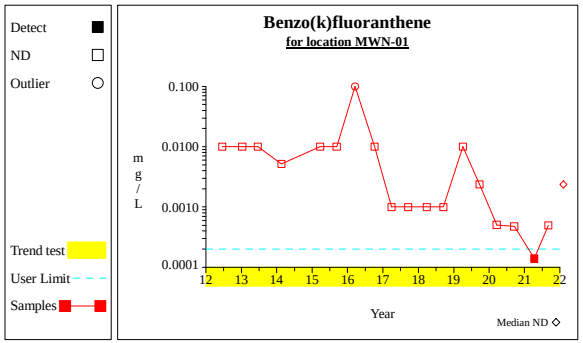

Detect
ND
Outlier
Trend test
User Limit
Samples
1,3,5-trimethylbenzene
for location MWN-01
mg/L
0.100
0.0100
0.0010
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

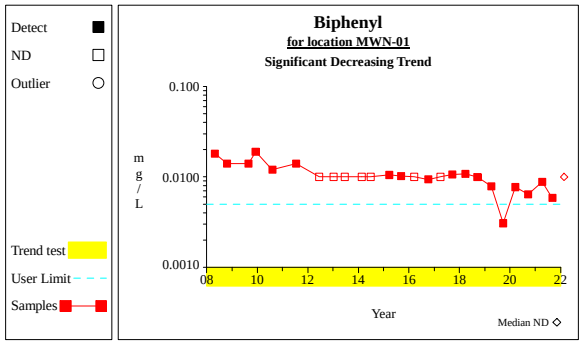

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzene
for location MWN-01
Significant Decreasing Trend
ug/L
1000.
100.
10.0
1.00
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year

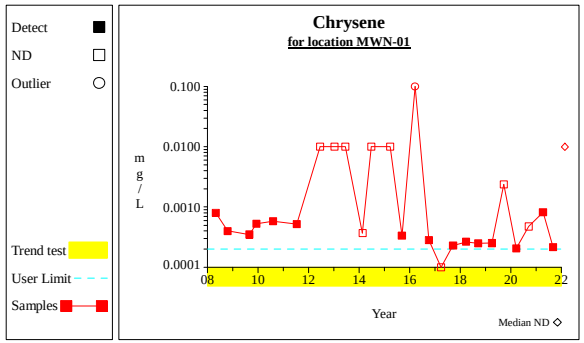

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(a)anthracene
for location MWN-01
mg/L
0.100
0.0100
0.0010
0.0001
0.0000
08 10 12 14 16 18 20 22
Year
Median ND


Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(a)pyrene
for location MWN-01
mg/L
0.100
0.0100
0.0010
0.0001
0.0000
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

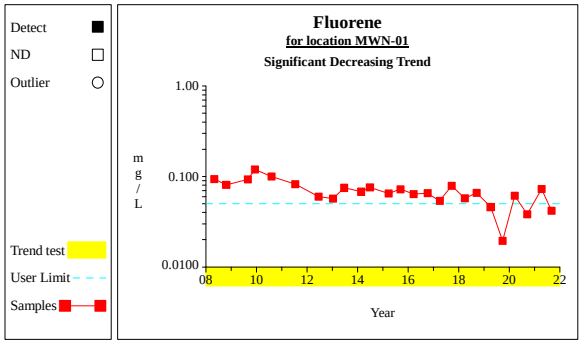

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(b)fluoranthene
for location MWN-01
mg/L
0.100
0.0100
0.0010
0.0001
0.0000
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

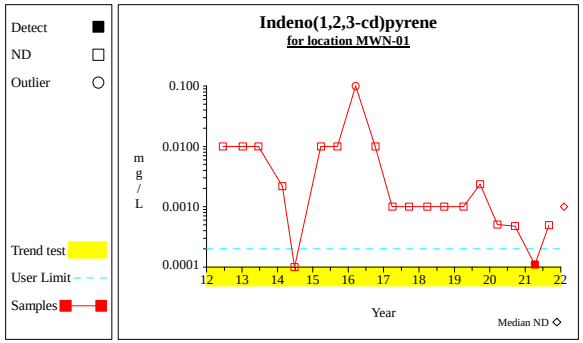

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(k)fluoranthene
for location MWN-01
mg/L
0.100
0.0100
0.0010
0.0001
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

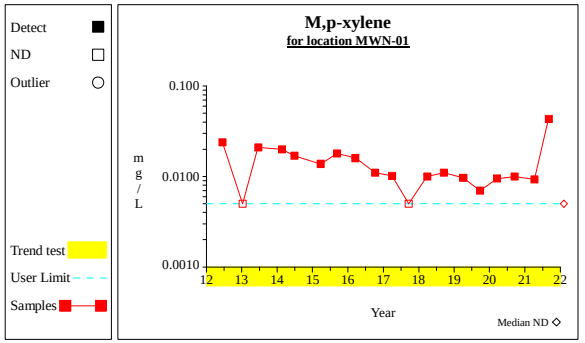

Detect
ND
Outlier
Trend test
User Limit
Samples
Biphenyl
for location MWN-01
Significant Decreasing Trend
mg/L
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year
Median ND

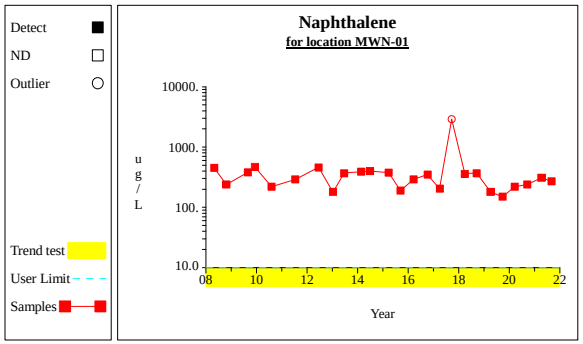

Detect
ND
Outlier
Trend test
User Limit
Samples
Chrysene
for location MWN-01
mg/L
0.100
0.0100
0.0010
0.0001
08 10 12 14 16 18 20 22
Year
Median ND

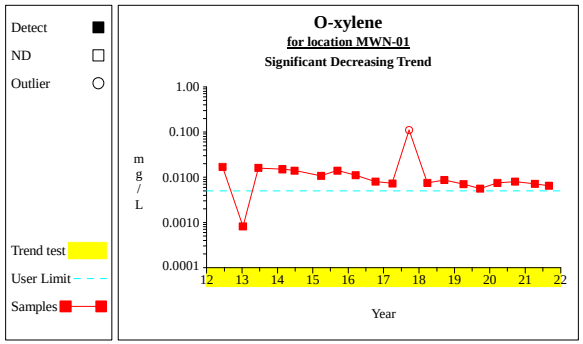
Time Series

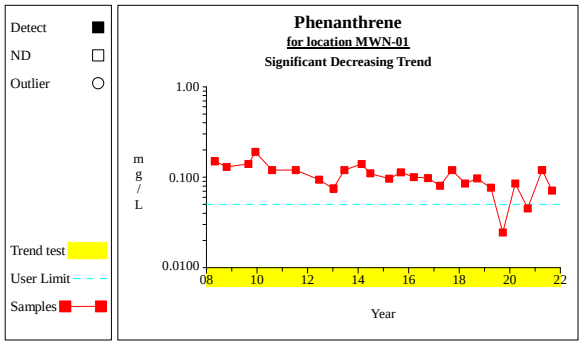

Detect
ND
Outlier
Trend test
User Limit
Samples
Fluorene
for location MWN-01
Significant Decreasing Trend
mg/L
1.00
0.100
0.0100
08 10 12 14 16 18 20 22
Year

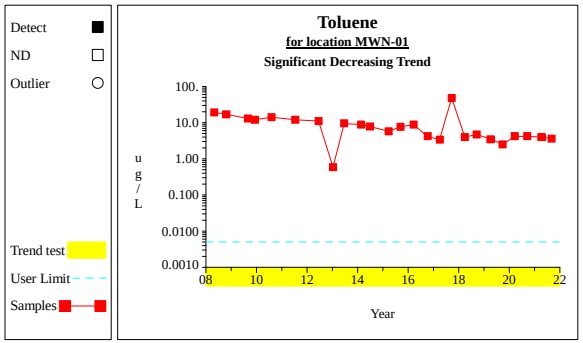

Detect
ND
Outlier
Trend test
User Limit
Samples
Indeno(1,2,3-cd)pyrene
for location MWN-01
mg/L
0.100
0.0100
0.0010
0.0001
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

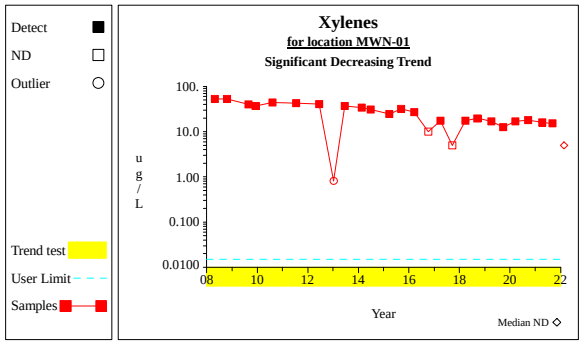

Detect
ND
Outlier
Trend test
User Limit
Samples
M,p-xylene
for location MWN-01
mg/L
0.100
0.0100
0.0010
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND


Detect
ND
Outlier
Trend test
User Limit
Samples
Naphthalene
for location MWN-01
ug/L
10000.
1000.
100.
10.0
08 10 12 14 16 18 20 22
Year

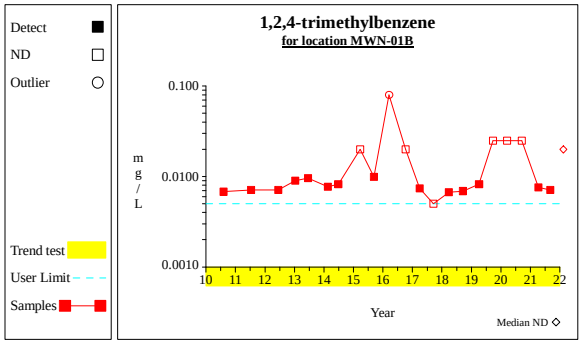

Detect
ND
Outlier
Trend test
User Limit
Samples
O-xylene
for location MWN-01
Significant Decreasing Trend
mg/L
1.00
0.100
0.0100
0.0010
0.0001
12 13 14 15 16 17 18 19 20 21 22
Year

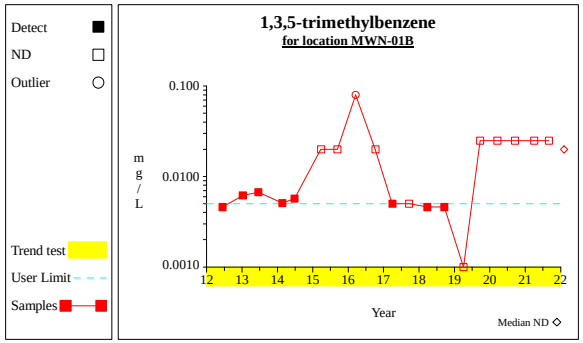

Detect
ND
Outlier
Trend test
User Limit
Samples
Phenanthrene
for location MWN-01
Significant Decreasing Trend
mg/L
1.00
0.100
0.0100
08 10 12 14 16 18 20 22
Year

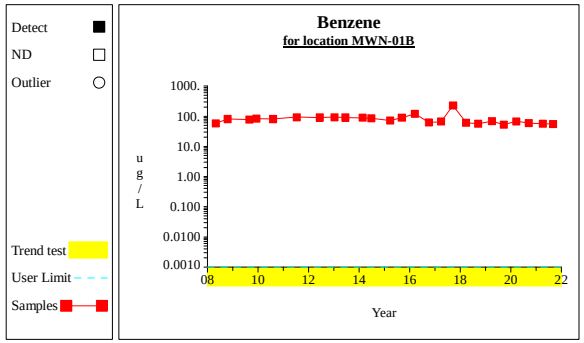

Detect
ND
Outlier
Trend test
User Limit
Samples
Toluene
for location MWN-01
Significant Decreasing Trend
ug/L
100.
10.0
1.00
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year

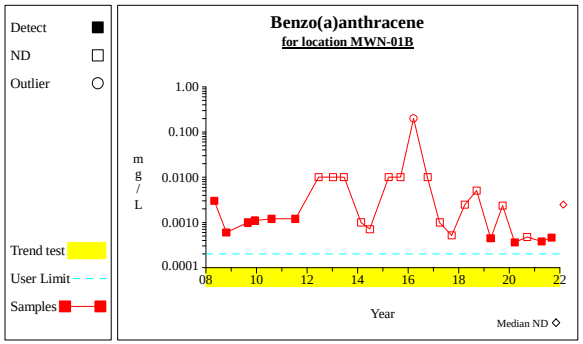

Detect
ND
Outlier
Trend test
User Limit
Samples
Xylenes
for location MWN-01
Significant Decreasing Trend
ug/L
100.
10.0
1.00
0.100
0.0100
08 10 12 14 16 18 20 22
Year
Median ND

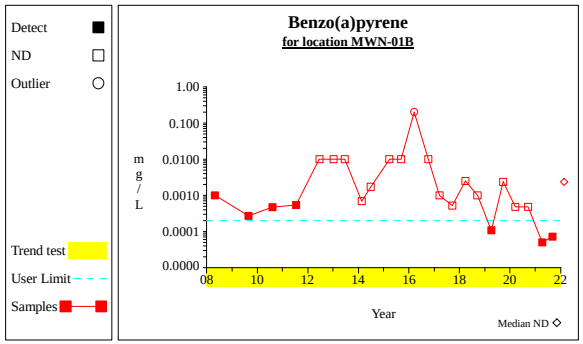
Time Series

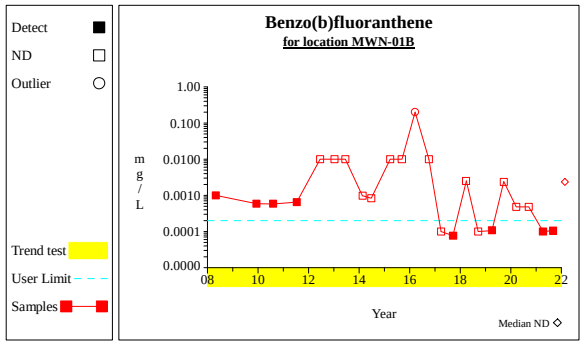

Detect
ND
Outlier
Trend test
User Limit
Samples
1,2,4-trimethylbenzene
for location MWN-01B
m g / L
0.100
0.0100
0.0010
10 11 12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

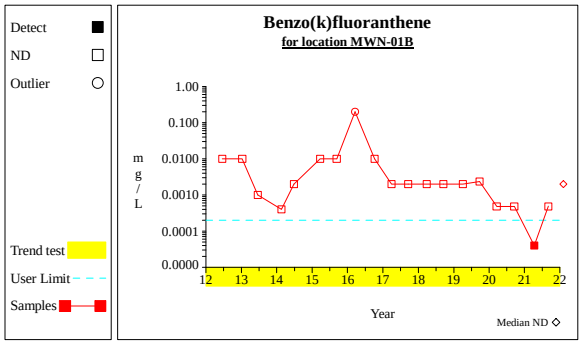

Detect
ND
Outlier
Trend test
User Limit
Samples
1,3,5-trimethylbenzene
for location MWN-01B
m g / L
0.100
0.0100
0.0010
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

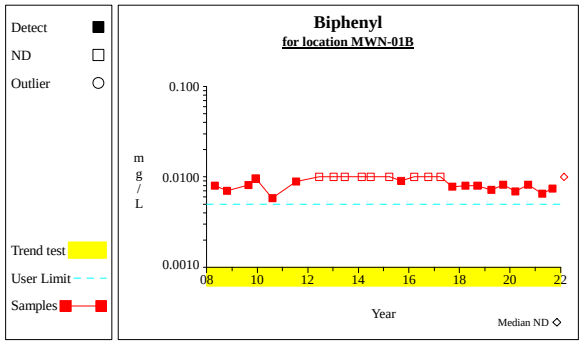

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzene
for location MWN-01B
u g / L
1000.
100.
10.0
1.00
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year

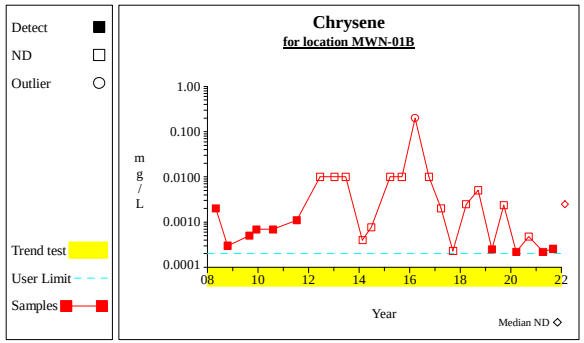

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(a)anthracene
for location MWN-01B
m g / L
1.00
0.100
0.0100
0.0010
0.0001
08 10 12 14 16 18 20 22
Year
Median ND


Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(a)pyrene
for location MWN-01B
m g / L
1.00
0.100
0.0100
0.0010
0.0001
0.0000
08 10 12 14 16 18 20 22
Year
Median ND

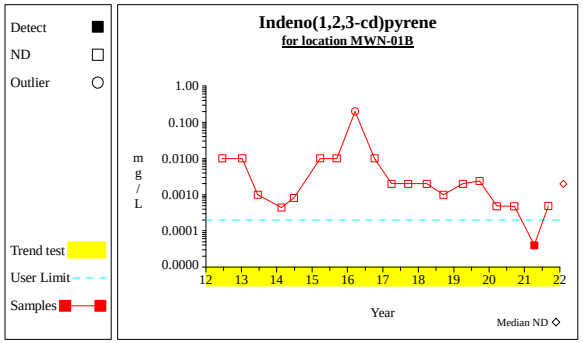

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(b)fluoranthene
for location MWN-01B
m g / L
1.00
0.100
0.0100
0.0010
0.0001
0.0000
08 10 12 14 16 18 20 22
Year
Median ND

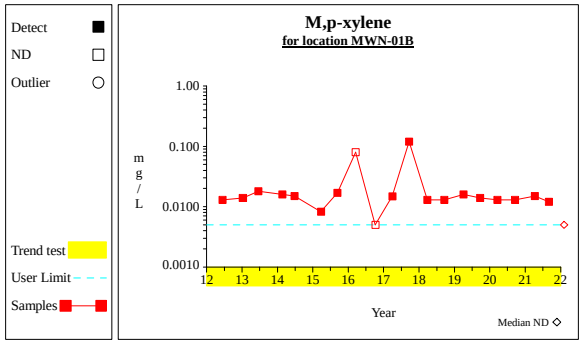

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(k)fluoranthene
for location MWN-01B
m g / L
1.00
0.100
0.0100
0.0010
0.0001
0.0000
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

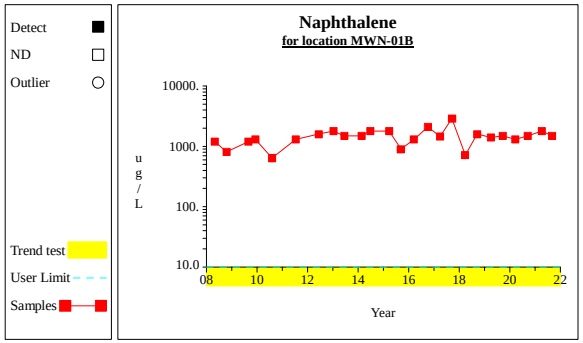

Detect
ND
Outlier
Trend test
User Limit
Samples
Biphenyl
for location MWN-01B
m g / L
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year
Median ND

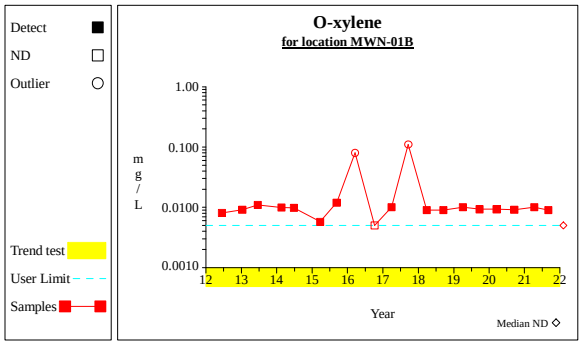

Detect
ND
Outlier
Trend test
User Limit
Samples
Chrysene
for location MWN-01B
m g / L
1.00
0.100
0.0100
0.0010
0.0001
08 10 12 14 16 18 20 22
Year
Median ND

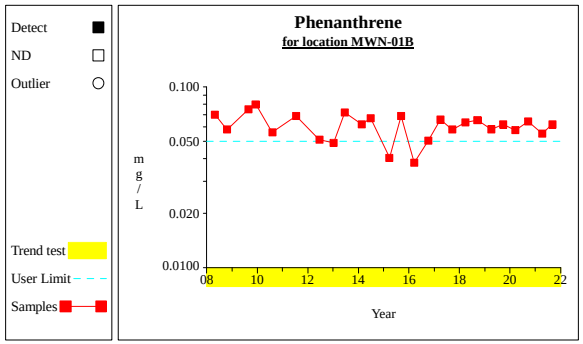
Time Series

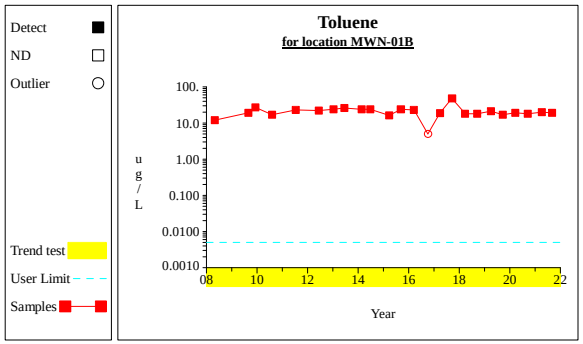

Detect
ND
Outlier
Trend test
User Limit
Samples
Indeno(1,2,3-cd)pyrene
for location MWN-01B
mg/L
1.00
0.100
0.0100
0.0010
0.0001
0.0000
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

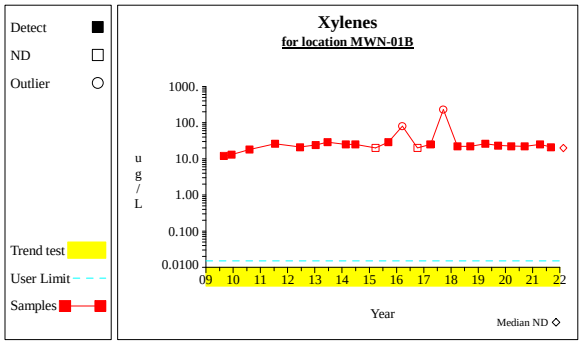

Detect
ND
Outlier
Trend test
User Limit
Samples
M,p-xylene
for location MWN-01B
mg/L
1.00
0.100
0.0100
0.0010
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND


Detect
ND
Outlier
Trend test
User Limit
Samples
Naphthalene
for location MWN-01B
ug/L
10000.
1000.
100.
10.0
08 10 12 14 16 18 20 22
Year

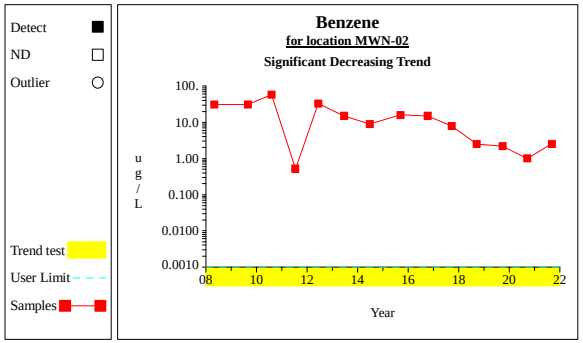

Detect
ND
Outlier
Trend test
User Limit
Samples
O-xylene
for location MWN-01B
mg/L
1.00
0.100
0.0100
0.0010
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

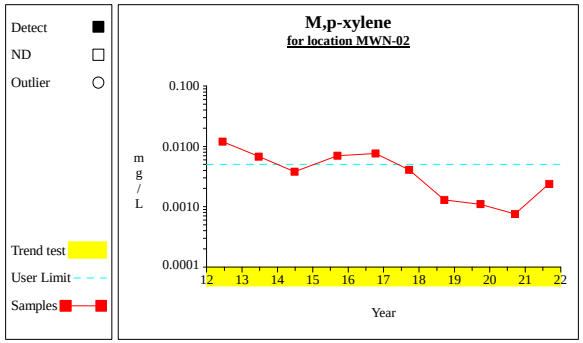

Detect
ND
Outlier
Trend test
User Limit
Samples
Phenanthrene
for location MWN-01B
mg/L
0.100
0.050
0.020
0.0100
08 10 12 14 16 18 20 22
Year

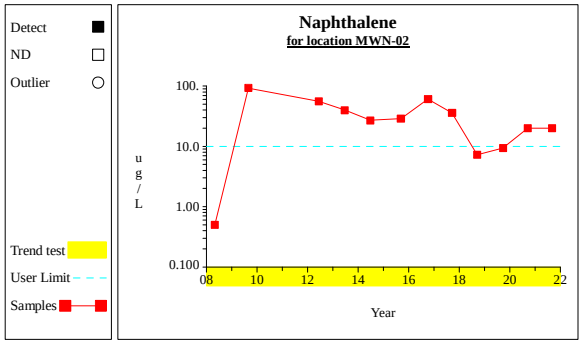

Detect
ND
Outlier
Trend test
User Limit
Samples
Toluene
for location MWN-01B
ug/L
100.
10.0
1.00
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year

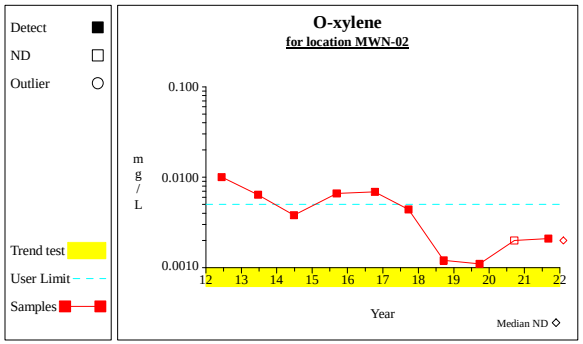

Detect
ND
Outlier
Trend test
User Limit
Samples
Xylenes
for location MWN-01B
ug/L
1000.
100.
10.0
1.00
0.100
0.0100
09 10 11 12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

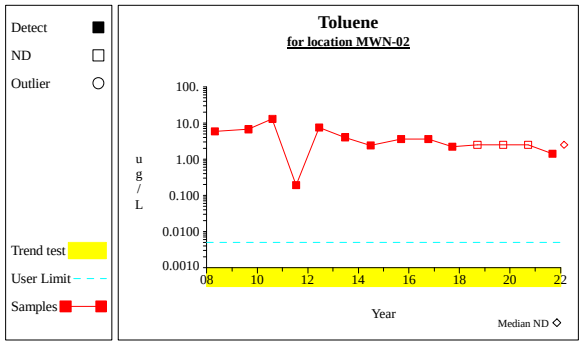
Time Series

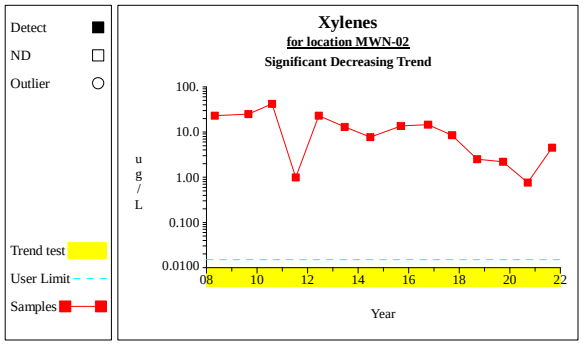

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzene
for location MWN-02
Significant Decreasing Trend
ug/L
100.
10.0
1.00
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year


Detect
ND
Outlier
Trend test
User Limit
Samples
M,p-xylene
for location MWN-02
mg/L
0.100
0.0100
0.0010
0.0001
12 13 14 15 16 17 18 19 20 21 22
Year

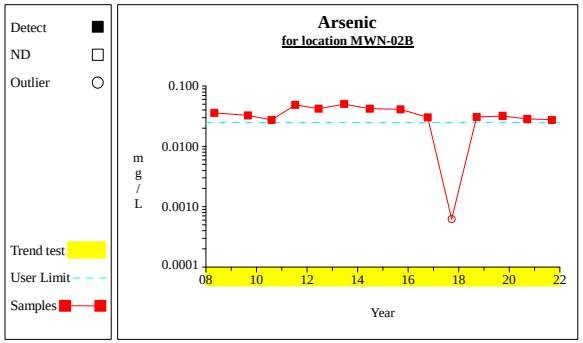

Detect
ND
Outlier
Trend test
User Limit
Samples
Naphthalene
for location MWN-02
ug/L
100.
10.0
1.00
0.100
08 10 12 14 16 18 20 22
Year

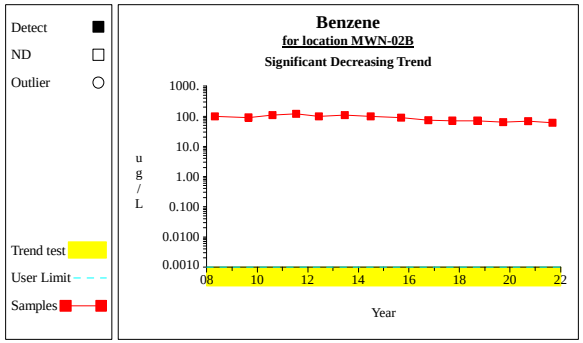

Detect
ND
Outlier
Trend test
User Limit
Samples
O-xylene
for location MWN-02
mg/L
0.100
0.0100
0.0010
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

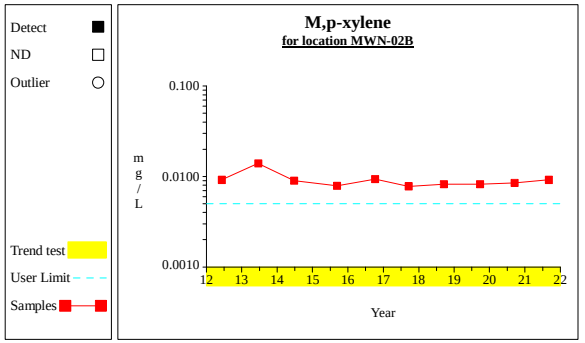

Detect
ND
Outlier
Trend test
User Limit
Samples
Toluene
for location MWN-02
ug/L
100.
10.0
1.00
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year
Median ND

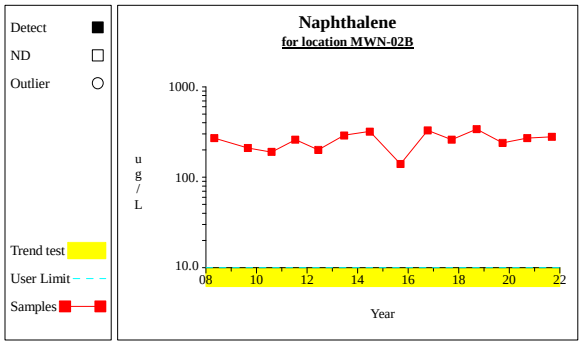

Detect
ND
Outlier
Trend test
User Limit
Samples
Xylenes
for location MWN-02
Significant Decreasing Trend
ug/L
100.
10.0
1.00
0.100
0.0100
08 10 12 14 16 18 20 22
Year

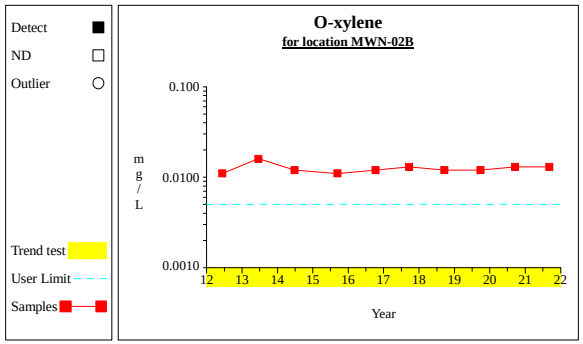
Time Series

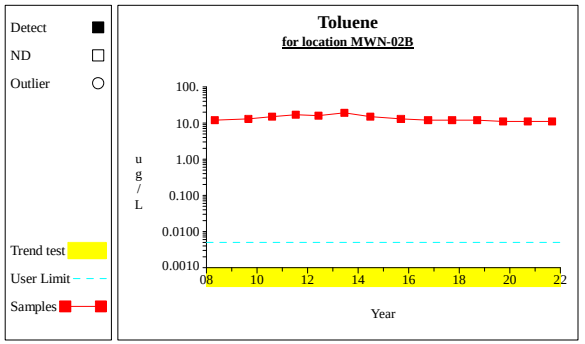

Detect
ND
Outlier
Trend test
User Limit
Samples
Arsenic
for location MWN-02B
mg/L
0.100
0.0100
0.0010
0.0001
08 10 12 14 16 18 20 22
Year

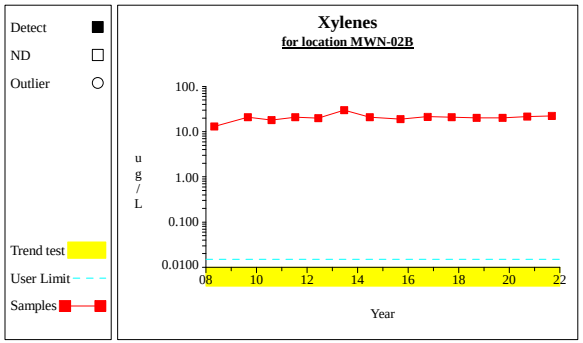

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzene
for location MWN-02B
Significant Decreasing Trend
ug/L
1000.
100.
10.0
1.00
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year


Detect
ND
Outlier
Trend test
User Limit
Samples
M,p-xylene
for location MWN-02B
mg/L
0.100
0.0100
0.0010
12 13 14 15 16 17 18 19 20 21 22
Year

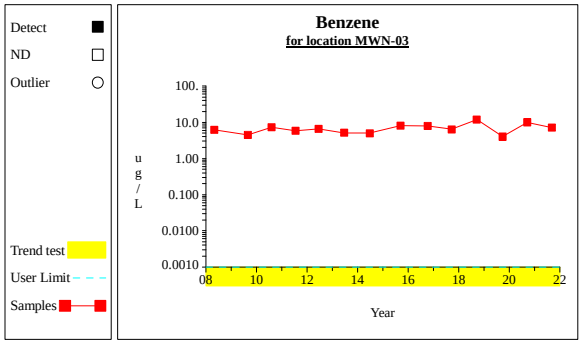

Detect
ND
Outlier
Trend test
User Limit
Samples
Naphthalene
for location MWN-02B
ug/L
1000.
100.
10.0
08 10 12 14 16 18 20 22
Year

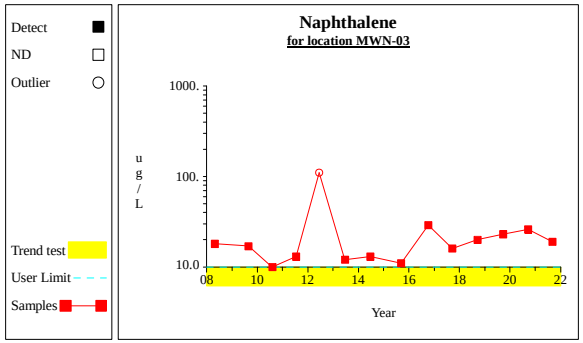

Detect
ND
Outlier
Trend test
User Limit
Samples
O-xylene
for location MWN-02B
mg/L
0.100
0.0100
0.0010
12 13 14 15 16 17 18 19 20 21 22
Year


Detect
ND
Outlier
Trend test
User Limit
Samples
Toluene
for location MWN-02B
ug/L
100.
10.0
1.00
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year


Detect
ND
Outlier
Trend test
User Limit
Samples
Xylenes
for location MWN-02B
ug/L
100.
10.0
1.00
0.100
0.0100
08 10 12 14 16 18 20 22
Year

Time Series

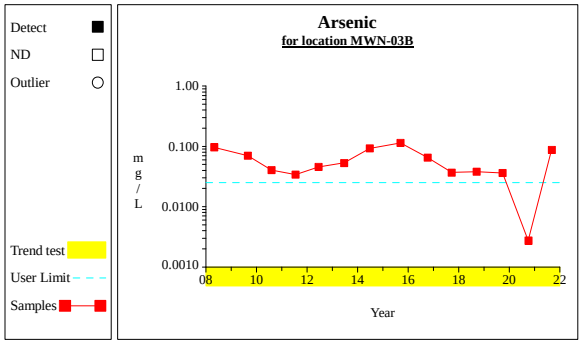

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzene
for location MWN-03
100.
10.0
1.00
0.100
0.0100
0.0010
u
g
/
L
08
10
12
14
16
18
20
22
Year

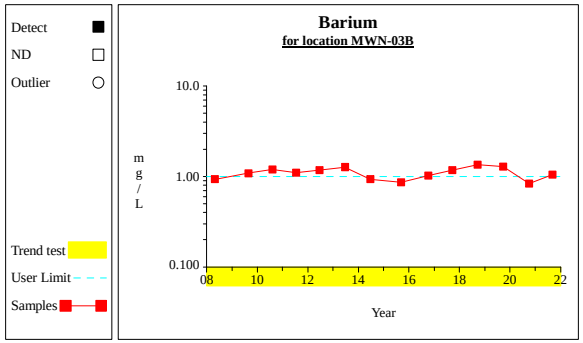

Detect
ND
Outlier
Trend test
User Limit
Samples
Naphthalene
for location MWN-03
1000.
100.
10.0
u
g
/
L
08
10
12
14
16
18
20
22
Year

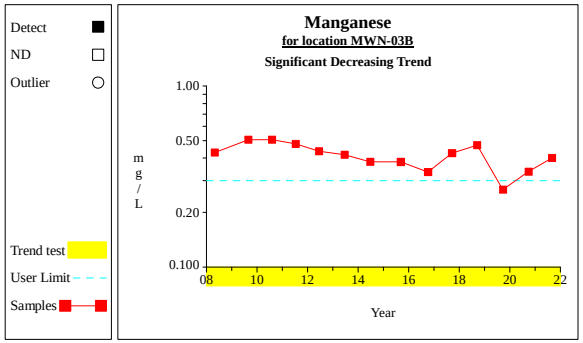
Steel Winds

Analysis prepared on: 12/3/2021

Time Series

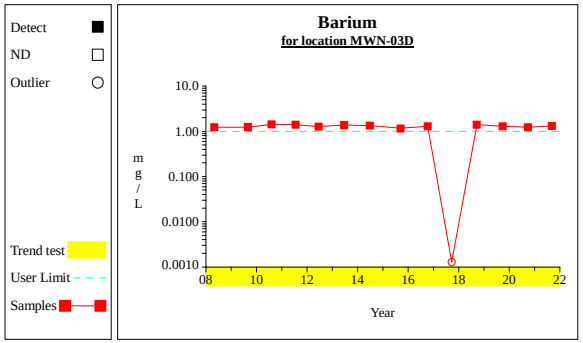


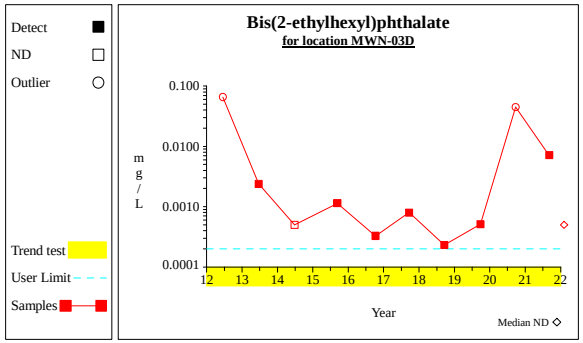


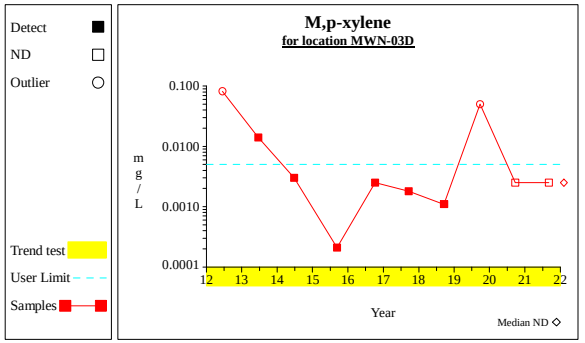


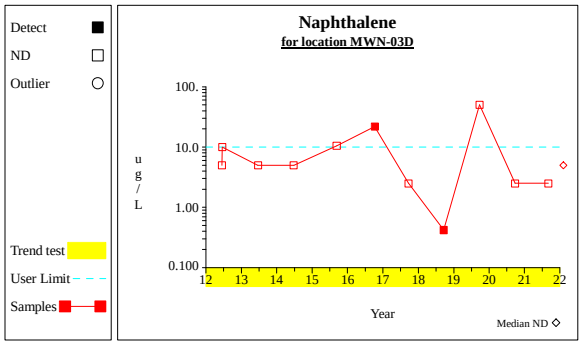
Prepared by: GZA GeoEnvironmental Inc.

Time Series

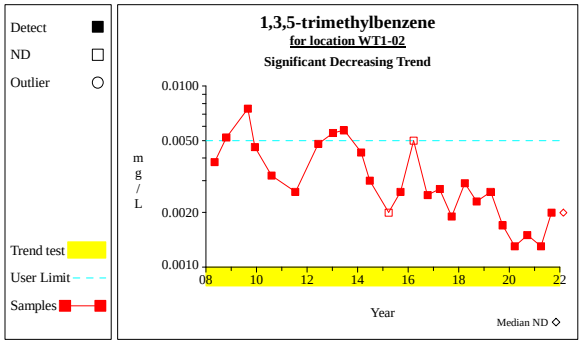

Detect
ND
Outlier
Trend test
User Limit
Samples
Barium
for location MWN-03D
10.0
1.00
0.100
0.0100
0.0010
m
g
/
L
08
10
12
14
16
18
20
22
Year

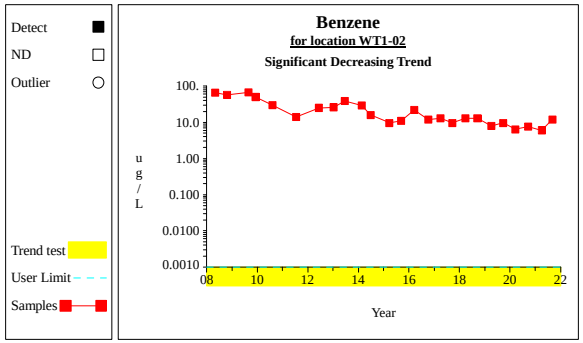

Detect
ND
Outlier
Trend test
User Limit
Samples
Bis(2-ethylhexyl)phthalate
for location MWN-03D
0.100
0.0100
0.0010
0.0001
m
g
/
L
12
13
14
15
16
17
18
19
20
21
22
Year
Median ND

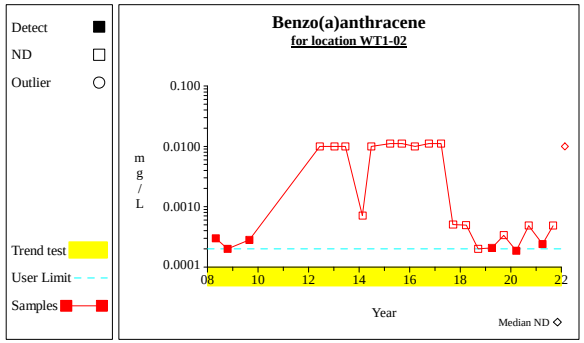

Detect
ND
Outlier
Trend test
User Limit
Samples
M,p-xylene
for location MWN-03D
0.100
0.0100
0.0010
0.0001
m
g
/
L
12
13
14
15
16
17
18
19
20
21
22
Year
Median ND

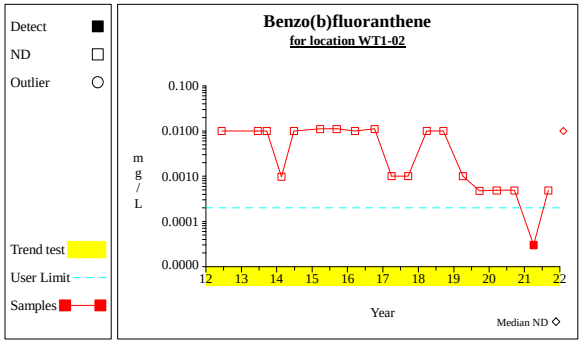

Detect
ND
Outlier
Trend test
User Limit
Samples
Naphthalene
for location MWN-03D
100.
10.0
1.00
0.100
u
g
/
L
12
13
14
15
16
17
18
19
20
21
22
Year
Median ND

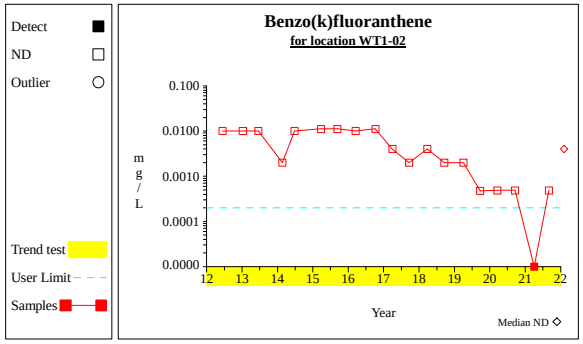
Time Series

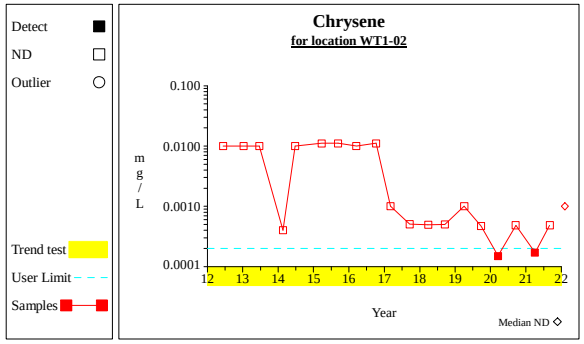

Detect
ND
Outlier
Trend test
User Limit
Samples
1,3,5-trimethylbenzene
for location WT1-02
Significant Decreasing Trend
mg/L
0.0100
0.0050
0.0020
0.0010
08 10 12 14 16 18 20 22
Year
Median ND

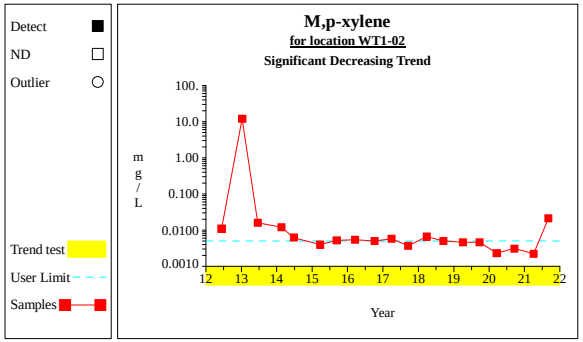

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzene
for location WT1-02
Significant Decreasing Trend
ug/L
100.
10.0
1.00
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year

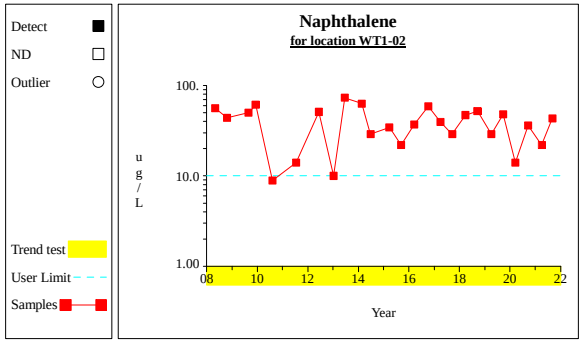

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(a)anthracene
for location WT1-02
mg/L
0.100
0.0100
0.0010
0.0001
08 10 12 14 16 18 20 22
Year
Median ND

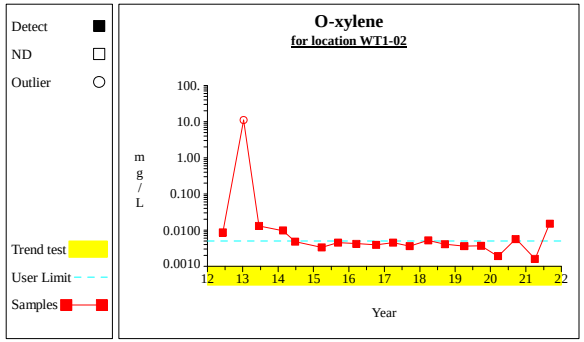

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(b)fluoranthene
for location WT1-02
mg/L
0.100
0.0100
0.0010
0.0001
0.0000
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND


Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(k)fluoranthene
for location WT1-02
mg/L
0.100
0.0100
0.0010
0.0001
0.0000
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

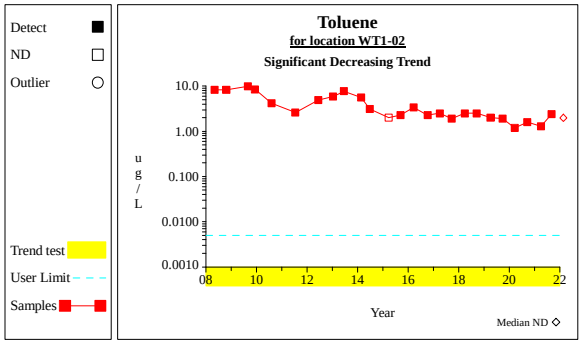

Detect
ND
Outlier
Trend test
User Limit
Samples
Chrysene
for location WT1-02
mg/L
0.100
0.0100
0.0010
0.0001
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

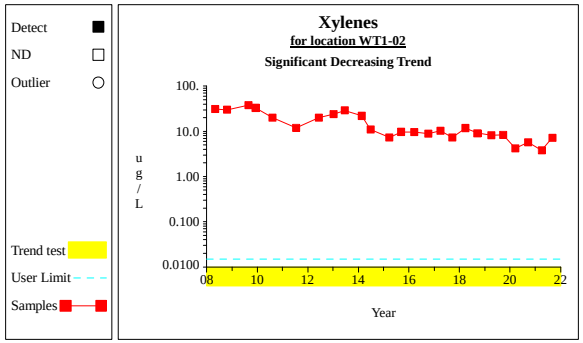

Detect
ND
Outlier
Trend test
User Limit
Samples
M,p-xylene
for location WT1-02
Significant Decreasing Trend
mg/L
100.
10.0
1.00
0.100
0.0100
0.0010
12 13 14 15 16 17 18 19 20 21 22
Year


Detect
ND
Outlier
Trend test
User Limit
Samples
Naphthalene
for location WT1-02
ug/L
100.
10.0
1.00
08 10 12 14 16 18 20 22
Year

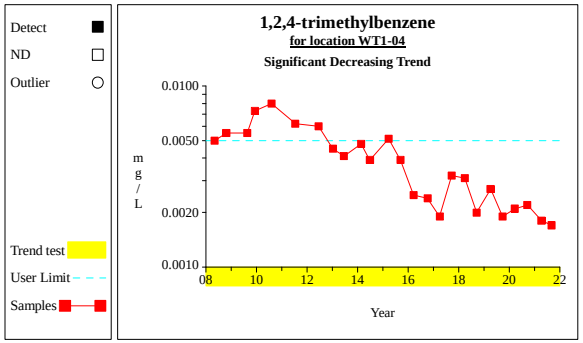

Detect
ND
Outlier
Trend test
User Limit
Samples
O-xylene
for location WT1-02
mg/L
100.
10.0
1.00
0.100
0.0100
0.0010
12 13 14 15 16 17 18 19 20 21 22
Year

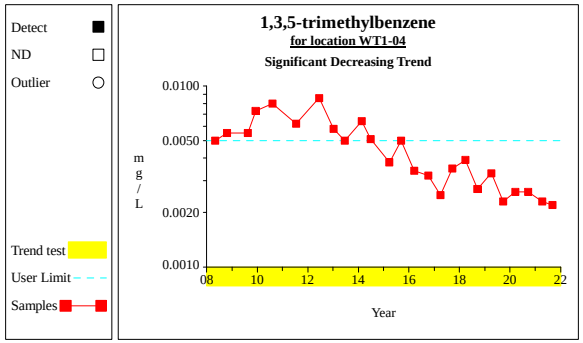
Time Series

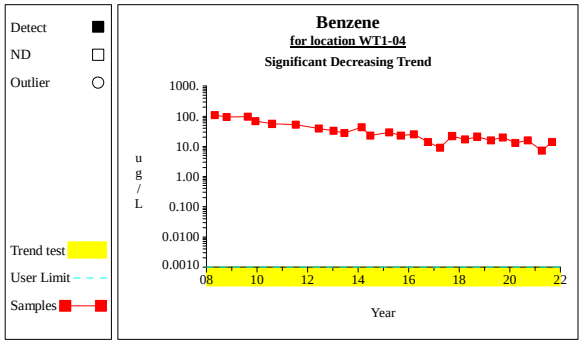

Detect
ND
Outlier
Trend test
User Limit
Samples
Toluene
for location WT1-02
Significant Decreasing Trend
10.0
1.00
0.100
0.0100
0.0010
u
g
/
L
08
10
12
14
16
18
20
22
Year
Median ND

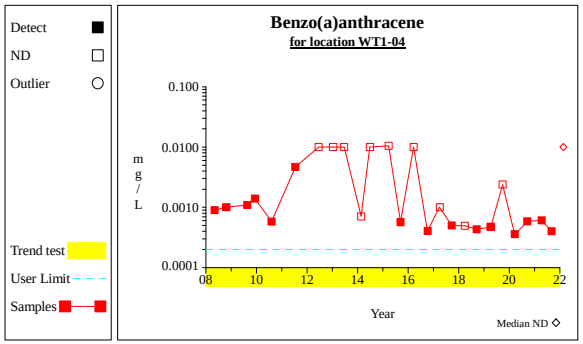

Detect
ND
Outlier
Trend test
User Limit
Samples
Xylenes
for location WT1-02
Significant Decreasing Trend
100.
10.0
1.00
0.100
0.0100
u
g
/
L
08
10
12
14
16
18
20
22
Year

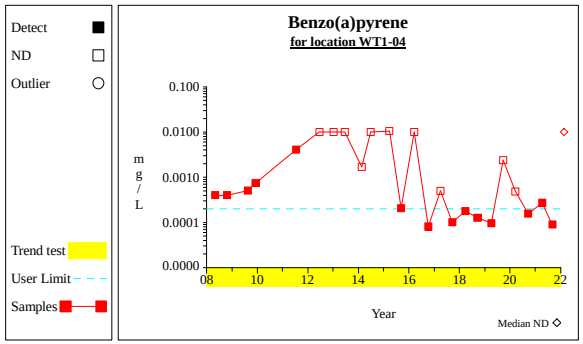
Time Series

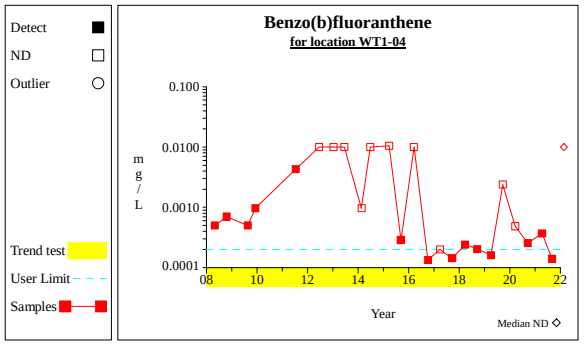

Detect
ND
Outlier
Trend test
User Limit
Samples
1,2,4-trimethylbenzene
for location WT1-04
Significant Decreasing Trend
mg/L
0.0100
0.0050
0.0020
0.0010
08 10 12 14 16 18 20 22
Year

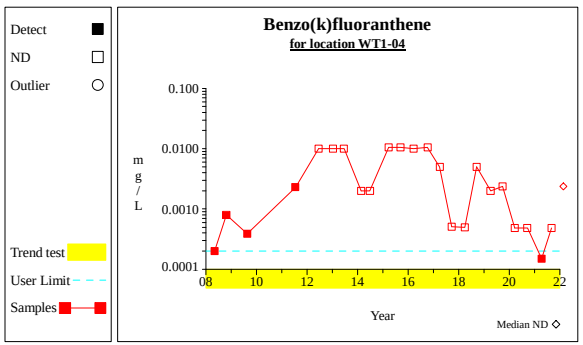

Detect
ND
Outlier
Trend test
User Limit
Samples
1,3,5-trimethylbenzene
for location WT1-04
Significant Decreasing Trend
mg/L
0.0100
0.0050
0.0020
0.0010
08 10 12 14 16 18 20 22
Year

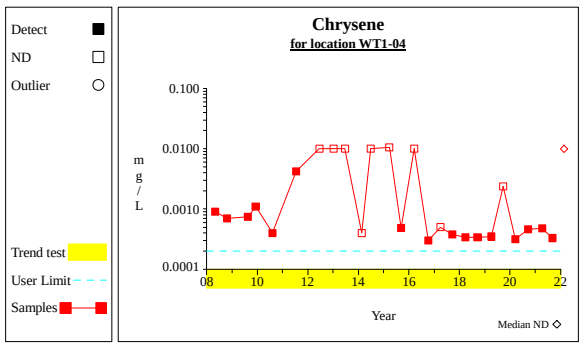

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzene
for location WT1-04
Significant Decreasing Trend
ug/L
1000.
100.
10.0
1.00
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year

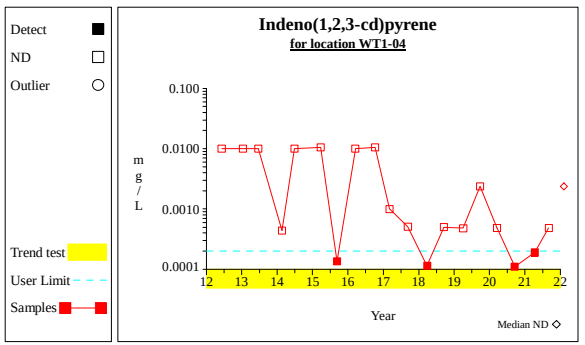

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(a)anthracene
for location WT1-04
mg/L
0.100
0.0100
0.0010
0.0001
08 10 12 14 16 18 20 22
Year
Median ND


Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(a)pyrene
for location WT1-04
mg/L
0.100
0.0100
0.0010
0.0001
0.0000
08 10 12 14 16 18 20 22
Year
Median ND

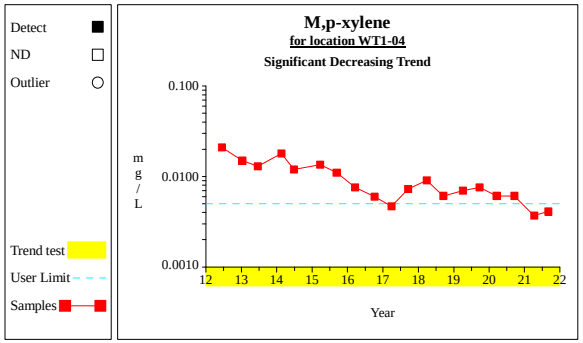

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(b)fluoranthene
for location WT1-04
mg/L
0.100
0.0100
0.0010
0.0001
08 10 12 14 16 18 20 22
Year
Median ND

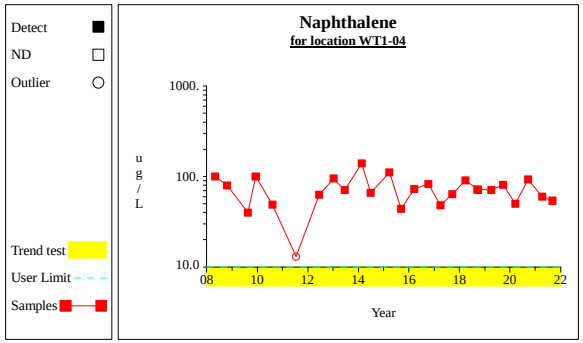

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(k)fluoranthene
for location WT1-04
mg/L
0.100
0.0100
0.0010
0.0001
08 10 12 14 16 18 20 22
Year
Median ND

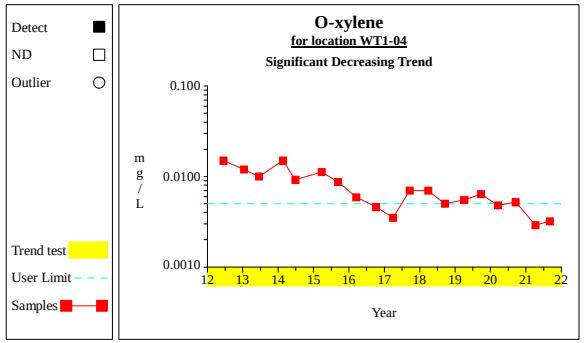

Detect
ND
Outlier
Trend test
User Limit
Samples
Chrysene
for location WT1-04
mg/L
0.100
0.0100
0.0010
0.0001
08 10 12 14 16 18 20 22
Year
Median ND

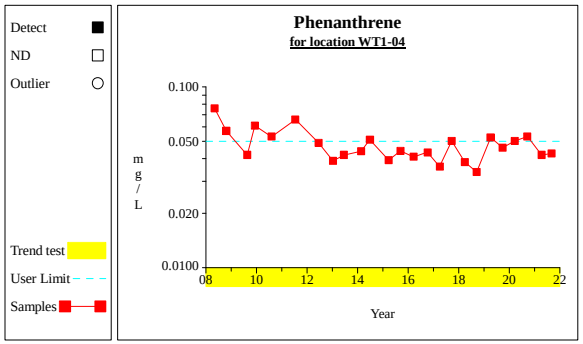

Detect
ND
Outlier
Trend test
User Limit
Samples
Indeno(1,2,3-cd)pyrene
for location WT1-04
mg/L
0.100
0.0100
0.0010
0.0001
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

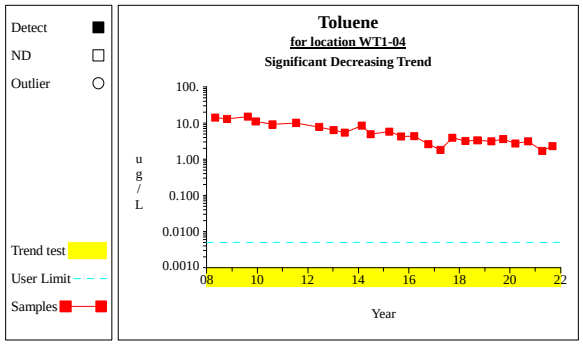
Time Series

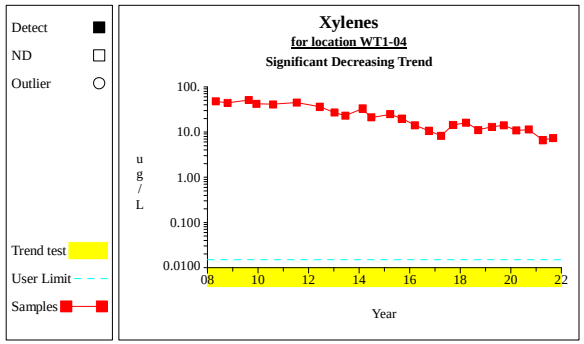

Detect
ND
Outlier
Trend test
User Limit
Samples
M,p-xylene
for location WT1-04
Significant Decreasing Trend
mg/L
0.100
0.0100
0.0010
12 13 14 15 16 17 18 19 20 21 22
Year


Detect
ND
Outlier
Trend test
User Limit
Samples
Naphthalene
for location WT1-04
ug/L
1000.
100.
10.0
08 10 12 14 16 18 20 22
Year

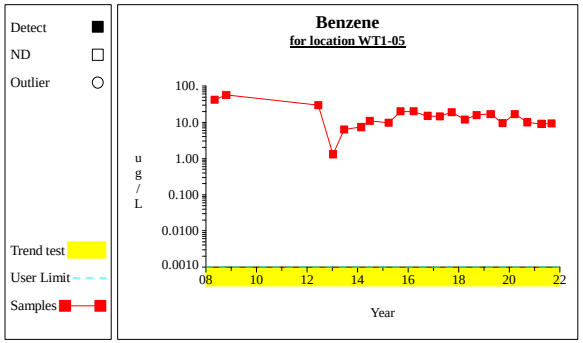

Detect
ND
Outlier
Trend test
User Limit
Samples
O-xylene
for location WT1-04
Significant Decreasing Trend
mg/L
0.100
0.0100
0.0010
12 13 14 15 16 17 18 19 20 21 22
Year

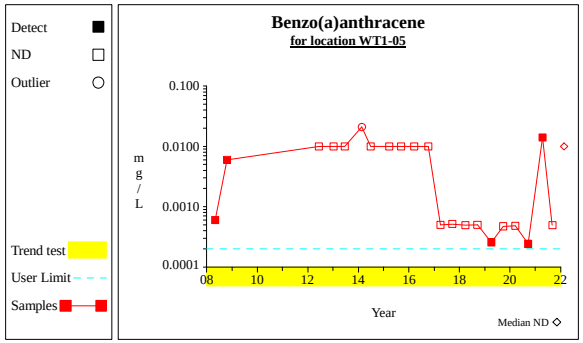

Detect
ND
Outlier
Trend test
User Limit
Samples
Phenanthrene
for location WT1-04
mg/L
0.100
0.050
0.020
0.0100
08 10 12 14 16 18 20 22
Year

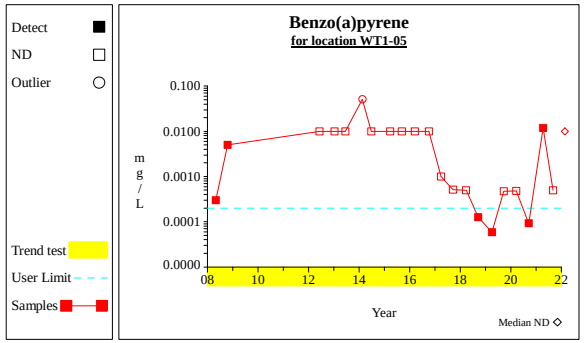

Detect
ND
Outlier
Trend test
User Limit
Samples
Toluene
for location WT1-04
Significant Decreasing Trend
ug/L
100.
10.0
1.00
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year

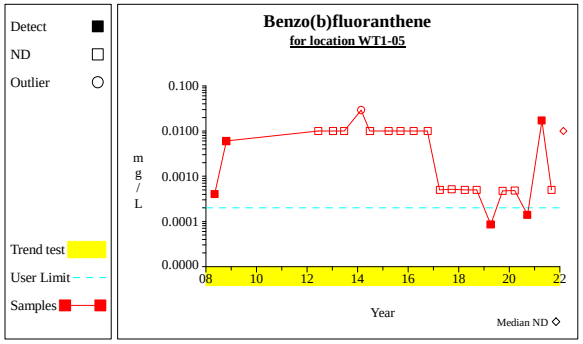

Detect
ND
Outlier
Trend test
User Limit
Samples
Xylenes
for location WT1-04
Significant Decreasing Trend
ug/L
100.
10.0
1.00
0.100
0.0100
08 10 12 14 16 18 20 22
Year

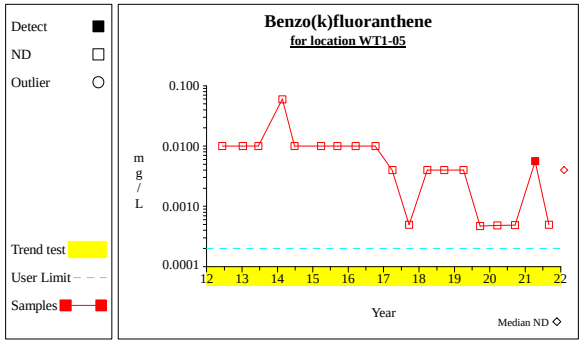
Time Series

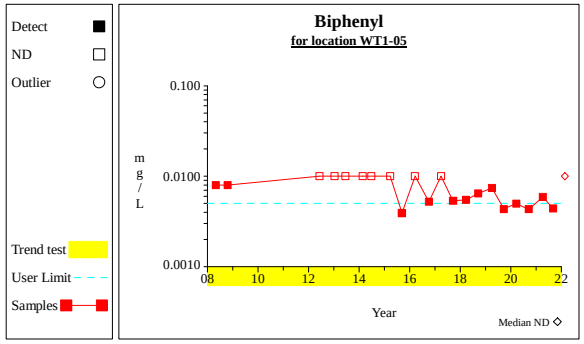

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzene
for location WT1-05
ug/L
100.
10.0
1.00
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year

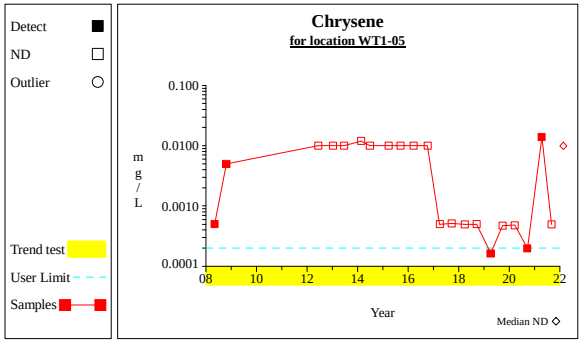

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(a)anthracene
for location WT1-05
mg/L
0.100
0.0100
0.0010
0.0001
08 10 12 14 16 18 20 22
Year
Median ND

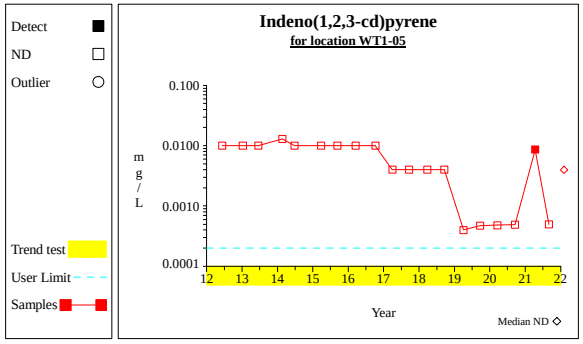

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(a)pyrene
for location WT1-05
mg/L
0.100
0.0100
0.0010
0.0001
0.0000
08 10 12 14 16 18 20 22
Year
Median ND

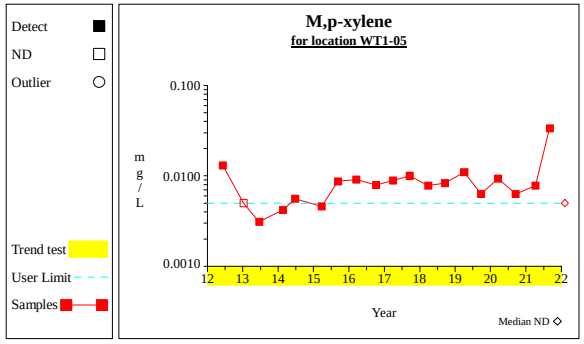

Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(b)fluoranthene
for location WT1-05
mg/L
0.100
0.0100
0.0010
0.0001
0.0000
08 10 12 14 16 18 20 22
Year
Median ND


Detect
ND
Outlier
Trend test
User Limit
Samples
Benzo(k)fluoranthene
for location WT1-05
mg/L
0.100
0.0100
0.0010
0.0001
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

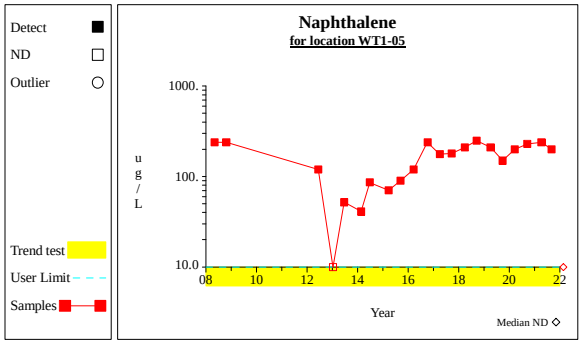

Detect
ND
Outlier
Trend test
User Limit
Samples
Biphenyl
for location WT1-05
mg/L
0.100
0.0100
0.0010
08 10 12 14 16 18 20 22
Year
Median ND


Detect
ND
Outlier
Trend test
User Limit
Samples
Chrysene
for location WT1-05
mg/L
0.100
0.0100
0.0010
0.0001
08 10 12 14 16 18 20 22
Year
Median ND


Detect
ND
Outlier
Trend test
User Limit
Samples
Indeno(1,2,3-cd)pyrene
for location WT1-05
mg/L
0.100
0.0100
0.0010
0.0001
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND


Detect
ND
Outlier
Trend test
User Limit
Samples
M,p-xylene
for location WT1-05
mg/L
0.100
0.0100
0.0010
12 13 14 15 16 17 18 19 20 21 22
Year
Median ND

Time Series


Detect
ND
Outlier
Trend test
User Limit
Samples
Naphthalene
for location WT1-05
1000.
100.
10.0
u
g
/
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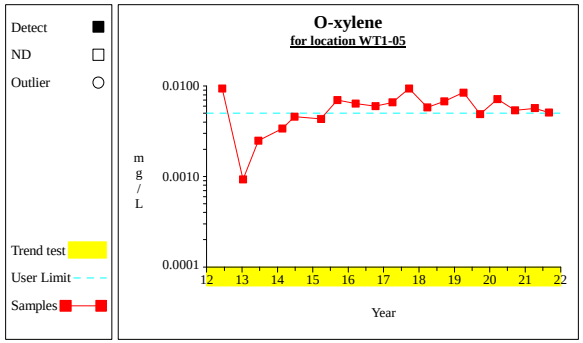
08
10
12
14
16
18
20
22
Year
Median ND


Detect
ND
Outlier
Trend test
User Limit
Samples
O-xylene
for location WT1-05
0.0100
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m
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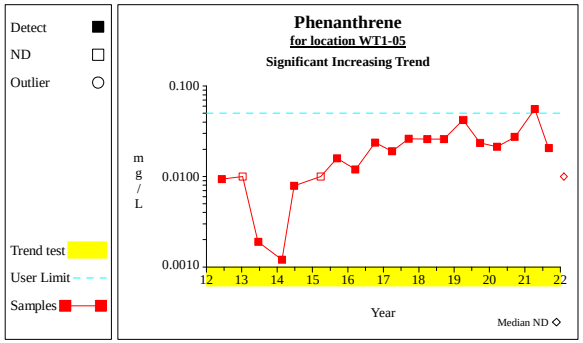
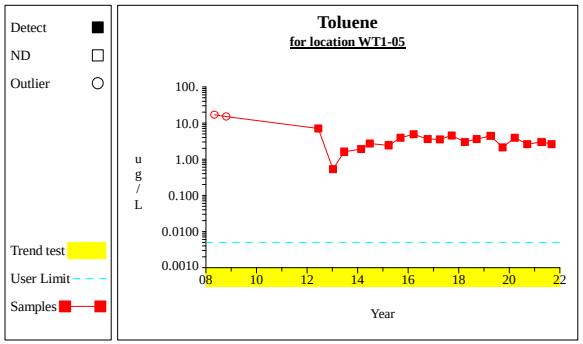
20
21
22
Year


Detect
ND
Outlier
Trend test
User Limit
Samples
Phenanthrene
for location WT1-05
Significant Increasing Trend
0.100
0.0100
0.0010
m
g
/
L
12
13
14
15
16
17
18
19
20
21
22
Year
Median ND


Detect
ND
Outlier
Trend test
User Limit
Samples
Toluene
for location WT1-05
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10.0
1.00
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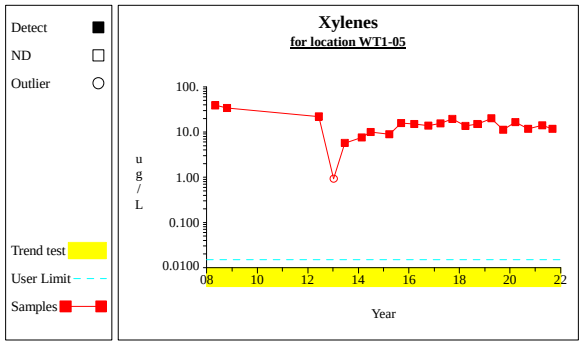
Year


Detect
ND
Outlier
Trend test
User Limit
Samples
Xylenes
for location WT1-05
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10.0
1.00
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Year

APPENDIX D

WELL DEVELOPMENT FORMS

File: 03.0033579.14

STEEL WINDS ANNUAL/SEMI-ANNUAL GROUNDWATER MONITORING EVENT
WELL DEVELOPMENT FORM
LACKAWANNA, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**MWN-01**	Ground Surface Elevation:	582.99	Riser/Screen Material:	PVC
Installation Date:	8/30/90	Groundwater Elevation:	573.55	Top of Screen Depth:	9.15
Installed By:	Turnkey	Monitoring Point Elevation:	585.14	Bottom of Screen Depth:	19.15
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color
13.54	11.59 - 11.75	1.051 -1.450	10.4 -14.4	1.23 - 2.9	Clear

Notes:
DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 and 4/2021 appear erroneous.

Field Observations		Parameters +/-		Sampling Information
Exterior Observations:	No changes from last sampling period	pH	+/- 0.1	Sample ID: **MWN-01**-090221
		Conductivity	+/- 3%	Sample Time: 09:15
Interior Observations	No changes from last sampling period	Temperature	+/- 10%	# of Sample Containers: Five
		Turbidity	+/- 10%	Duplicate Sample ID: NA
		ORP	+/- 10mV	Sample Analysis:
Signs of Damage/Tampering:	None	DO	+/- 10%	VOC STARS List via EPA 8260B

Locked (yes/**no**)	Well Cap (**yes**/no)	Surface Seal Intact (**yes**/no)	PID Measurement: ND	Odors:	SVOC B/N Via EPA 8270C

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged (Gal)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color	Dissolved Oxygen %	Oxygen Reduction Potential	Notes
9/2/2021	8:55	14.64	0	11.67	1.219	10.0	7.66	Clear	3.0	-107.3	Depth of Water: 11.59
	9:00	14.67	2	11.57	1.216	10.3	3.84	Clear	1.6	-144.5	Length of Water Column: 7.56
	9:05	14.67	4	11.55	1.216	10.5	3.07	Clear	1.7	-150.4	Depth of Well: 19.15
	9:10	14.67	6	11.53	1.213	10.8	2.77	Clear	1.5	-155.8	Sheen Observed: Y **N**
	9:15	14.67	8	11.53	1.212	10.8	2.61	Clear	1.2	-159.2	DNAPL Observed: Y **N**
											Did Well Go Dry: Y **N**
											Other: Sulfur odor.
											purged from well early.
											1 Well Volume = 4.9 gal

File: 03.0033579.14

STEEL WINDS ANNUAL/SEMI-ANNUAL GROUNDWATER MONITORING EVENT
WELL DEVELOPMENT FORM
LACKAWANNA, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**MWN-01B**	Ground Surface Elevation:	583.79	Riser/Screen Material:	PVC
Installation Date:	11/2/92	Groundwater Elevation:	571.53	Top of Screen Depth:	22.24
Installed By:	Turnkey	Monitoring Point Elevation:	587.03	Bottom of Screen Depth:	32.24
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color
14.48	11.29 -11.40	0.902 - 1.01	10.7 - 11.3	1.20 - 7.30	Clear

Notes:
DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 and 4/2021 appear erroneous.

Field Observations		Parameters +/-		Sampling Information
Exterior Observations:	No changes from last sampling period	pH	+/- 0.1	Sample ID: **MWN-01B**-090221
		Conductivity	+/- 3%	Sample Time: 10:20
Interior Observations	No changes from last sampling period	Temperature	+/- 10%	# of Sample Containers: Five
		Turbidity	+/- 10%	Duplicate Sample ID: NA
		ORP	+/- 10mV	Sample Analysis:
Signs of Damage/Tampering:	None	DO	+/- 10%	VOC STARS List via EPA 8260B

Locked (yes/**no**)	Well Cap (**yes**/no)	Surface Seal Intact (**yes**/no)	PID Measurement:	Odors:	SVOC B/N Via EPA 8270C

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged (Gal)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color	Dissolved Oxygen %	Oxygen Reduction Potential	Notes
9/2/2021	10:00	16.0	0	10.9	0.684	10.0	32.12	Clear	5.1	-105.9	Depth of Water: 15.50
	10:05	16.2	2	11.1	0.802	9.8	24.09	Clear	1.3	-185.1	Length of Water Column: 16.74
	10:10	16.2	4	11.1	0.808	9.8	8.73	Clear	1.0	-199.5	Depth of Well: 32.24
	10:15	16.2	6	11.1	0.828	9.8	8.12	Clear	0.9	-206.4	Sheen Observed: Y **N**
	10:20	16.2	8	11.1	0.831	9.8	7.67	Clear	0.8	-214.2	DNAPL Observed: Y **N**
											Did Well Go Dry: Y **N**
											Other: Sulfur odor.
											1 Well Volume = 2.7 gal

File: 03.0033579.14

STEEL WINDS ANNUAL/SEMI-ANNUAL GROUNDWATER MONITORING EVENT
WELL DEVELOPMENT FORM
LACKAWANNA, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**WT1-02**	Ground Surface Elevation:	598.5	Riser/Screen Material:	PVC
Installation Date:	6/11/07	Groundwater Elevation:	573.87	Top of Screen Depth:	27.78
Installed By:	Turnkey	Monitoring Point Elevation:	600.78	Bottom of Screen Depth:	37.78
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color
26.07	12.19 - 12.19	1.84 - 2.116	11.5 - 13.08	1.67 - 16	Clear

Notes:
DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 and 4/2021 appear erroneous.

Field Observations		Parameters +/-		Sampling Information
Exterior Observations:	No changes from last sampling period	pH	+/- 0.1	Sample ID: **WT1-02**-090221
		Conductivity	+/- 3%	Sample Time: 12:55
Interior Observations	No changes from last sampling period	Temperature	+/- 10%	# of Sample Containers: Five
		Turbidity	+/- 10%	Duplicate Sample ID: NA
		ORP	+/- 10mV	Sample Analysis:
Signs of Damage/Tampering:	None	DO	+/- 10%	VOC STARS List via EPA 8260B

Locked (yes/**no**)	Well Cap (**yes**/no)	Surface Seal Intact (**yes**/no)	PID Measurement:	Odors:	SVOC B/N Via EPA 8270C

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged (Gal)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color	Dissolved Oxygen %	Oxygen Reduction Potential	Notes
9/2/2021	12:40	27.52	0	11.98	1.808	12.7	2.9	clear	4.8	-103.2	Depth of Water: 26.91
	12:45	28.06	2	11.89	1.792	12.3	2.9	clear	3.9	-153.9	Length of Water Column: 10.87
	12:50	28.06	4	11.87	1.788	12.3	2.8	clear	4.3	-157.8	Depth of Well: 37.78
	12:55	28.06	6	11.85	1.77	12.3	2.7	clear	4.7	-160.7	Sheen Observed: Y **N**
											DNAPL Observed: Y **N**
											Did Well Go Dry: Y **N**
											Other: Sulfur odor.
											1 Well Volume = 7.0 gal

File: 03.0033579.14

STEEL WINDS ANNUAL/SEMI-ANNUAL GROUNDWATER MONITORING EVENT
WELL DEVELOPMENT FORM
LACKAWANNA, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**WT1-04**	Ground Surface Elevation:	584.43	Riser/Screen Material:	PVC
Installation Date:	5/21/07	Groundwater Elevation:	573.54	Top of Screen Depth:	15.52
Installed By:	Turnkey	Monitoring Point Elevation	586.45	Bottom of Screen Depth:	25.52
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color
11.92	11.89 - 11.99	1.353 - 1.550	10.2 -13.27	1.31 - 8.3	Clear

Notes:
DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 and 4/2021 appear erroneous.

Field Observations		Parameters +/-		Sampling Information
Exterior Observations:	No changes from last sampling period	pH	+/- 0.1	Sample ID: **WT1-04**-090221
		Conductivity	+/- 3%	Sample Time: 11:10
Interior Observations	No changes from last sampling period	Temperature	+/- 10%	# of Sample Containers: Five
		Turbidity	+/- 10%	Duplicate Sample ID: NA
		ORP	+/- 10mV	Sample Analysis:
Signs of Damage/Tampering:	None	DO	+/- 10%	VOC STARS List via EPA 8260B

Locked (yes/**no**)	Well Cap (**yes**/no)	Surface Seal Intact (**yes**/no)	PID Measurement:	Odors:	SVOC B/N Via EPA 8270C

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged (Gal)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color	Dissolved Oxygen %	Oxygen Reduction Potential	Notes
9/2/2021	10:55	13.13	0	11.74	1.637	11.4	116.4	grey	7	-105.4	Depth of Water: 12.91
	11:00	13.13	2	11.57	1.369	11.2	4.2	clear	1.4	-154.8	Length of Water Column: 12.61
	11:05	13.13	4	11.56	1.351	11.1	3.9	clear	1.2	-167.8	Depth of Well: 25.52
	11:10	13.13	6	11.51	1.326	11.1	3.76	clear	1.0	-172.4	Sheen Observed: Y **N**
											DNAPL Observed: Y **N**
											Did Well Go Dry: Y **N**
											Other: Sulfur odor.
											1 Well Volume = 2.0 gal

File: 03.0033579.14

STEEL WINDS ANNUAL/SEMI-ANNUAL GROUNDWATER MONITORING EVENT
WELL DEVELOPMENT FORM
LACKAWANNA, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**WT1-05**	Ground Surface Elevation:	581.66	Riser/Screen Material:	PVC
Installation Date:	5/29/07	Groundwater Elevation:	572.56	Top of Screen Depth:	13.30
Installed By:	Turnkey	Monitoring Point Elevation	584.41	Bottom of Screen Depth:	23.30
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color
10.8	11.35 - 11.93	1.20 - 1.490	10.4 - 12.57	2.8 - 5.3	Clear

Notes:
DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 and 4/2021 appear erroneous.

Field Observations		Parameters +/-		Sampling Information
Exterior Observations:	No changes from last sampling period	pH	+/- 0.1	Sample ID: **WT1-05**-090221
		Conductivity	+/- 3%	Sample Time: 08:17
Interior Observations	No changes from last sampling period	Temperature	+/- 10%	# of Sample Containers: Five
		Turbidity	+/- 10%	Duplicate Sample ID: NA
		ORP	+/- 10mV	Sample Analysis:
Signs of Damage/Tampering:	None	DO	+/- 10%	VOC STARS List via EPA 8260B

Locked (yes/**no**)	Well Cap (**yes**/no)	Surface Seal Intact (**yes**/no)	PID Measurement:	Odors:	SVOC B/N Via EPA 8270C

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged (Gal)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color	Dissolved Oxygen %	Oxygen Reduction Potential	Notes
9/2/2021	8:02	11.92	0	11.41	1.296	11.0	81.79	brownish	4.9	16.1	Depth of Water: 11.85
	8:07	11.92	5	11.46	1.280	11.0	3.82	clear	1.8	-81.8	Length of Water Column: 11.45
	8:12	11.92	10	11.46	1.203	11.2	2.12	clear	1.4	-149.7	Depth of Well: 23.3
	8:17	11.92	15	11.46	1.200	11.2	1.74	clear	1.2	-157.2	Sheen Observed: Y **N**
											DNAPL Observed: Y **N**
											Did Well Go Dry: Y **N**
											Other: Sulfur odor.
											1 Well Volume = 1.8 gal

File: 03.0033579.14

STEEL WINDS ANNUAL/SEMI-ANNUAL GROUNDWATER MONITORING EVENT
WELL DEVELOPMENT FORM
LACKAWANNA, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**BCP-ORC-1**	Ground Surface Elevation:	589.47	Riser/Screen Material:	PVC
Installation Date:	10/3/07	Groundwater Elevation:	573.67	Top of Screen Depth:	24.68
Installed By:	Turnkey	Monitoring Point Elevation	591.97	Bottom of Screen Depth:	34.68
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color
17.76	11.4 - 11.57	0.990 - 1.360	11.1 - 12.02	2.1 - 11.4	Clear

Notes:
DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 and 4/2021 appear erroneous.

Field Observations		Parameters +/-		Sampling Information
Exterior Observations:	No changes from last sampling period	pH	+/- 0.1	Sample ID: **BCP-ORC**-090221
		Conductivity	+/- 3%	Sample Time: 12:10
Interior Observations	No changes from last sampling period	Temperature	+/- 10%	# of Sample Containers: Five
		Turbidity	+/- 10%	Duplicate Sample ID: NA
		ORP	+/- 10mV	Sample Analysis:
Signs of Damage/Tampering:	None	DO	+/- 10%	VOC STARS List via EPA 8260B

Locked (yes/**no**)	Well Cap (**yes**/no)	Surface Seal Intact (**yes**/no)	PID Measurement:	Odors:	SVOC B/N Via EPA 8270C

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged (Gal)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color	Dissolved Oxygen %	Oxygen Reduction Potential	Notes
9/2/2021	11:50	19.31	0	11.45	1.099	9.8	3.05	clear	2.99	-44.4	Depth of Water: 18.30
	11:55	19.56	2	11.29	0.988	9.9	2.39	clear	6.4	-143.7	Length of Water Column: 16.38
	12:00	19.56	4	11.27	0.967	10.0	2.23	clear	5.2	-174.0	Depth of Well: 34.68
	12:05	19.56	6	11.25	0.960	10.0	2.3	clear	4.9	-180.7	Sheen Observed: Y **N**
	12:10	19.56	8	11.21	0.957	10.0	2.17	clear	4.7	-188.1	DNAPL Observed: Y **N**
											Did Well Go Dry: Y **N**
											Other:
											1 Well Volume = 2.0 gal

File: 03.0033579.14

STEEL WINDS ANNUAL/SEMI-ANNUAL GROUNDWATER MONITORING EVENT
WELL DEVELOPMENT FORM
LACKAWANNA, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**MWN-02**	Ground Surface Elevation:	598.89	Riser/Screen Material: PVC	
Installation Date:	9/10/90	Groundwater Elevation:	573.31	Top of Screen Depth: 23.62	
Installed By:	Turnkey	Monitoring Point Elevation	601.01	Bottom of Screen Depth: 33.62	
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color
27.25	11.94 - 12.31	1.763 - 2.06	11.3 - 13.0	1.89 - 38.6	Clear

Notes:
DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 appear erroneous.

Field Observations		Parameters +/-		Sampling Information
Exterior Observations:	No changes from last sampling period	pH	+/- 0.1	Sample ID: **MWN-02**-090321
		Conductivity	+/- 3%	Sample Time: 08:35
Interior Observations	No changes from last sampling period	Temperature	+/- 10%	# of Sample Containers: Five
		Turbidity	+/- 10%	Duplicate Sample ID: NA
		ORP	+/- 10mV	Sample Analysis:
Signs of Damage/Tampering:	None	DO	+/- 10%	VOC STARS List via EPA 8260B

Locked (yes/**no**)	Well Cap (**yes**/no)	Surface Seal Intact (**yes**/no)	PID Measurement:	Odors:	SVOC B/N Via EPA 8270C

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged (Gal)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color	Dissolved Oxygen %	Oxygen Reduction Potential	Notes
9/3/2021	8:20	29.01	0	11.69	1.775	12.4	2.97	clear	3.5	-105.1	Depth of Water: 27.70
	8:25	29.02	1	11.72	1.778	12.6	2.85	clear	3.4	-107.2	Length of Water Column: 5.92
	8:30	29.02	2	11.70	1.778	12.6	2.68	clear	3	-112.8	Depth of Well: 33.62
	8:35	29.02	4	11.70	1.776	12.6	2.51	clear	2.8	-115.1	Sheen Observed: Y **N**
											DNAPL Observed: Y **N**
											Did Well Go Dry: Y **N**
											Other: Sulfur odor.
											1 Well Volume = 3.9 gal

File: 03.0033579.14

STEEL WINDS ANNUAL/SEMI-ANNUAL GROUNDWATER MONITORING EVENT
WELL DEVELOPMENT FORM
LACKAWANNA, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**MWN-02B**	Ground Surface Elevation:	599.00	Riser/Screen Material:	PVC
Installation Date:	11/2/92	Groundwater Elevation:	573.23	Top of Screen Depth:	46.28
Installed By:	Turnkey	Monitoring Point Elevation	601.28	Bottom of Screen Depth:	56.28
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color
27.55	11.34 - 11.75	0.942 - 1.13	12.1 - 13.4	1.76 - 6.9	Clear

Notes:
DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 appear erroneous.

Field Observations		Parameters +/-		Sampling Information
Exterior Observations:	No changes from last sampling period	pH	+/- 0.1	Sample ID: **MWN-02B**-090321
		Conductivity	+/- 3%	Sample Time: 08:00
Interior Observations	No changes from last sampling period	Temperature	+/- 10%	# of Sample Containers: Six
		Turbidity	+/- 10%	Duplicate Sample ID: NA
		ORP	+/- 10mV	Sample Analysis: Arsenic
Signs of Damage/Tampering:	None	DO	+/- 10%	VOC STARS List via EPA 8260B

Locked (yes/**no**)	Well Cap (**yes**/no)	Surface Seal Intact (**yes**/no)	PID Measurement:	Odors:	SVOC B/N Via EPA 8270C, arsenic

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged (Gal)	pH (Standard Units)	Specific Conductance (uMhos/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color	Dissolved Oxygen %	Oxygen Reduction Potential	Notes
9/3/2021	7:45	29.60	0	10.75	0.857	12.6	3.26	clear	4.0	-119.8	Depth of Water: 28.05
	7:50	29.81	2	11.28	0.918	12.6	3.00	clear	1.7	-186.5	Length of Water Column: 28.23
	7:55	29.81	4	11.29	0.912	12.6	2.76	clear	1.4	-194.2	Depth of Well: 56.28
	8:00	29.81	6	11.30	0.910	12.6	2.52	clear	1.2	-202.6	Sheen Observed: Y **N**
											DNAPL Observed: Y **N**
											Did Well Go Dry: Y **N**
											Other: Sulfur odor.
											1 Well Volume = 4.5 gal

File: 03.0033579.14

STEEL WINDS ANNUAL/SEMI-ANNUAL GROUNDWATER MONITORING EVENT
WELL DEVELOPMENT FORM
LACKAWANNA, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**MWN-02D**	Ground Surface Elevation:	600.61	Riser/Screen Material:	PVC
Installation Date:	8/4/95	Groundwater Elevation:	574.12	Top of Screen Depth:	74.34
Installed By:	Turnkey	Monitoring Point Elevation	602.95	Bottom of Screen Depth:	79.34
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color
28.51	7.00 - 7.42	1.864 - 2.08	12.6 - 13.7	1.61 - 15.1	Clear

Notes:
DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 appear erroneous.

Field Observations		Parameters +/-		Sampling Information
Exterior Observations:	No changes from last sampling period	pH	+/- 0.1	Sample ID: **MWN-02D**-090321
		Conductivity	+/- 3%	Sample Time: 07:25
Interior Observations	No changes from last sampling period	Temperature	+/- 10%	# of Sample Containers: One
		Turbidity	+/- 10%	Duplicate Sample ID: NA
		ORP	+/- 10mV	Sample Analysis: Barium, Arsenic
Signs of Damage/Tampering:	None	DO	+/- 10%	Chromium

Locked (yes/**no**)	Well Cap (**yes**/no)	Surface Seal Intact (**yes**/no)	PID Measurement:	Odors:

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged (Gal)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color	Dissolved Oxygen %	Oxygen Reduction Potential	Notes
9/3/2021	7:10	28.93	0	6.93	1.847	12.8	6.23	clear	3.4	-17.5	Depth of Water: 28.83
	7:15	28.93	2	6.66	1.429	12.8	5.35	clear	1.7	-45.4	Length of Water Column: 50.51
	7:20	28.93	4	6.64	1.396	12.9	5.22	clear	1.5	-49.9	Depth of Well: 79.34
	7:25	28.93	6	6.61	1.354	12.9	5.15	clear	1.5	-51.6	Sheen Observed: Y **N**
											DNAPL Observed: Y **N**
											Did Well Go Dry: Y **N**
											Other: Sulfur odor.
											1 Well Volume = 8.1 gal

File: 03.0033579.14

STEEL WINDS ANNUAL/SEMI-ANNUAL GROUNDWATER MONITORING EVENT
WELL DEVELOPMENT FORM
LACKAWANNA, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**MWN-03**	Ground Surface Elevation:	609.79	Riser/Screen Material:	PVC
Installation Date:	9/6/90	Groundwater Elevation:	573.07	Top of Screen Depth:	39.17
Installed By:	Turnkey	Monitoring Point Elevation	611.96	Bottom of Screen Depth:	49.17
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color
38.35	12.32 - 12.51	2.724 - 3.04	12.8 - 15.2	3.1 - 8.41	Clear

Notes:
DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 appear erroneous.

Field Observations		Parameters +/-		Sampling Information
Exterior Observations:	No changes from last sampling period	pH	+/- 0.1	Sample ID: **MWN-03**-090221
		Conductivity	+/- 3%	Sample Time: 15:05
Interior Observations	No changes from last sampling period	Temperature	+/- 10%	# of Sample Containers:
		Turbidity	+/- 10%	Duplicate Sample ID: NA
		ORP	+/- 10mV	Sample Analysis:
Signs of Damage/Tampering:	None	DO	+/- 10%	VOC STARS List via EPA 8260B

Locked (yes/**no**)	Well Cap (**yes**/no)	Surface Seal Intact (**yes**/no)	PID Measurement:	Odors:	SVOC B/N Via EPA 8270C

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged (Gal)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color	Dissolved Oxygen %	Oxygen Reduction Potential	Notes
9/2/2021	14:50	39.10	0	13.05	2.726	13.5	7.14	clear	5.4	-81.4	Depth of Water: 38.89
	14:55	39.76	2	12.00	2.729	13.3	5.12	clear	4.1	-258.1	Length of Water Column: 10.28
	15:00	39.76	4	12.01	2.729	13.3	4.97	clear	3.6	-264.8	Depth of Well: 49.17
	15:05	39.76	6	12.00	2.729	13.3	4.82	clear	2.1	-267.3	Sheen Observed: Y **N**
											DNAPL Observed: Y **N**
											Did Well Go Dry: Y **N**
											Other: Sulfur odor.
											1 Well Volume = 6.8 gal

File: 03.0033579.14

STEEL WINDS ANNUAL/SEMI-ANNUAL GROUNDWATER MONITORING EVENT
WELL DEVELOPMENT FORM
LACKAWANNA, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**MWN-03B**	Ground Surface Elevation:	609.57	Riser/Screen Material:	PVC
Installation Date:	11/5/92	Groundwater Elevation:	572.84	Top of Screen Depth:	60.72
Installed By:	Turnkey	Monitoring Point Elevation	612.29	Bottom of Screen Depth:	70.72
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color
38.68	7.21 - 7.80	2.413 - 3.139	13.2 - 14.3	3.85 - 38.04	Clear

Notes: Difficulty with downhole pump om 9/02/21. Had to return the next day (9/03/21) with assistance of second field sampler to help with sampling.
Turbidity samples were acceptable and no laboratory filtration was required. DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 appear erroneous.

Field Observations	Parameters +/-	Sampling Information
Exterior Observations: No changes from last sampling period	pH +/- 0.1	Sample ID: **MWN-03B**-090321
	Conductivity +/- 3%	Sample Time: 09:55
Interior Observations No changes from last sampling period	Temperature +/- 10%	# of Sample Containers: One
	Turbidity +/- 10%	Duplicate Sample ID: NA
	ORP +/- 10mV	Sample Analysis: Arsenic, Barium
Signs of Damage/Tampering: None	DO +/- 10%	Chromium, Manganese

Locked (yes/**no**)	Well Cap (**yes**/no)	Surface Seal Intact (**yes**/no)	PID Measurement:	Odors:

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged (Gal)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color	Dissolved Oxygen %	Oxygen Reduction Potential	Notes
9/3/2021	9:45	41.49	0.0	8.00	3.063	15.1	13.44	clear	15.9	-129.8	Depth of Water: 39.45
	9:45	42.90	0.5	7.33	2.594	14.5	16.26	clear	3.1	-136.2	Length of Water Column: 31.27
	9:50	42.90	1.0	7.29	2.586	14.7	16.36	clear	2.9	-142.8	Depth of Well: 70.72
	9:55	42.90	1.5	7.29	2.586	14.7	16.44	clear	2.9	-146.7	Sheen Observed: Y **N**
											DNAPL Observed: Y **N**
											Did Well Go Dry: Y **N**
											Other: Sulfur odor.
											1 Well Volume = 5.0 gal

File: 03.0033579.14

STEEL WINDS ANNUAL/SEMI-ANNUAL GROUNDWATER MONITORING EVENT
WELL DEVELOPMENT FORM
LACKAWANNA, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**MWN-03D**	Ground Surface Elevation:	610.75	Riser/Screen Material:	PVC
Installation Date:	7/29/94	Groundwater Elevation:	571.81	Top of Screen Depth:	111.26
Installed By:	Turnkey	Monitoring Point Elevation	613.51	Bottom of Screen Depth:	121.26
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color
37.42	6.17 - 6.52	24.662 - 26.69	12.9 - 14.4	1.97 - 29.4	Clear

Notes: Difficulty with downhole pump similar to the previous year. Had to bail the well using a disposable bailer.
Preservative removed from sample jar and advised the laboratory that they would need to filter the collected sample.
DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 appear erroneous.

Field Observations		Parameters +/-		Sampling Information
Exterior Observations:	No changes from last sampling period	pH	+/- 0.1	Sample ID: **MWN-03D**-090321
		Conductivity	+/- 3%	Sample Time: 10:05
Interior Observations	No changes from last sampling period	Temperature	+/- 10%	# of Sample Containers: Six
		Turbidity	+/- 10%	Duplicate Sample ID: NA
		ORP	+/- 10mV	Sample Analysis: Barium, Manganese
Signs of Damage/Tampering:	None	DO	+/- 10%	VOC STARS List via EPA 8260B

Locked (yes/**no**)	Well Cap (**yes**/no)	Surface Seal Intact (**yes**/no)	PID Measurement:	Odors:	SVOC B/N Via EPA 8270C, Barium. Manganese

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged (Gal)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color	Dissolved Oxygen %	Oxygen Reduction Potential	Notes
9/3/2021	8:55	45.17	13.0	7.31	24.41	13.5	35.83	clear	5.5	41.6	Depth of Water: 41.70
											Length of Water Column: 79.56
											Depth of Well: 121.26
											Sheen Observed: Y **N**
											DNAPL Observed: Y **N**
											Did Well Go Dry: Y **N**
											Other:
											1 Well Volume = 12.7 gal

File: 03.0033579.14

STEEL WINDS ANNUAL/SEMI-ANNUAL GROUNDWATER MONITORING EVENT
WELL DEVELOPMENT FORM
LACKAWANNA, NEW YORK

Historic Information

Boring Log Available (**yes**/no/attached):
Installation Log Available (**yes**/no/attached)

Summary

Monitoring Well :	**MWN-04**	Ground Surface Elevation:	621.02	Riser/Screen Material:	PVC
Installation Date:	9/12/90	Groundwater Elevation:	572.84	Top of Screen Depth:	48.53
Installed By:	Turnkey	Monitoring Point Elevation	623.45	Bottom of Screen Depth:	58.53
		Elevation Datum:			

Previous Field measurement Information Available (yes/**no**/attached)

Ranges of Previous Field Measurements

Depth to Water (ft)	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color
49.92	11.71 - 12.05	2.311 - 2.72	15.97 - 16.7	2.2 - 2.6	Clear

Notes:
DO and pH measurements are routinely made using the same model water quality meter, however the measurements made on 9/2020 appear erroneous.

Field Observations		Parameters +/-		Sampling Information
Exterior Observations:	No changes from last sampling period	pH	+/- 0.1	Sample ID: **MWN-04**-090221
		Conductivity	+/- 3%	Sample Time: 15:55
Interior Observations	No changes from last sampling period	Temperature	+/- 10%	# of Sample Containers: Five
		Turbidity	+/- 10%	Duplicate Sample ID: NA
		ORP	+/- 10mV	Sample Analysis:
Signs of Damage/Tampering:		DO	+/- 10%	VOC STARS List via EPA 8260B

Locked (yes/**no**)	Well Cap (**yes**/no)	Surface Seal Intact (**yes**/no)	PID Measurement:	Odors:	SVOC B/N Via EPA 8270C

Well Quality Data

Date	Time	Depth to Water ft bgs	Cumulative Volume Purged	pH (Standard Units)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Color	Dissolved Oxygen %	Oxygen Reduction Potential	Notes
9/2/2021	15:40	51.45	0	11.58	2.331	15.8	2.25	clear	14.6	-96.1	Depth of Water: 50.61
	15:45	51.82	1	11.57	2.313	15.7	2.02	clear	3.8	-75.6	Length of Water Column: 7.92
	15:50	51.82	2	11.57	2.313	15.7	2.00	clear	3.2	-77.8	Depth of Well: 58.53
	15:55	51.82	3	11.57	2.313	15.7	1.98	clear	3.0	-81.2	Sheen Observed: Y **N**
											DNAPL Observed: Y **N**
											Did Well Go Dry: Y **N**
											Other: Sulfur odor.
											1 Well Volume = 5.2 gal

GZA GeoEnvironmental, Inc.