2021 Periodic Review Report

Location:

Former Roblin Steel Site
320 South Roberts Road, Dunkirk, New York
NYSDEC Site No. B00173-9

Prepared for:

Chautauqua County Department of Public Facilities
454 North Work Street
Falconer, New York

LaBella Project No. 2200014

February 24, 2022

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1.0 EXECUTIVE SUMMARY

This Periodic Review Report (PRR) is a required element of the approved Site Management Plan (SMP) (June 2021 revision) for the former Roblin Steel Site in Dunkirk, New York. The Site was remediated in accordance with State Assistance Contract (SAC) No. C302808, Site No. B00173-9, which was executed on December 12, 2005.

1.1 Site Summary

The former Roblin Steel Site (hereafter referred to as the "Site") occupies approximately 12 acres of a former industrial park in the City of Dunkirk, Chautauqua County, New York. Historically, the Site contained numerous buildings, the last of which was demolished as part of remedial activities conducted in 2010. The Site is located in an area zoned for industrial use. An environmental investigation conducted at the Site revealed that contamination associated with historical operations had impacted the Site, necessitating remedial activities. The remedial activities were completed pursuant to the Environmental Restoration Program component of Title 5 of the Clean Water/Clean Air Bond Act of 1996, which was administered by the New York State Department of Environmental Conservation (NYSDEC). Following completion of the remedial work described in the Remedial Action Work Plan (RAWP), some contamination was left in the subsurface of the Site, which is hereafter referred to as "remaining contamination." The remedial efforts also included development of a SMP to manage the remaining contamination at the Site in perpetuity or until extinguishment of the Environmental Easement that was placed on the Site, in accordance with Environmental Conservation Law (ECL) Article 71, Title 36.

1.2 Effectiveness of Remedial Program

Based on a recent inspection of the Site, the Site soil cover system is intact and functioning as designed on the Site. Additionally, with the exception of recent groundwater sampling results from MW-07R and EX-MW11R, the total volatile organic compound (VOC) concentrations at the Site have generally decreased over time.

1.3 Non-Compliance

No areas of non-compliance regarding the major elements of the SMP were identified during the preparation of this PRR.

1.4 Recommendations

Overall, the remedial program is viewed to be effective in achieving the remedial objectives for the Site. No changes to the SMP or the frequency of PRR submissions are recommended at this time with the exception of the proper decommissioning of MW-01. Continued monitoring and evaluation of the six Site wells (MW-02R, MW-04, EX-MW-12, MW-09R, MW-07R and EX-MW11R) that comprise the groundwater monitoring network at the Site is warranted.

2.0 SITE OVERVIEW

The Site is located at 320 South Roberts Road in the City of Dunkirk, New York. Figure 1 shows the location of the Site and Figure 2 is the Site plan that depicts the Site configuration and location of the groundwater monitoring well network. Progress Drive transects the eastern portion of the Site in a northeast-southwest direction. As a result, a portion of the Site is located east of the roadway and separated from the remainder of the Site. The Site is located in an area zoned for industrial use. A mixture of commercial, industrial and residential properties comprises the land use in the Site's vicinity. The Site is bounded to the north by an active CSX rail yard; to the east by active Norfolk Southern railroad tracks; to the south by the Former Alumax extrusions property; and to the west by a recently constructed freezer warehouse facility. Residential properties are located to the northwest and south of the Site beyond the adjoining properties. Lake Erie is situated approximately 3,400 feet to the northwest of the Site. Hyde Creek is located approximately 100 feet from the northeast corner of the Site.

2.1 Site Background

The Site occupies approximately 12 acres of a former industrial park. Historically, the Site contained a large complex of industrial buildings. The last remaining building was demolished as part of the 2010 remedial activities. The adjoining properties located in the former industrial park include the Former Alumax Extrusions property located to the south and the recently redeveloped Former Edgewood Warehouse property located to the west. In 1910, all three of these properties were developed as part of a larger industrial complex operated by the American Locomotive Company. The Site was later used for steel reclamation; however, operations ceased in 1987. Following this closure, salvage operations dismantled and partially demolished a majority of the Site structures throughout the late 1980s and early 1990s. Since that time, the Site has been vacant.

Following acquisition of the Site by Chautauqua County in December 2001, the site was investigated and remediated pursuant to the SAC executed between the County and NYSDEC. The remediation of the site was completed in September 2010 and rendered the site suitable for commercial or industrial use. Details pertaining to the remedial investigation and remedial construction program completed at the Site are summarized in Section 2.2 below.

In May 2013, the construction of a new public roadway through a portion of the site was initiated. The soil cover system established as part of the previous remediation of the Site was disturbed in conjunction with the construction of the new roadway in the Summer/Fall of 2014. Disturbance of the soil cover was completed in accordance with the provisions of the Excavation Work Plan (EWP) contained in the SMP. The cover system was restored by the end of 2014 in accordance with the Record of Decision (ROD) and the SMP upon completion of the new roadway.

2.2 Remedial Program Overview

As indicated above, a remedial investigation was conducted at the Site between 2002 and 2003. Such revealed that contamination associated with historical operations had impacted the Site, necessitating remedial activities. The NYSDEC issued a ROD in March 2005. The ROD identified seven impacted Media Groups (MGs) associated with the Site. The MGs included:

- Surface soil/fill debris piles;
- Subsurface soil/fill impacted with chlorinated VOCs;
- Subsurface soil/fill impacted with polyaromatic hydrocarbons and metals, and/or petroleum

nuisance characteristics;
- Drainage features and contents;
- Building components;
- Concrete and surface soil impacted with polychlorinated biphenyls (PCBs); and,
- Groundwater impacted with VOCs.

The RAWP prepared in February 2006 described the specific remedial activities that would be implemented at the Site to complete the remediation in accordance with the ROD. The remediation program included two distinct types of activities; those that were related to the removal or treatment of contaminated material (Phase I) and those that were directly related to the redevelopment and reuse of the Site (Phase II). The Phase I components included:

- Excavation and off-site disposal of surface soil/fill that exceeded the Site-Specific Cleanup Levels (SSCLs);
- Excavation and off-site disposal of subsurface soil/fill that exceeded SSCLs;
- Cleaning and filling of Site drainage features;
- Removal and disposal of PCB-containing electrical equipment;
- Removal and disposal of miscellaneous Site debris;
- Decommissioning of monitoring wells that were not part of the long-term monitoring program; and,
- Enhanced natural attenuation of Site groundwater.

The Phase II activities included the following:

- Removal of asbestos-containing materials (ACMs);
- Demolition of the building;
- Removal and crushing of the concrete slabs and top 12 inches of the foundations followed by the placement and grading of the crushed concrete on the Site;
- Placement of a demarcation layer (orange fencing) on top of the original Site surface covered by 12 inches of clean NYSDEC Division of Environmental Remediation (DER)-10 approved soil across the entirety of the Site; and
- Establishment of vegetative cover

Following completion of the remedial work described in the RAWP, some contamination may have been left in the subsurface of the Site. The remedial efforts also included development of the SMP (revised June 2021) to manage remaining contamination at the Site in perpetuity or until extinguishment of the Environmental Easement in accordance with ECL Article 71, Title 36.

3.0 EFFECTIVENESS OF THE REMEDIAL PROGRAM

All remedial actions described in the RAWP were completed during Phase I and Phase II of the remedial program. Remedial goals were accomplished through the removal and off-site disposal of contaminated media exceeding the SSCLs; removal of PCB equipment; enhanced natural attenuation of the Site groundwater; removal of ACMs; demolition of the Site building; and the installation of the Site-wide cover system to prevent exposure to remaining contamination in the subsurface.

As detailed below in Section 4.1.2, the Site Soil Cover System was inspected on December 2, 2021. Based on this inspection, the cover system is intact and functioning effectively throughout the Site.

The results of the December 2021 groundwater sampling event revealed that with the exception of recent groundwater sampling results from MW-07R and EX-MW11R, total VOC concentrations appear to be generally decreasing when compared to results from historical sampling events.

4.0 INSTITUTIONAL/ENGINEERING CONTROL (IC/EC) PLAN COMPLIANCE REPORT

4.1 IC/EC Requirements and Compliance

4.1.1 IC Requirements-Site Restrictions

In accordance with the SMP, the Site has a series of Institutional Controls (ICs) in the form of Site restrictions. Adherence to these ICs is required by the Environmental Easement. The Environmental Easement is described on the Boundary Survey of the Former Roblin Steel Site, included within Appendix 1. Site restrictions that apply are as follows:

- The Site may only be used for commercial or industrial use provided that the long-term ICs/Engineering Controls (ECs) included in the SMP are employed;
- The Site may not be used for a higher level of use, such as unrestricted, residential or restricted-residential use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities at the Site that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- The use of groundwater underlying the Site is restricted as a source of potable or process water, without necessary water quality treatment, as determined by the Chautauqua County Department of Health;
- The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be monitored and mitigated;
- The SMP will provide for the operation and maintenance of the components of the remedy;
- Vegetable gardens and farming on the Site are prohibited; and,
- The Site owner is required to provide an IC/EC certification, prepared and submitted by a professional engineer or environmental professional acceptable to the NYSDEC annually or for a period to be approved by the NYSDEC, which will certify that the ICs and ECs put in place are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP.

4.1.2 Engineering Control-Soil Cover System

Exposure to the remaining contamination in soil/fill at the Site is prevented by a soil cover system that was previously placed over the Site. This cover system is comprised of a minimum of 12 inches of clean soil overlaying a demarcation layer (orange plastic mesh material) over the entire surface of the Site. The EWP, which appears in Appendix A of the SMP, outlines the procedures that are required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed. The cover system is a

permanent control, and the quality and integrity of this system will be inspected at defined, regular intervals in perpetuity.

On December 2, 2021, Mr. Andrew Koons of LaBella Associates, D.P.C. (LaBella) conducted the annual Site inspection, which included traversing the Site on foot to observe the current conditions. The Cover Inspection Form is included herein as Appendix 2. Appendix 3 includes photographs taken during the Site inspection.

With the exception of the Progress Drive corridor that crosses the Site, the Site is generally vacant and undeveloped, with vegetated soil cover occurring at the ground surface. The soil cover at the time of the Site inspection was observed to be intact and functioning as intended. The floor and walls of the storm water ditches associated with Progress Drive were covered with a coarse, low-lying vegetation. No evidence of erosion or exposed synthetic erosion control fabric was observed within or adjacent to the ditches. Furthermore, the asphalt road surface was observed to be in good condition.

Eight geotechnical soil borings were advanced on the northwest portion of the Site in December 2020, in order to provide geotechnical data and recommendations for foundations associated with the potential expansion of the temperature-controlled warehouse located on the northwest adjacent property. Soils on top of the demarcation layer were staged next to each boring location and used to restore the cover at the completion of the drilling activities. Soil cuttings beneath the demarcation layer were drummed and properly transported and disposed of at American Recyclers Company of Tonawanda, New York by Environmental Service Group, Inc. of Tonawanda, NY. No visual or olfactory evidence of impact was observed within the soil cuttings. Slightly elevated photoionization detector readings were observed within B-3 (12-14 feet below the ground surface (ft bgs)), B-5 (13-14 ft bgs), B-6 (2-3 ft bgs) and B-7 (8-9 ft bgs) with the highest concentration in B-5 at 67 parts per million. Decontamination wash water did not exhibit indications of impact; therefore, such was allowed to infiltrate the ground surface and did not leave the limits of the Site, per the description in the December 7, 2020, Notification of Planned Intrusive Activities. Air monitoring was performed during the geotechnical activities. Air monitoring data at the downwind location did not identify exceedances of applicable regulatory guidance. Appendix 4 includes information associated with the geotechnical soil boring event including a figure depicting the locations of the advanced geotechnical soil borings, air monitoring data for the downwind location, and boring logs.

4.1.3 Engineering Control-Sub-Slab Vapor Venting System

No sub-slab vapor venting system (SSVVS) was installed as part of the Site remedy. However, any potential new structures constructed on the Site as part of Site redevelopment may be equipped with a SSVVS, if warranted. The design and sampling of the SSVVS will be performed in accordance with NYSDEC and New York State Department of Health (NYSDOH) guidance at the time the system is installed. The ultimate design of the SSVS will be dependent upon the size and configuration of any newly constructed buildings. Therefore, the specific components of the SSVVS have not been determined.

4.2 IC/EC Certification

The IC/EC Certification Form was completed in its entirety as all ICs/ECs are in place for the Site per the SMP. Appendix 5 includes the NYSDEC "Site Management Periodic Review Report Notice-Institutional and Engineering Controls Certification Form."

5.0 MONITORING PLAN COMPLIANCE REPORT

5.1 Requirements

Sections 3.0 and 5.0 of the SMP describe the measures for evaluating: (1) the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site; (2) the soil cover system; and (3) all affected Site Media.

Such Sections describe the methods to be used for:

- Sampling and analysis of all appropriate media (e.g., groundwater, indoor air, soil vapor, soils);
- Assessing compliance with applicable NYSDEC standards, criteria and guidance, particularly ambient groundwater standards;
- Monitoring the cover system;
- Assessing achievement of the remedial performance criteria;
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment; and,
- Preparing the necessary reports for the various monitoring activities.

To adequately address these issues, these Sections provide information on:

- Sampling locations, protocol, and frequency;
- Information on all designed monitoring systems (e.g., well logs);
- Analytical sampling program requirements;
- Reporting requirements;
- Quality Assurance/Quality Control (QA/QC) requirements;
- Inspection and maintenance requirements for monitoring wells;
- Monitoring well decommissioning procedures; and,
- Annual inspection and periodic certification.

5.2 Groundwater Monitoring

The groundwater monitoring program is to be conducted on an annual basis for 30 years. Groundwater samples are analyzed for VOCs appearing on the United States Environmental Protection Agency (USEPA) Target Compound List (TCL). Trends in contaminant levels in groundwater are evaluated to determine if the remedy continues to be effective in achieving remedial goals.

The groundwater monitoring network prescribed in the SMP consists of six monitoring wells, which include MW-02R, MW-04, MW-07R, MW-09R, EX-MW11R and EX-MW-12. As noted in the 2020 PRR and observed during the annual site inspection and monitoring event conducted on December 2, 2021, MW-01 was previously damaged during construction of the freezer warehouse on the northwest adjacent property and is no longer part of the groundwater monitoring network. While MW-12 was removed from the groundwater monitoring network following completion of the December 2020 groundwater sampling event, depth to water was collected from MW-12 during the December 2, 2021, groundwater sampling event in order to assist in determining overall groundwater flow patterns at the Site. The NYSDEC authorized the removal of MW-01 and MW12 from the groundwater monitoring network in the 2020 PRR response letter submitted by the NYSDEC

on February 2, 2021.

5.2.1 Sampling Procedure

The six groundwater monitoring wells were purged and sampled in general accordance with the procedures detailed in the SMP. This included three downgradient wells (MW-02R, MW-04, and EX-MW12) and the three wells located within areas of groundwater impacted with chlorinated VOCs (MW-09R, MW-07R and EX-MW11R). All monitoring well sampling activities were recorded on groundwater sampling logs, which are included as Appendix 6. Other observations (e.g., well integrity, etc.) were also noted on the well sampling logs. Prior to the initiation of groundwater sampling, groundwater levels were measured with an electronic water level indicator to determine the static water level below the ground surface elevation. The groundwater levels were used to determine the volume of standing water in the wells.

Well purging consisted of the evacuation of a minimum of three well volumes using NYSDEC-approved low-flow purging procedures via a Geotech Geopump II Pump. The samples were collected within three hours of completion of well purging using the low-flow method previously identified. Sample volumes were collected into clean sample bottles containing hydrochloric acid preservative provided by the laboratory. The groundwater samples were submitted for analysis of TCL VOCs via USEPA Method 8260.

5.2.2 Sample Preservation and Handling

Immediately after collection, all samples were placed in a cooler and chilled with ice. To ensure sample integrity, a Chain-of-Custody (COC) sample record was established and kept with the samples to document each person that handled the samples. The samples were transported to Test America Laboratories, Inc., a NYSDOH Environmental Laboratory Accreditation Program certified laboratory for analysis. The COC records established for the collected samples were maintained throughout the laboratory handling. Copies of the COC and complete analytical laboratory report are included in Appendix 7.

5.2.3 Quality Assurance/Quality Control Samples

In addition to field samples, QA/QC samples were collected to evaluate the effectiveness of the QA/QC procedures implemented during the field and laboratory activities associated with the project. The QA/QC samples included a blind field duplicate and a trip blank that were also analyzed for TCL VOCs. Well sampling at the Site and adjoining, former Alumax Extrusions Site were conducted in conjunction with one another on December 2, 2021, and the samples from both sites were submitted to the laboratory together in one batch and recorded on one COC. As such, the blind field duplicate collected from the former Roblin Steel Site (collected from EX-MW-11R) and trip blank associated with the samples from both sites were utilized to evaluate the effectiveness of the QA/QC procedures for the Site.

5.2.4 Analytical Results

The following section summarizes and discusses the analytical results generated during the aforementioned monitoring event. For discussion purposes, this data is compared with the Standards Criteria and Guidance Values applicable to groundwater: NYSDEC's June 1998 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations in the Technical and Operational Guidance Series (TOGS) 1.1.1.

Table 1 summarizes the groundwater pre- and post-remedial sampling results and compares the results to applicable water quality standards. Figure 2 depicts the locations of the monitoring wells while Figure 3 depicts apparent groundwater flow direction at the Site.

5.3 Comparisons with Remedial Objectives

As shown in Table 1, VOC concentrations were detected in all monitoring wells.

One VOC was detected in EX-MW-12; however, the identified constituent concentration is well below the maximum concentration of total VOCs detected at this location during the August 2010 sampling event.

One VOC was detected in MW-04; however, the identified constituent concentration is well below the maximum concentration of total VOCs detected at this location during the August 2013 sampling event.

Six VOCs were detected in MW-02R including three VOCs (cis-1, 2-dichloroethene, vinyl chloride and benzene) at concentrations above NYSDEC TOGS Standards. Total VOC concentrations in this well have slightly decreased since the December 2020 sampling event and are substantially lower than the maximum concentration detected at this location during the August 2010 sampling event.

Six VOCs were detected in MW-09R including three VOCs (benzene, carbon disulfide and vinyl chloride) at concentrations above NYSDEC TOGS Standards. Total VOC concentrations in this well have decreased since the December 2020 sampling event and are substantially lower than the maximum concentration detected at this location during the August 2010 sampling event.

Seven VOCs were detected in EX-MW11R including five VOCs (1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, trichloroethene and vinyl chloride) at concentrations above NYSDEC TOGS Standards. Total VOC concentrations in this well have increased since the December 2020 sampling event. These results are uncharacteristic at this location dating back to the December 2015 sampling event but are still substantially lower than the initial concentration detected at this location during the October 2002 sampling event.

Six VOCs were detected in MW-07R including five VOCs (1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, trichloroethene and vinyl chloride) at concentrations above NYSDEC TOGS Standards. Total VOC concentrations in this well have increased since the December 2020 sampling event and are at their highest to date at this location. These results are uncharacteristic at this location dating back to the 2002 sampling event.

A comparison of the results from EX-MW11R with the blind field duplicate indicates that the data coincide. Three VOCs were identified within the trip blank including Acetone, carbon disulfide and cis-1,2-dichloroethene. Acetone was not detected in any of the groundwater samples collected from the Site during this sampling event and is frequently encountered as a laboratory contaminant during the chemical analysis of groundwater samples. As such, the presence of acetone in the trip blank appears to be indicative of laboratory contamination. The source of the carbon disulfide and cis-1,2-

dichloroethene in the trip blank sample is not currently unknown. These detections could be indicative of cross contamination during sample preparation, handling or shipping of the trip blank sample, or during the groundwater sampling event. Multiple detections of these VOCs occurred in the samples collected from the Site and historical maximum concentrations of cis-1,2-dichloroethene were detected in MW-07R and EX-MW11R during this sampling event.

5.4 Monitoring Deficiencies

No monitoring deficiencies have been identified during the course of this period review.

5.5 Groundwater Monitoring Conclusions and Recommendations

Total VOC concentrations in MW-09R were detected at their lowest levels since sampling efforts began in October 2002 and have decreased slightly or remained consistent in MW-02R, MW-04 and EX-MW-12 since the December 2020 sampling event. Total VOC concentrations in EX-MW-11R and MW-07R have increased since the December 2020 sampling event. Substantial fluctuations in the concentrations of the identified constituents have occurred at these well locations in the past. Consequently, contaminant concentrations in these wells should be closely examined during future annual monitoring events to determine if an increasing trend materializes. The continued monitoring of contaminant levels at all six well locations (MW-02R, MW-04, EX-MW-12, MW-09R, MW-07R and EX-MW11R) is recommended.

It is also recommended that MW-01 be properly decommissioned due to its damaged condition and permanently removed from the monitoring program considering the absence of contraventions of the water quality standards in this well since monitoring began in 2002.

In consideration of the information above, no changes to the SMP or the frequency of PRR submissions are recommended at this time with the exception of the permanent removal of MW-01.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The Site Soil Cover System was inspected on December 2, 2021 and was observed to be intact and functioning as designed throughout the Site.

Total VOC concentrations in the majority of the Site wells have decreased over time. Continued evaluation of all six Site wells is warranted, and contaminant concentration in wells MW-07R and EX-MW-11R should be closely examined to determine if an increasing trend materializes. No changes to the Monitoring Plan or the SMP are recommended with the exception of the proper decommissioning of MW-01.

7.0 LIMITATIONS

The conclusions presented in this report are based on information gathered in accordance with generally acceptable professional consulting principles and practices. All conclusions reflect observable conditions existing at the time of the Site inspection. Information provided by outside sources (individuals, agencies, laboratories, etc.) as cited herein, was used in the assessment of the Site. The accuracy of the conclusions drawn from this assessment is, therefore, dependent upon the accuracy of information provided by these sources. Furthermore, LaBella is not responsible for the

impacts of any changes in environmental standards, practices, or regulations subsequent to the performance of services.

This report is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based upon the facts currently available with the limits of the existing data, scope of services, budget and schedule. To the extent that more definitive conclusions are desired by the Client than are warranted by the current available facts, it is specifically Labella's' intent that the conclusions and recommendations stated herein will be intended as guidance and not necessarily a firm course of action expect where explicitly stated as such. LaBella makes no warranties, expressed or implied including without limitation, warranties as to merchantability or fitness of a particular purpose. Furthermore, the information provided in this report is not construed as legal advice.

This assessment and report have been completed and prepared on behalf of and for the exclusive use of Chautauqua County. Any reliance on this report by a third party is at such party's sole risk.

8.0 REFERENCES

DER10/Technical Guidance for Site Investigation and Remediation, NYSDEC, May 3, 2010

Environmental Easement for 320 South Roberts Road, Chautauqua County Clerk, June 2011

Environmental Remediation of the Former Roblin Steel Site, NYSDEC Site No. B00173-9, Final Engineering Report, TVGA Consultants, November 2010

Environmental Restoration Record of Decision, Former Roblin Steel Site, Site Number B-00173, NYSDEC Division of Environmental Remediation, March 2005

Excavation Work Plan, Former Roblin Steel Site, TVGA Consultants, November 2010

Master Erosion Control Plan, Former Roblin Steel Site, TVGA Consultants, November 2010

Remedial Action Work Plan, TVGA Consultants, February 2006

Site Investigation/Remedial Alternatives Report, Former Roblin Steel Site, TVGA Consultants, December 2004

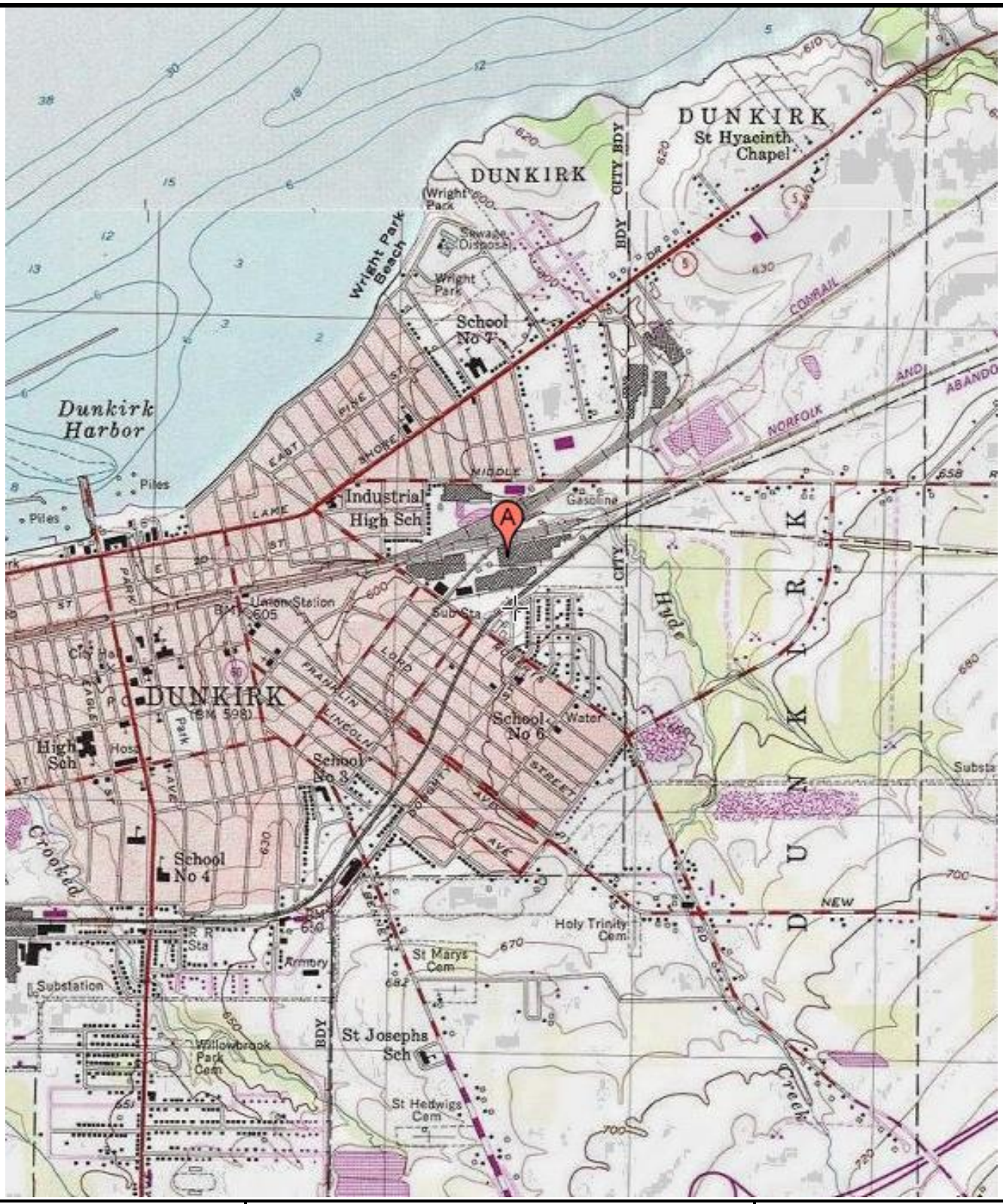
Site Management Plan, Former Roblin Steel Site, TVGA Consultants, November 2010 (updated by LaBella Associates, D.P.C., June 2021)

Revised Corrective Action Work Plan, Former Roblin Steel Site, KHEOPS Architecture, Engineering and Survey, DPC, April 3, 2015

Correction Action Report, Former Roblin Steel Site, LaBella Associates, D.P.C., March 2017

Periodic Review Report, Former Roblin Steel Site, LaBella Associates, D.P.C., January 2021

FIGURES



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Not To Scale

FIGURE 1
SITE LOCATION MAP

Former Roblin Steel Site
320 South Roberts Road
Dunkirk, New York

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Feet

1 inch = 142 feet

INTENDED TO PRINT AS: 11" X 17"

PROJECT:

FORMER ROBLIN STEEL SITE

DRAWING NAME:

SITE PLAN

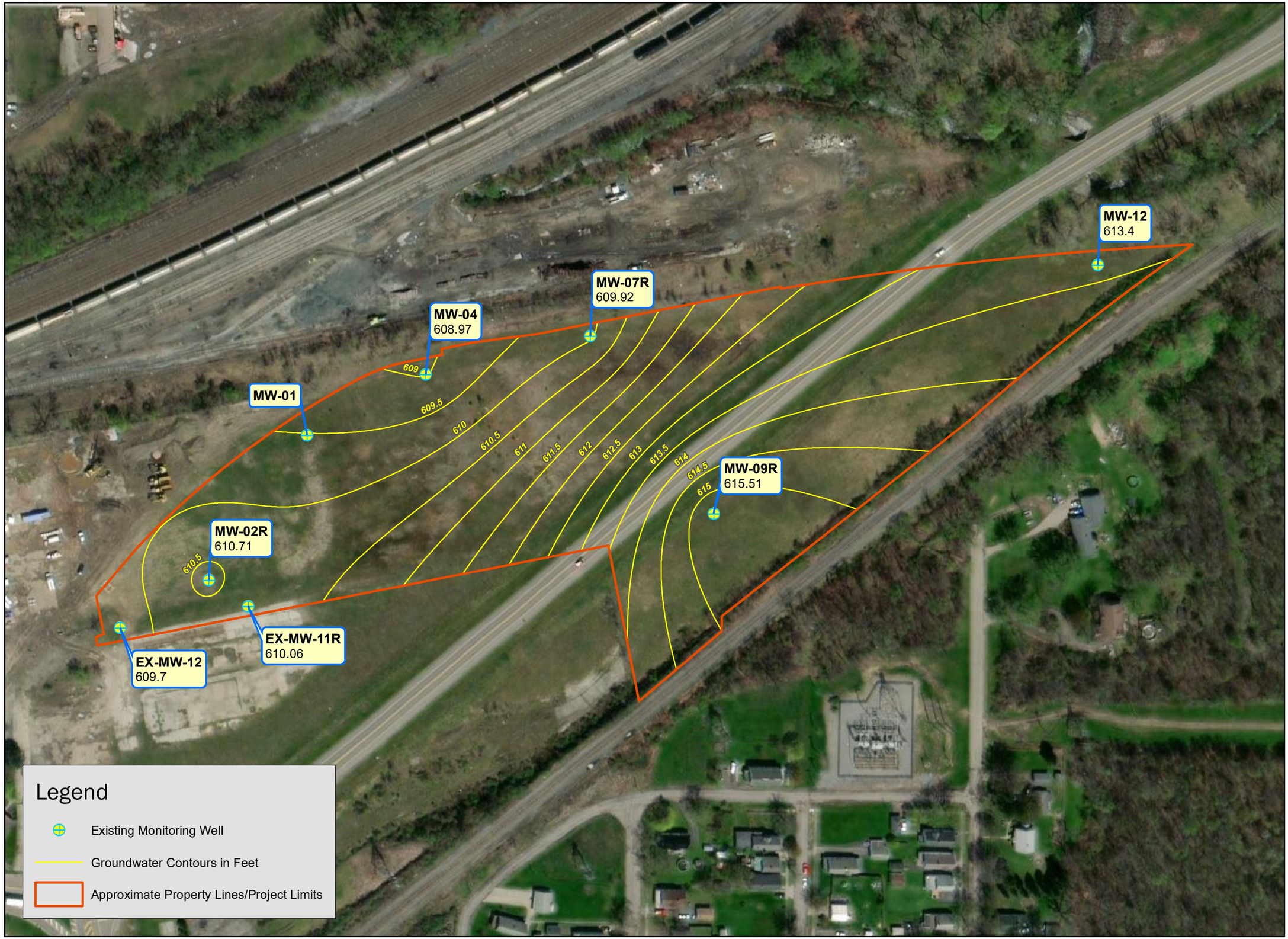
PROJECT #/DRAWING #/ DATE

2200014

FIGURE 2

1/6/2022

I:\Chautauqua County\2200014 - Dunkirk Brownfield Monitoring\Reports\Event_December 2021\Roblin December 2021\Fig 2 Roblin Site Plan.mxd



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1 inch = 142 feet

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PROJECT:

FORMER ROBLIN STEEL SITE

DRAWING NAME:

GROUNDWATER ELEVATIONS

PROJECT #/DRAWING #/ DATE

2200014

FIGURE 3

1/6/2022

I:\Chautauqua County\2200014 - Dunkirk Brownfield Monitoring\Reports\Event_December 2021\Roblin December 2021\Fig 3 GW Elevations.mxd

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TABLE

Table 1
Former Roblin Steel Site
Summary of Analytical Results
Groundwater Samples

PARAMETER	REGULATORY VALUE	MW-02R											
Collection Date		10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	12/12/18	12/5/19	12/3/20	12/2/21
Volatile Organic Compounds (µg/L)													
1,1-Dichloroethane	5												
1,1-Dichloroethene	5												
1,1-Dichloroethane	5												
cis-1,2-Dichloroethene	5	NA		21.3	10.1	6.27	18	11	13	20	21	10	5.1
trans-1,2-Dichloroethene	5	NA											
1,2-Dichloroethene (Total)	5	88		21.3									
1,2,4-Trimethylbenzene	5		10										
2-Butanone	50		33.5	129									
Acetone	50			21.7	12.3								
Benzene	1	18	7.92	37.3	18.2	22.7	3.5	3.5	5.6	3.2	1.2	1.6	5.4
Carbon Disulfide	60												
Chloroethane	5				6.2								
Cyclohexane	NL				32.8	43.3	6.3	5	7.9	3.6	3.4	4.2	4.3
cis-1,3-Dichloropropene	0.4												
Ethylbenzene	5		9.81	18.9	16.9	22.6	1.9						
Isopropylbenzene	5				2.53	3.12	0.61						1.2
Methyl Cyclohexane	NL				13.8	22.4	2.3	1.3	2	0.7	0.99	1.2	1.7
Methylene Chloride	5												
n-Propylbenzene	5		2.57										
Tetrachloroethene	5												
Toluene	5	24	7.19	101									
m,p-Xylene	5	NA	7.62	73.2	2.45	9.81							
o-Xylene	5	NA	2.61	37.2		2.10							
Total Xylenes	5	11	10.23	110.4									
Trichloroethene	5	32		3.31			0.25						
Vinyl chloride	2	31		5.34	12.5	9.13	26	42	27	49	37	27	6.1
Total VOCs	-	**204**	**91**	**580**	**128**	**141**	**59**	**63**	**56**	**77**	**64**	**44**	**23.8**

PARAMETER	MW-04											
Collection Date	10/11/02	2/10/09	8/10/10	8/21/13	7/15/14	12/15/15	12/14/16	2/2/18	12/12/18	12/5/19	12/3/20	12/2/21
Volatile Organic Compounds (µg/L)												
1,1-Dichloroethane												
1,1-Dichloroethene												
1,1-Dichloroethane												
cis-1,2-Dichloroethene	NA					2.6	1.2					1.3
trans-1,2-Dichloroethene	NA											
1,2-Dichloroethene (Total)												
1,2,4-Trimethylbenzene												
2-Butanone												
Acetone				43.8								
Benzene	6											
Carbon Disulfide												
Chloroethane												
Cyclohexane												
cis-1,3-Dichloropropene												
Ethylbenzene	2											
Isopropylbenzene												
Methyl Cyclohexane												
Methylene Chloride												
n-Propylbenzene												
Tetrachloroethene												
Toluene												
m,p-Xylene	NA											
o-Xylene	NA											
Total Xylenes	10											
Trichloroethene							1.91					
Vinyl chloride						0.49						
Total VOCs	**18**	**0**	**0**	**44**	**0**	**3**	**3**	**0**	**0**	**0**	**0**	**1.3**

PARAMETER	MW-07R											
Collection Date	10/11/02	5/4/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	12/12/18	12/5/19	12/3/20	12/2/21
Volatile Organic Compounds (µg/L)												
1,1-Dichloroethane												4
1,1-Dichloroethene	15											15
1,1-Dichloroethane												
cis-1,2-Dichloroethene	NA		904	128	584	17	5.9	190	3.2	16	23	3,600
trans-1,2-Dichloroethene	NA											14
1,2-Dichloroethene (Total)	1,500		904									
1,2,4-Trimethylbenzene												
2-Butanone												
Acetone												
Benzene	10	65	14			0.34						
Carbon Disulfide												
Chloroethane												
Cyclohexane						0.72						
cis-1,3-Dichloropropene		1,500										
Ethylbenzene	4											
Isopropylbenzene												
Methyl Cyclohexane		99				0.76						
Methylene Chloride												
n-Propylbenzene												
Tetrachloroethene		160				0.25						
Toluene	12	69	29.7									
m,p-Xylene	NA	67	33.3									
o-Xylene	NA											
Total Xylenes	23	67	33.3									
Trichloroethene	56		49.2		55.9		2	3.7				120
Vinyl chloride	330	770	402	56.1	205	6.2	3.7	75	3.6	19	12	740
Total VOCs	**1,950**	**2,797**	**2,370**	**184**	**845**	**25**	**12**	**194**	**6.8**	**35**	**35**	**4493**

PARAMETER	MW-09R											
Collection Date	10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	12/12/18	12/5/19	12/3/20	12/2/21
Volatile Organic Compounds (µg/L)												
1,1-Dichloroethane												
1,1-Dichloroethene	3	2.02				2.3		1.2				
1,1-Dichloroethane												
cis-1,2-Dichloroethene	NA	210	277	217	55.7	1,200	500	410	290	180	180	4.3
trans-1,2-Dichloroethene	NA	4.48	17.3			2.9		4.2				
1,2-Dichloroethene (Total)	380	214	294									
1,2,4-Trimethylbenzene		12.9										
2-Butanone			305									
Acetone			569									
Benzene	35	11.5	445	87.7	46.3	0.97		2.2		3.5	5.5	13
Carbon Disulfide												0.57 J
Chloroethane												
Cyclohexane				208	155	15		9.4		9.3	8.5	28
cis-1,3-Dichloropropene												
Ethylbenzene	12	5.66	69.6	33.7	17.3	0.23						
Isopropylbenzene						0.28						
Methyl Cyclohexane				121	101	13		7.5		7.3	7	9.4
Methylene Chloride							4.8					
n-Propylbenzene												
Tetrachloroethene						4.5						
Toluene	74	23.3	581									
m,p-Xylene	NA	20.5	239									
o-Xylene	NA	11.5	128			0.23						
Total Xylenes	75	32	367									
Trichloroethene	450	135	585				230	39			3.3	
Vinyl chloride	34	33		991	287	310		93	23	110	99	17
Total VOCs	**1,063**	**716**	**3,877**	**1,658**	**662**	**1,549**	**735**	**567**	**313**	**310**	**303**	**72**

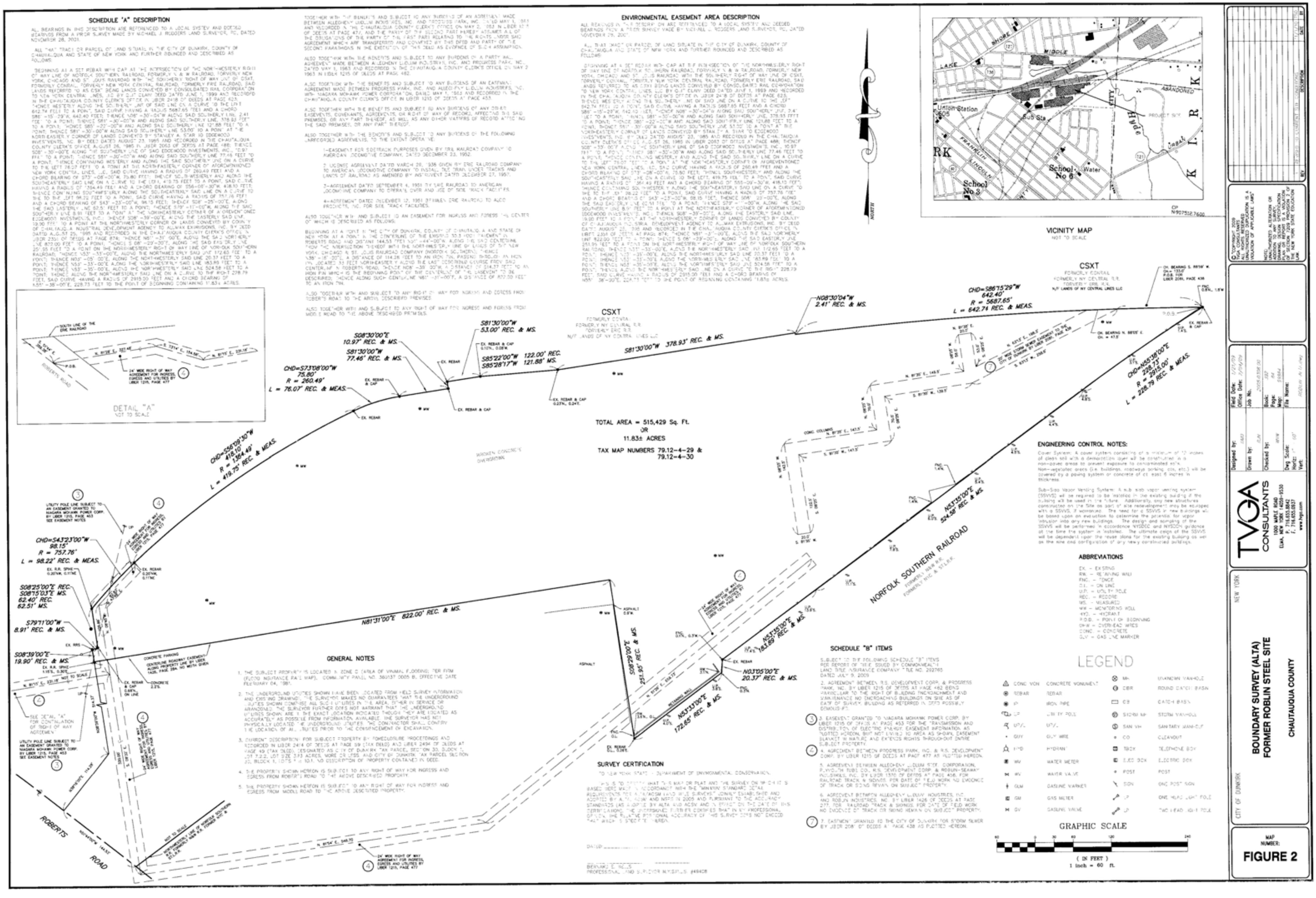
PARAMETER	EX-MW-11R											
Collection Date	10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	12/12/18	12/5/19	12/3/20	12/2/21
Volatile Organic Compounds (µg/L)												
1,1-Dichloroethane												
1,1-Dichloroethene						4.6	11	5.8				63
1,1-Dichloroethane												
cis-1,2-Dichloroethene	NA	354	5,320	1,950	5,400	990	1,000	1,500	960	950	1,400	7,400
trans-1,2-Dichloroethene	NA					3.3		4.4				37
1,2-Dichloroethene (Total)	41,000	354	5,320									
1,2,4-Trimethylbenzene												
2-Butanone												
Acetone												
Benzene						2.5		3.7				
Carbon Disulfide												
Chloroethane												
Cyclohexane						16	24	22	19	22	9.6	37
cis-1,3-Dichloropropene												
Ethylbenzene						2.4		1.6				
Isopropylbenzene						0.68						
Methyl Cyclohexane						15	20	23	7.3	11	8	35
Methylene Chloride							12					
n-Propylbenzene												
Tetrachloroethene												
Toluene						1.7		0.81				
m,p-Xylene	NA					0.73						
o-Xylene	NA					4.9						
Total Xylenes								2.6				
Trichloroethene	150,000	168	4,630		4,510	36	91		10			1,400 F1
Vinyl chloride	9,800	27	638	881	1,110	520	360	950	510	330	430	1,300 F1
Total VOCs	**200,800**	**903**	**15,908**	**2,831**	**11,020**	**1,598**	**1,518**	**2,514**	**1,506**	**1,313**	**1,848**	**7,572**

PARAMETER	REGULATORY VALUE	EX-MW-12											
Collection Date		10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	12/12/18	12/5/19	12/3/20	12/2/21
Volatile Organic Compounds (µg/L)													
cis-1,2-Dichloroethene	5	NA		7.6			0.73						
trans-1,2-Dichloroethene	5	NA											
1,2-Dichloroethene (Total)	5	150		7.6									
2-Butanone	50			31.3									
2-Hexanone	50			5.23									
Acetone	50			73.8									
Benzene	1	1		24.0	1.9	2.14	0.47						
Carbon Disulfide	60												1.1
Ethylbenzene	5	1		18.5									
Toluene	5			48.7									
m,p-Xylene	5	NA		74.7									
o-Xylene	5	NA		40.4									
Total Xylenes	5			115.1									
Trichloroethene	5			8.96									
Vinyl chloride	2	200		27.2									
Total VOCs	-	**352**	**0**	**483**	**1.9**	**2.14**	**1**	**0**	**0**	**0**	**0**	**0**	**1.1**

Notes:
Regulatory values are derived from NYS Ambient Water Quality Standards TOGS 1.1.1 (Source of Drinking Water, groundwater).
(-) = No regulatory value is associated with this compound.
Shaded values represent exceedances of the regulatory value.
µg/L = micrograms per Liter (equivalent to parts per billion (ppb)).
Only compounds with one or more detections are shown.
J = Reported concentration is an estimate.
F1 = MS and/or MSD recovery exceeds control limits.
Blank spaces indicate that the analyte was not detected.
"NL" = Regulatory value not listed for parameter
"NA" = parameter was not analyzed

APPENDIX 1

Boundary Survey-Former Roblin Steel Site


SCHEDULE "A" DESCRIPTION
ENVIRONMENTAL EASEMENT AREA DESCRIPTION
DETAIL "A"
NOT TO SCALE
VICINITY MAP
NOT TO SCALE
CSXT
NORFOLK SOUTHERN RAILROAD
TOTAL AREA = 515,429 Sq. Ft.
OR
11.83± ACRES
TAX MAP NUMBERS 79.12-4-29 &
79.12-4-30
N81°31'00"E 822.00' REC. & MS.
S81°30'00"W 378.93' REC. & MS.
N08°30'04"W
2.41' REC. & MS.
CHD=S86°15'29"W
642.40'
R = 5687.65'
L = 642.74 REC. & MEAS.
CHD=N55°38'00"E
228.73'
R = 2915.00'
L = 228.79 REC. & MEAS.
N53°35'00"E
524.58' REC. & MS.
N53°35'00"E
183.69' REC. & MS.
N03°05'00"E
20.37' REC. & MS.
N53°33'00"E
172.65' REC. & MS.
S08°29'00"E
251.95' REC. & MS.
S81°30'00"W
53.00' REC. & MS.
S85°22'00"W 122.00' REC.
S85°28'17"W 121.88' MS.
S08°30'00"E
10.97' REC. & MS.
S81°30'00"W
77.46' REC. & MS.
CHD=S73°08'00"W
75.80'
R = 260.49'
L = 76.07' REC. & MEAS.
CHD=S56°09'30"W
418.10'
R = 1364.49'
L = 419.75' REC. & MEAS.
CHD=S43°23'00"W
98.15'
R = 757.76'
L = 98.22' REC. & MEAS.
S08°25'00"E REC.
S08°15'03"E MS.
62.40' REC.
62.51' MS.
S79°11'00"W
8.91' REC. & MS.
S08°39'00"E
19.90' REC. & MS.
ROBERTS ROAD
GENERAL NOTES
SURVEY CERTIFICATION
SCHEDULE "B" ITEMS
ENGINEERING CONTROL NOTES:
ABBREVIATIONS
LEGEND
GRAPHIC SCALE
(IN FEET)
1 inch = 60 ft.
TVGA CONSULTANTS
1000 MAPLE ROAD
ELMA, NEW YORK 14059-9530
CITY OF DUNKIRK
NEW YORK
BOUNDARY SURVEY (ALTA)
FORMER ROBLIN STEEL SITE
CHAUTAUQUA COUNTY
MAP NUMBER:
FIGURE 2

APPENDIX 2

Cover Inspection Form

COVER INSPECTION FORM
Former Roblin Steel Site

Property Name: Former Roblin Steel Site **Inspection Date**: 12/2/21

Property Address: 320 South Roberts Road

City: Dunkirk **State**: NY **Zip Code**: 14048

Property ID: (Tax Assessment Map)

Section: 79.12 **Block**: 4 **Lot(s)**: 29 and 30

Total Acreage: ~12 acres

Weather (during inspection): Temperature: 45° Conditions: windy + cloudy

SIGNATURE

The findings of this inspection were discussed with appropriate personnel, corrective actions were identified and implementation was mutually agreed upon:

Inspector: Andrew Koons Date: 12/2/21

Next Scheduled Inspection Date: December 2022

SECURITY AND ACCESS

	Yes	No
1. Access controlled by perimeter fencing?	-----	X
Are there sections of the fence material damaged or missing?	-----	-----
Are the fence or gate post foundations structurally sound?	-----	-----
2. "No Trespass" signs posted in appropriate languages?	-----	X
Are the signs securely attached to the fencing or posts?	-----	-----
Are there sufficient signs; are the signs adequately spaced around the perimeter of the property?	-----	-----
3. Is there evidence of trespassing?	-----	X
Is there evidence of illegal dumping?	-----	-----

COVER & VEGETATION

4. Final cover in acceptable condition?	X	-----
Is there evidence of sloughing, erosion, ponding or settlement?	-----	-----
Is there evidence of unintended traffic; rutting?	-----	-----
Is there evidence of distressed vegetation/turf?	-----	-----

	Yes	No
5. Final cover sufficiently covers soil/fill material?	X	----
Are there cracks visible in the soil or pavement?	----	----
Is there evidence of erosion in the stormwater channels or swales?	----	----
Is there damage to the synthetic erosion control fabric in the channels or swales?	----	X

ACTIVITY ON SITE

6. Any activity on site that mechanically disturbed soil cover?	----	X

ADDITIONAL FACILITY INFORMATION

Development on or near the site? (Specify size and type: e.g., residential, 40 acres, well and septic)

COMMENTS

Item #

ATTACHMENTS

1. Site Sketch
2. Photographs
3. Laboratory Report (s)

APPENDIX 3

Photographs

View of Site cover

View of north roadside ditch

View of south roadside ditch

View of EX-MW-12

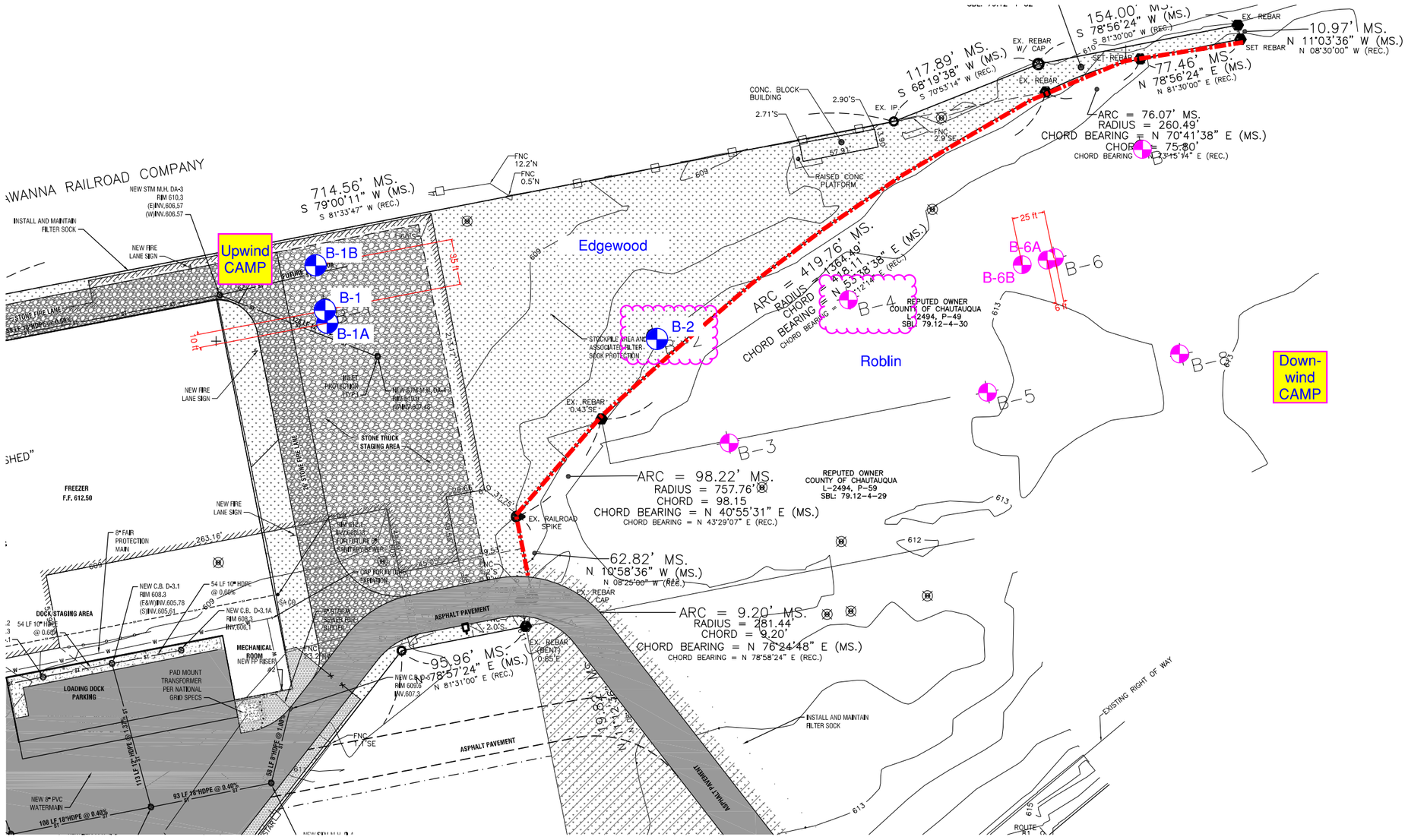
View of MW-09R

View of damaged MW-01

APPENDIX 4

Geotech Investigation Documents

5-ft rock core



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TEST BORING LOG

Boring No.	**B-8**
Project No.:	2210339
Start Date:	12/18/20
Finish Date:	12/18/20
Inspector:	D. Keller
Surface Elev.:	see survey

Project Name:	320 Roberts Road Freezer/Brownfield Redevelopment Services
Location:	Dunkirk, New York
Client:	The Krog Group
Drilling Firm:	LaBella Environmental, LLC
Driller:	Austin Skinner

Key:
Geologic Strata Change
Gradation Change Within Strata

Drill Rig:	Diedrich D50	**Rock Core:**	None
Casing:	2-1/4 HSA	**Other:**	Roblin Site
Sampler:	1-3/8" ID S.S.		Hand excavated to 2.0 feet.
Undisturbed:	None		No demarcation layer found.
Hammer:	140# Automatic, 30" drop		

Coordinates: **N:** see survey **E:** see survey

Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	VISUAL-MANUAL MATERIAL DESCRIPTION (trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);	Depth of Change	PID (ppm)	COMMENTS (e.g., N-value, recovery, moisture, core run, % recovered, RQD)
1				Brown, coarse to fine SAND, some Silt, trace coarse to fine Gravel.		0	
				-CLEAN FILL-	0.8'		
2				Brown to dark brown, coarse to fine SAND, some clayey Silt,			
				little coarse to fine Gravel, with concrete fragments.		<1	
			26	**-FILL-**	2.5'		**S-1** 2.0' - 4.0' **N=12**
3	S-1		6	Mottled gray-brown and yellow-brown, silty CLAY, little fine Sand,		0	REC = 17" M/C: Moist
			6	trace organic fibers.			Consistency: Stiff
4			8	**-ALLUVIAL DEPOSITS-**			
			3	Mottled gray-brown and yellow-brown, silty CLAY, little fine Sand,		<1	**S-2** 4.0' - 6.0' **N=11**
5	S-2		4	trace organic fibers.			REC = 3" M/C: Moist
			7				Consistency: Stiff
6			8				
			8	Mottled gray-brown and yellow-brown, silty CLAY, little fine Sand,			**S-3** 6.0' - 8.0' **N=28**
7	S-3		13	little coarse gravel (shale), trace organic fibers.			REC = 24" M/C: Moist
			15				Consistency: Very Stiff
8			14				
			13		8.4'		**S-4** 8.0' - 10.0' **N=39**
9	S-4		19	Gray-brown, coarse to fine SAND and clayey Silt, some coarse		0	REC = 24" M/C: Dry to Moist
			20	to fine Gravel.			Consistency: Dense
10			17	**-GLACIAL TILL-**			
11							
12							
13							
	S-5		20	Sample S-5 similar to S-4.	13.5'	0	**S-5** 13.0' - 13.5' **N>50**
14			50/0"	Probable weathered/fractured Shale.			REC = 3" M/C: Moist
							Consistency: Very Dense
15				Bottom Of Exploration 14.0 feet			
16				Auger refusal on probable bedrock.			
17				Borehole grouted to approximately 1-ft, then backfilled with clean fill.			
18							
19							
20							
21							
22							* there are several monitoring wells
23							on the site that can be referenced for accurate water level data.

Groundwater/Caving *	Date (mm/dd/yy)	Time (24 hr clock)	Depth in feet to: Bot of Casing	Bot of Hole	Water
While Drilling:	NR	10:15	13.0	13.5	none *
While Drilling or Before Rock Coring:	NR	NR	NR	NR	NR
Before Casing Removed:	NR	NR	NR	NR	NR
After Casing Removed:	NR	NR	Removed	NR	NR

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TEST BORING LOG

Boring No.	**B-7**
Project No.:	2210339
Start Date:	12/18/20
Finish Date:	12/18/20
Inspector:	D. Keller
Surface Elev.:	see survey

Project Name:	320 Roberts Road Freezer/Brownfield Redevelopment Services
Location:	Dunkirk, New York
Client:	The Krog Group
Drilling Firm:	LaBella Environmental, LLC
Driller:	Austin Skinner

Key:
——————— Geologic Strata Change
— · — · — · — · — Gradation Change Within Strata

Drill Rig:	Diedrich D50	**Rock Core:**	None
Casing:	2-1/4 HSA	**Other:**	Roblin Site
Sampler:	1-3/8" ID S.S.		Hand excavated to 2.0 feet.
Undisturbed:	None		No demarcation layer found.
Hammer:	140# Automatic, 30" drop		

Coordinates: **N:** see survey **E:** see survey

Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	VISUAL-MANUAL MATERIAL DESCRIPTION (trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);	Depth of Change	PID (ppm)	COMMENTS (e.g., N-value, recovery, moisture, core run, % recovered, RQD)
1				Brown, coarse to fine SAND, some Silt, trace coarse to fine Gravel.		0	
				-CLEAN FILL-	0.8'		
2				Brown to dark brown, coarse to fine SAND, some clayey Silt,			
			3	little coarse to fine Gravel, with gravel layer from 2.7 to 2.9-feet.		0	**S-1** 2.0' - 4.0' **N=11**
3	S-1		6	**-FILL-**	2.9'		REC = 20" M/C: Moist
			5				Consistency: Medium Dense
4			5	Mixed light brown and gray brown and dark brown, silty CLAY, some coarse			
			2	to fine Sand, trace medium to fine Gravel.		0	**S-2** 4.0' - 6.0' **N=6**
5	S-2		3	**-FILL (reworked alluvial deposits)-**			REC = 22" M/C: Moist
			3		5.6'		Consistency: Loose
6			3	Gray, coarse to fine Gravel. **-FILL-**	5.8'		
			4	Mottled gray-brown and yellow-brown, silty CLAY, little fine Sand,		0	**S-3** 6.0' - 8.0' **N=10**
7	S-3		4	trace organic fibers.			REC = 20" M/C: Moist
			6	**-ALLUVIAL DEPOSITS-**			Consistency: Stiff
8			7				
			2	S-4 similar to S-3, except with little coarse Gravel (shale).		8	**S-4** 8.0' - 10.0' **N=5**
9	S-4		2				REC = 24" M/C: Moist
			3				Consistency: Medium Stiff
10			4				
11							
12							
					12.5'		
13							
	S-5		50/2"	Gray-brown, coarse to fine SAND and clayey Silt, some coarse		0	**S-5** 13.0' - 13.2' **N>50**
14				to fine Gravel.			REC = 2" M/C: Dy
				-GLACIAL TILL-			Consistency: Very Dense
15							
16				Bottom Of Exploration 14.3 feet			
17				Auger refusal on probable bedrock.			
18				Borehole grouted to approximately 1-ft, then backfilled with clean fill.			
19							
20							
21							
22							* there are several monitoring wells
23							on the site that can be referenced for accurate water level data.

Groundwater/Caving *	Date (mm/dd/yy)	Time (24 hr clock)	Depth in feet to: Bot of Casing	Bot of Hole	Water
While Drilling:	NR	NR	NR	NR	NR
While Drilling or Before Rock Coring:	NR	NR	NR	NR	NR
Before Casing Removed:	NR	NR	NR	NR	NR
After Casing Removed:	NR	NR	Removed	NR	NR

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TEST BORING LOG

Boring No.	**B-6B**
Project No.:	2210339
Start Date:	12/18/20
Finish Date:	12/18/20
Inspector:	D. Keller
Surface Elev.:	see survey

Project Name:	320 Roberts Road Freezer/Brownfield Redevelopment Services		
Location:	Dunkirk, New York		
Client:	The Krog Group		
Drilling Firm:	LaBella Environmental, LLC	**Driller:**	Austin Skinner

Key:
Geologic Strata Change
Gradation Change Within Strata

Drill Rig:	Diedrich D50	**Rock Core:**	None
Casing:	4-1/4 HSA	**Other:**	Roblin Site (a) 25 feet west of B-6 (see survey for location of B-6)
Sampler:	1-3/8" ID S.S.		
Undisturbed:	None		
Hammer:	140# Automatic, 30" drop		

Coordinates: **N:** (a) **E:** (a)

Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	VISUAL-MANUAL MATERIAL DESCRIPTION trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);	Depth of Change	PID (ppm)	COMMENTS (e.g., N-value, recovery, moisture, core run, % recovered, RQD)
1				Advanced augers to 3.5-ft, no sampling. See Test Boring Log for B-6 for details.			
2							
3							
4				Bottom Of Exploration 3.5 feet Auger refusual on probable obstruction. see also Test Boring Logs for B-6 and B-6A Borehole backfilled with cuttings.			
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							* there are several monitoring wells on the site that can be referenced for accurate water level data.
23							

Groundwater/Caving *	Date (mm/dd/yy)	Time (24 hr clock)	Depth in feet to: Bot of Casing	Bot of Hole	Water
While Drilling:	NR	NR	NR	NR	NR
While Drilling or Before Rock Coring:	NR	NR	NR	NR	NR
Before Casing Removed:	NR	NR	NR	NR	NR
After Casing Removed:	NR	NR	Removed	NR	NR

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TEST BORING LOG

Boring No.	**B-6A**
Project No.:	2210339
Start Date:	12/18/20
Finish Date:	12/18/20
Inspector:	D. Keller
Surface Elev.:	see survey

Project Name:	320 Roberts Road Freezer/Brownfield Redevelopment Services		
Location:	Dunkirk, New York		
Client:	The Krog Group		
Drilling Firm:	LaBella Environmental, LLC	**Driller:**	Austin Skinner

Key:
Geologic Strata Change
Gradation Change Within Strata

Drill Rig:	Diedrich D50	**Rock Core:**	None
Casing:	4-1/4 HSA	**Other:**	Roblin Site (a) 6 feet west of B-6 (see survey for location of B-6)
Sampler:	1-3/8" ID S.S.		
Undisturbed:	None		
Hammer:	140# Automatic, 30" drop		

Coordinates: **N:** (a) **E:** (a)

Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	VISUAL-MANUAL MATERIAL DESCRIPTION trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);	Depth of Change	PID (ppm)	COMMENTS (e.g., N-value, recovery, moisture, core run, % recovered, RQD)
1				Advanced augers to 5-ft, no sampling. See Test Boring Log for B-6 for details.			
2							
3							
4							
5							
6				Bottom Of Exploration 5.0 feet			
7				Auger refusual on probable obstruction.			
8				see also Test Boring Logs for B-6 and B-6B			
9				Borehole backfilled with cuttings.			
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							* there are several monitoring wells on the site that can be referenced for accurate water level data.
23							

Groundwater/Caving *	Date (mm/dd/yy)	Time (24 hr clock)	Depth in feet to: Bot of Casing	Bot of Hole	Water
While Drilling:	NR	NR	NR	NR	NR
While Drilling or Before Rock Coring:	NR	NR	NR	NR	NR
Before Casing Removed:	NR	NR	NR	NR	NR
After Casing Removed:	NR	NR	Removed	NR	NR

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TEST BORING LOG

Boring No.	**B-6**
Project No.:	2210339
Start Date:	12/18/20
Finish Date:	12/18/20
Inspector:	D. Keller
Surface Elev.:	see survey

Project Name:	320 Roberts Road Freezer/Brownfield Redevelopment Services		
Location:	Dunkirk, New York		
Client:	The Krog Group		
Drilling Firm:	LaBella Environmental, LLC	**Driller:**	Austin Skinner

Key:
Geologic Strata Change
Gradation Change Within Strata

Drill Rig:	Diedrich D50	**Rock Core:**	None
Casing:	2-1/4 HSA	**Other:**	Roblin Site
Sampler:	1-3/8" ID S.S.		Hand excavated to 2.0 feet.
Undisturbed:	None		No demarcation layer found.
Hammer:	140# Automatic, 30" drop		

Coordinates: **N:** see survey **E:** see survey

Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	VISUAL-MANUAL MATERIAL DESCRIPTION (trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);)	Depth of Change	PID (ppm)	COMMENTS (e.g., N-value, recovery, moisture, core run, % recovered, RQD)
1				Brown, coarse to fine SAND, some Silt, trace coarse to fine Gravel.		0	
				-CLEAN FILL-	0.8'		
2							
3	S-1		5 7	Brown, coarse to fine SAND and coarse to fine Gravel.		26	**S-1** 2.0' - 4.0' **N=15**
				-FILL (composed predominantly of crushed shale)			REC = 14" M/C: Moist
4			8 5				Consistency: Medium Dense
5	S-2		20 50/0"	Sample S-2 similar to S-1.		<1	**S-2** 4.0' - 4.5' **N>50** REC = 5" M/C: Moist Consistency: Very Dense
6				Bottom Of Exploration 5.0 feet			
7				Auger refusual on probable obstruction.			Broke teeth of of auger.
8				see also Test Boring Logs for B-6 and B-6B			
9				Borehole backfilled with cuttings.			
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							* there are several monitoring wells site that can be referenced for accurate water level data.
23							

Groundwater/Caving *	Date (mm/dd/yy)	Time (24 hr clock)	Depth in feet to: Bot of Casing	Bot of Hole	Water
While Drilling:	NR	NR	NR	NR	NR
While Drilling or Before Rock Coring:	NR	NR	NR	NR	NR
Before Casing Removed:	NR	NR	NR	NR	NR
After Casing Removed:	NR	NR	Removed	NR	NR

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TEST BORING LOG

Boring No.	**B-5**
Project No.:	2210339
Start Date:	12/18/20
Finish Date:	12/18/20
Inspector:	D. Keller
Surface Elev.:	see survey

Project Name:	320 Roberts Road Freezer/Brownfield Redevelopment Services
Location:	Dunkirk, New York
Client:	The Krog Group
Drilling Firm:	LaBella Environmental, LLC
Driller:	Austin Skinner

Key:
Geologic Strata Change
Gradation Change Within Strata

Drill Rig:	Diedrich D50	**Rock Core:**	None
Casing:	4-1/4 HSA	**Other:**	Roblin Site
Sampler:	1-3/8" ID S.S.		Hand excavated to 2.0 feet.
Undisturbed:	None		No demarcation layer found.
Hammer:	140# Automatic, 30" drop		

Coordinates: **N:** see survey **E:** see survey

Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	VISUAL-MANUAL MATERIAL DESCRIPTION (trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);)	Depth of Change	PID (ppm)	COMMENTS (e.g., N-value, recovery, moisture, core run, % recovered, RQD)
1				Brown, coarse to fine SAND, some Silt, trace coarse to fine Gravel.		0	
				-CLEAN FILL-	0.8'		
2							
3	S-1		3	Brown, coarse to fine SAND and silty Clay, trace fine Gravel,		<1	**S-1** 2.0' - 4.0' **N=5**
			3	with cinders.			REC = 17" M/C: Moist
4			2	**-FILL-**			Consistency: Loose
			2				
5	S-2		2		4.4'		**S-2** 4.0' - 6.0' **N=7**
			3	Mottled gray-brown and yellow-brown, silty CLAY, little fine Sand,		<1	REC = 24" M/C: Moist
6			4	trace organic fibers.			Consistency: Medium Stiff
			7	**-ALLUVIAL DEPOSITS-**			
7	S-3		6	Mottled gray-brown and yellow-brown, silty CLAY, little fine Sand,		1	**S-3** 6.0' - 8.0' **N=15**
			7	trace medium to fine Gravel, trace organic fibers.			REC = 20" M/C: Moist
8			8				Consistency: Stiff
			10				
9	S-4		2	S-4 similar to S-3, except with frequent sand seams.		<1	**S-4** 8.0' - 10.0' **N=9**
			4				REC = 24" M/C: Moist
10			5				Consistency: Stiff
			11				
11							
12							
13							
	S-5		12		13.3'		**S-5** 13.0' - 13.7' **N>50**
14			50/2"	Gray-brown, coarse to fine SAND and clayey Silt, some coarse		67	REC = 8" M/C: Dry to Moist
15				to fine Gravel.			Consistency: Very Dense
				-GLACIAL TILL-			
16				Bottom Of Exploration 14.2 feet			
17				Auger refusal on probable bedrock.			
18				Borehole grouted to approximately 1-ft, then backfilled with clean fill.			
19							
20							
21							
22							* there are several monitoring wells
23							on the site that can be referenced for accurate water level data.

Groundwater/Caving *	Date (mm/dd/yy)	Time (24 hr clock)	Depth in feet to: Bot of Casing	Bot of Hole	Water
While Drilling:	NR	NR	NR	NR	NR
While Drilling or Before Rock Coring:	NR	NR	NR	NR	NR
Before Casing Removed:	NR	NR	NR	NR	NR
After Casing Removed:	NR	NR	Removed	NR	NR

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TEST BORING LOG

Boring No.	**B-4**
Project No.:	2210339
Start Date:	12/17/20
Finish Date:	12/17/20
Inspector:	D. Keller
Surface Elev.:	see survey

Project Name:	320 Roberts Road Freezer/Brownfield Redevelopment Services
Location:	Dunkirk, New York
Client:	The Krog Group
Drilling Firm:	LaBella Environmental, LLC
Driller:	Chris Stone

Key:
Geologic Strata Change
Gradation Change Within Strata

Drill Rig:	Diedrich D50
Casing:	4-1/4 HSA
Sampler:	1-3/8" ID S.S.
Undisturbed:	None
Hammer:	140# Automatic, 30" drop
Rock Core:	NQ
Other:	Roblin Site Hand excavated to 0.8 feet. No demarcation layer found.

Coordinates: **N:** see survey **E:** see survey

Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	VISUAL-MANUAL MATERIAL DESCRIPTION trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);	Depth of Change	PID (ppm)	COMMENTS (e.g., N-value, recovery, moisture, core run, % recovered, RQD)
1				Brown, coarse to fine SAND, some Silt, trace coarse to fine Gravel.			
			10	**-CLEAN FILL-**	0.8'	0	**S-1** 0.8' - 2.0' **N=44**
2	S-1		36	Brown to dark brown, coarse to fine SAND, some clayey Silt, with concrete particles.			REC = 9" M/C: Moist
			8	**-FILL-**			Consistency: Dense
3	S-2		7	Brown to dark brown, coarse to fine SAND, some clayey Silt,		0	**S-2** 2.0' - 4.0' **N=13**
			7	little coarse to fine Gravel, with glass particles.			REC = 20" M/C: Moist
4			6				Consistency: Medium Dense
			5				
5	S-3		5	Brown to dark brown, coarse to fine SAND, some clayey Silt,		0	**S-3** 4.0' - 4.5' **N>50**
			50/0"	little coarse to fine Gravel, with brick particles, possible boulders			REC = 4" M/C: Moist
6				or concrete blocks.	5.5'		Consistency: Very Dense
7	S-4		3	Mottled gray-brown and yellow-brown, silty CLAY, little fine Sand,		0	**S-4** 6.0' - 8.0' **N=9**
			3	trace organic fibers.			REC = 24" M/C: Moist
8			6	**-ALLUVIAL DEPOSITS-**			Consistency: Stiff
			6				
9	S-5		5	Sample S-5 similar to S-4.		0	**S-5** 8.0' - 10.0' **N=13**
			5				REC = 3" M/C: Moist
10			8				Consistency: Stiff
			9				
11							
12							
13							
14	S-6		4		13.5'		**S-6** 13.0' - 13.6' **N>50**
			50/2"	Moderately hard, moderately to slightly weathered, dark gray, aphanitic, SHALE.		0	REC = 1" M/C: Moist
15				Extremely fractured.			Consistency: Very Dense
				-WEATHERED BEDROCK-			
16	R-1			Advanced augers through fractured shale to 15-feet.			**RUN-1** 15.0' - 20.0'
				-BEDROCK-			RUN = 60" REC = 45"
17				Moderately hard, fresh to slightly weathered, dark gray, aphanitic, SHALE.			%REC= 75%
				Joints horizontal to low angle, very close to close, smooth, planar, tight,			Spcs ≥ 4" = 15"
18				except open with clay infilling from 15 to 16 feet and moderately dipping at			RQD = 15"/60" = 25%
				16.8 feet.			
19							Rock Mass Quality: Poor
20							left 15" of core in the bottom of the boring.
21				Bottom Of Exploration at 20.0 feet			
22				Borehole grouted to approximately 1-ft, then backfilled with clean fill.			* there are several monitoring wells on the site that can be referenced for accurate water level data.
23							

Groundwater/Caving *	Date (mm/dd/yy)	Time (24 hr clock)	Depth in feet to: Bot of Casing	Bot of Hole	Water
While Drilling:	NR	NR	NR	NR	NR
While Drilling or Before Rock Coring:	NR	NR	NR	NR	NR
Before Casing Removed:	NR	NR	NR	NR	NR
After Casing Removed:	NR	NR	Removed	NR	NR

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TEST BORING LOG

Boring No.	**B-3**
Project No.:	2210339
Start Date:	12/18/20
Finish Date:	12/18/20
Inspector:	D. Keller
Surface Elev.:	see survey

Project Name:	320 Roberts Road Freezer/Brownfield Redevelopment Services
Location:	Dunkirk, New York
Client:	The Krog Group
Drilling Firm:	LaBella Environmental, LLC
Driller:	Austin Skinner

Key:
Geologic Strata Change
Gradation Change Within Strata

Drill Rig:	Diedrich D50
Casing:	4-1/4 HSA
Sampler:	1-3/8" ID S.S.
Undisturbed:	None
Hammer:	140# Automatic, 30" drop
Rock Core:	None
Other:	Roblin Site Hand excavated to 2.0 feet. No demarcation layer found.

Coordinates: **N:** see survey **E:** see survey

Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	VISUAL-MANUAL MATERIAL DESCRIPTION trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);	Depth of Change	PID (ppm)	COMMENTS (e.g., N-value, recovery, moisture, core run, % recovered, RQD)
1				Brown, coarse to fine SAND, some Silt, trace coarse to fine Gravel.		0	
				-CLEAN FILL-	0.8'		
2							
			4	Mixed light brown and gray brown and dark brown, silty CLAY, some coarse		1	**S-1** 2.0' - 4.0' **N=7**
3	S-1		4	to fine Sand, trace medium to fine Gravel.			REC = 20" M/C: Moist
			3	**-FILL (reworked alluvial deposits)-**			Consistency: Medium Stiff
4			3				
			1	Sample S-2 similar to S-1, except with concrete fragments.		<1	**S-2** 4.0' - 6.0' **N=3**
5	S-2		1				REC = 15" M/C: Moist
			2				Consistency: Soft
6			2		6.0'		
			4	Mottled gray-brown and yellow-brown, silty CLAY, little fine Sand,		0	**S-3** 6.0' - 8.0' **N=12**
7	S-3		5	trace organic fibers.			REC = 24" M/C: Moist
			7	**-ALLUVIAL DEPOSITS-**			Consistency: Stiff
8			6				
			3	Sample S-4 similar to S-3.		0	**S-4** 8.0' - 10.0' **N=7**
9	S-4		3				REC = 16" M/C: Moist
			4				Consistency: Medium Stiff
10			7				
11							
12					12.0'		
13				Gray-brown, coarse to fine SAND and clayey Silt, some coarse			
	S-5		17	to fine Gravel.		21	**S-5** 13.0' - 13.7' **N>50**
14			50/2"	**-GLACIAL TILL-**			REC = 7" M/C: Dry to Moist
							Consistency: Very Dense
15				Bottom Of Exploration 14.0 feet			
16				Auger refusal on probable bedrock.			
17				Borehole grouted to approximately 1-ft, then backfilled with clean fill.			
18							
19							
20							
21							
22							* there are several monitoring wells on the site that can be referenced for accurate water level data.
23							

Groundwater/Caving *	Date (mm/dd/yy)	Time (24 hr clock)	Depth in feet to: Bot of Casing	Bot of Hole	Water
While Drilling:	12/18/20	NR	NR	NR	NR
While Drilling or Before Rock Coring:	12/18/20	NR	NR	NR	NR
Before Casing Removed:	12/18/20	NR	NR	NR	NR
After Casing Removed:	12/18/20	NR	Removed	NR	NR

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530182511
Firmware Version	3.9
Calibration Date	12/9/2020
Test Name	MANUAL_001
Test Start Time	9:43:16 AM
Test Start Date	12/17/2020
Test Length [D:H:M]	0:07:07
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.008
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.012
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	427

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.012		
120	0.01		
180	0.01		
240	0.01		
300	0.011		
360	0.011		
420	0.011		
480	0.011		
540	0.011		
600	0.01		
660	0.01		
720	0.011		
780	0.01		
840	0.011		
900	0.011		
960	0.01		
1020	0.01		
1080	0.01		
1140	0.01		
1200	0.01		
1260	0.01		
1320	0.01		
1380	0.009		
1440	0.009		
1500	0.011		
1560	0.01		
1620	0.009		

1680	0.009
1740	0.009
1800	0.009
1860	0.009
1920	0.009
1980	0.009
2040	0.01
2100	0.011
2160	0.01
2220	0.008
2280	0.009
2340	0.008
2400	0.008
2460	0.008
2520	0.008
2580	0.008
2640	0.008
2700	0.008
2760	0.009
2820	0.008
2880	0.009
2940	0.009
3000	0.008
3060	0.008
3120	0.009
3180	0.009
3240	0.009
3300	0.009
3360	0.01
3420	0.01
3480	0.009
3540	0.009
3600	0.008
3660	0.009
3720	0.009
3780	0.009
3840	0.009
3900	0.008
3960	0.008
4020	0.008
4080	0.009
4140	0.009
4200	0.009
4260	0.009
4320	0.009
4380	0.009
4440	0.01

4500	0.01
4560	0.01
4620	0.011
4680	0.011
4740	0.009
4800	0.01
4860	0.009
4920	0.01
4980	0.011
5040	0.01
5100	0.01
5160	0.011
5220	0.011
5280	0.011
5340	0.01
5400	0.01
5460	0.01
5520	0.009
5580	0.009
5640	0.009
5700	0.008
5760	0.009
5820	0.008
5880	0.008
5940	0.009
6000	0.008
6060	0.009
6120	0.008
6180	0.009
6240	0.009
6300	0.007
6360	0.006
6420	0.007
6480	0.008
6540	0.009
6600	0.008
6660	0.008
6720	0.007
6780	0.008
6840	0.007
6900	0.006
6960	0.006
7020	0.007
7080	0.007
7140	0.006
7200	0.006
7260	0.006

7320	0.006
7380	0.006
7440	0.006
7500	0.006
7560	0.006
7620	0.006
7680	0.006
7740	0.007
7800	0.006
7860	0.007
7920	0.007
7980	0.006
8040	0.006
8100	0.006
8160	0.007
8220	0.007
8280	0.009
8340	0.01
8400	0.009
8460	0.008
8520	0.007
8580	0.006
8640	0.006
8700	0.006
8760	0.007
8820	0.007
8880	0.006
8940	0.007
9000	0.007
9060	0.007
9120	0.01
9180	0.01
9240	0.008
9300	0.008
9360	0.007
9420	0.007
9480	0.007
9540	0.007
9600	0.007
9660	0.007
9720	0.007
9780	0.007
9840	0.006
9900	0.006
9960	0.006
10020	0.006
10080	0.006

10140	0.006
10200	0.006
10260	0.006
10320	0.006
10380	0.007
10440	0.007
10500	0.006
10560	0.006
10620	0.006
10680	0.006
10740	0.006
10800	0.006
10860	0.006
10920	0.007
10980	0.006
11040	0.008
11100	0.007
11160	0.006
11220	0.007
11280	0.008
11340	0.008
11400	0.009
11460	0.007
11520	0.007
11580	0.006
11640	0.007
11700	0.006
11760	0.006
11820	0.006
11880	0.006
11940	0.006
12000	0.006
12060	0.007
12120	0.007
12180	0.007
12240	0.007
12300	0.007
12360	0.006
12420	0.006
12480	0.006
12540	0.007
12600	0.008
12660	0.007
12720	0.007
12780	0.007
12840	0.007
12900	0.007

12960	0.008
13020	0.007
13080	0.007
13140	0.008
13200	0.006
13260	0.006
13320	0.006
13380	0.006
13440	0.006
13500	0.006
13560	0.007
13620	0.006
13680	0.006
13740	0.006
13800	0.006
13860	0.006
13920	0.006
13980	0.006
14040	0.006
14100	0.007
14160	0.007
14220	0.007
14280	0.008
14340	0.007
14400	0.007
14460	0.007
14520	0.007
14580	0.007
14640	0.006
14700	0.006
14760	0.006
14820	0.006
14880	0.006
14940	0.006
15000	0.006
15060	0.006
15120	0.006
15180	0.007
15240	0.008
15300	0.008
15360	0.006
15420	0.006
15480	0.006
15540	0.007
15600	0.006
15660	0.006
15720	0.006

15780	0.006
15840	0.008
15900	0.007
15960	0.007
16020	0.006
16080	0.007
16140	0.006
16200	0.006
16260	0.006
16320	0.006
16380	0.007
16440	0.007
16500	0.007
16560	0.006
16620	0.006
16680	0.007
16740	0.007
16800	0.007
16860	0.007
16920	0.007
16980	0.007
17040	0.008
17100	0.007
17160	0.007
17220	0.007
17280	0.007
17340	0.008
17400	0.007
17460	0.007
17520	0.008
17580	0.007
17640	0.007
17700	0.008
17760	0.007
17820	0.007
17880	0.007
17940	0.007
18000	0.006
18060	0.007
18120	0.007
18180	0.007
18240	0.007
18300	0.007
18360	0.007
18420	0.007
18480	0.007
18540	0.007

18600	0.007
18660	0.007
18720	0.007
18780	0.007
18840	0.007
18900	0.008
18960	0.008
19020	0.007
19080	0.008
19140	0.007
19200	0.007
19260	0.008
19320	0.007
19380	0.008
19440	0.007
19500	0.007
19560	0.007
19620	0.009
19680	0.01
19740	0.009
19800	0.009
19860	0.009
19920	0.008
19980	0.008
20040	0.008
20100	0.008
20160	0.009
20220	0.008
20280	0.007
20340	0.007
20400	0.008
20460	0.008
20520	0.008
20580	0.008
20640	0.011
20700	0.01
20760	0.01
20820	0.01
20880	0.01
20940	0.009
21000	0.008
21060	0.008
21120	0.009
21180	0.01
21240	0.011
21300	0.01
21360	0.01

21420	0.01
21480	0.011
21540	0.01
21600	0.011
21660	0.01
21720	0.009
21780	0.009
21840	0.008
21900	0.009
21960	0.009
22020	0.009
22080	0.009
22140	0.009
22200	0.009
22260	0.01
22320	0.01
22380	0.01
22440	0.01
22500	0.009
22560	0.008
22620	0.01
22680	0.01
22740	0.01
22800	0.009
22860	0.009
22920	0.009
22980	0.009
23040	0.009
23100	0.01
23160	0.009
23220	0.008
23280	0.008
23340	0.007
23400	0.008
23460	0.009
23520	0.009
23580	0.009
23640	0.009
23700	0.01
23760	0.009
23820	0.01
23880	0.011
23940	0.01
24000	0.009
24060	0.008
24120	0.01
24180	0.01

24240	0.01
24300	0.009
24360	0.01
24420	0.011
24480	0.011
24540	0.01
24600	0.009
24660	0.009
24720	0.009
24780	0.009
24840	0.01
24900	0.01
24960	0.009
25020	0.009
25080	0.009
25140	0.009
25200	0.01
25260	0.011
25320	0.011
25380	0.011
25440	0.01
25500	0.008
25560	0.008
25620	0.008

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530182511
Firmware Version	3.9
Calibration Date	12/9/2020
Test Name	MANUAL_002
Test Start Time	8:26:34 AM
Test Start Date	12/18/2020
Test Length [D:H:M]	0:08:32
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.008
Mass Minimum [mg/m3]	0.005
Mass Maximum [mg/m3]	0.017
Mass TWA [mg/m3]	0.008
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	512

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.014		
120	0.01		
180	0.01		
240	0.01		
300	0.01		
360	0.01		
420	0.01		
480	0.01		
540	0.01		
600	0.01		
660	0.01		
720	0.01		
780	0.01		
840	0.009		
900	0.01		
960	0.009		
1020	0.009		
1080	0.009		
1140	0.009		
1200	0.009		
1260	0.009		
1320	0.009		
1380	0.009		
1440	0.009		
1500	0.009		
1560	0.009		
1620	0.009		

1680	0.01
1740	0.01
1800	0.009
1860	0.009
1920	0.009
1980	0.009
2040	0.009
2100	0.009
2160	0.009
2220	0.009
2280	0.009
2340	0.009
2400	0.009
2460	0.009
2520	0.009
2580	0.009
2640	0.009
2700	0.009
2760	0.009
2820	0.009
2880	0.009
2940	0.009
3000	0.008
3060	0.008
3120	0.008
3180	0.009
3240	0.008
3300	0.008
3360	0.008
3420	0.008
3480	0.008
3540	0.008
3600	0.008
3660	0.008
3720	0.008
3780	0.008
3840	0.008
3900	0.008
3960	0.008
4020	0.008
4080	0.008
4140	0.008
4200	0.008
4260	0.008
4320	0.008
4380	0.008
4440	0.008

4500	0.008
4560	0.008
4620	0.008
4680	0.008
4740	0.008
4800	0.008
4860	0.008
4920	0.008
4980	0.008
5040	0.008
5100	0.008
5160	0.008
5220	0.008
5280	0.008
5340	0.008
5400	0.008
5460	0.008
5520	0.008
5580	0.008
5640	0.008
5700	0.008
5760	0.008
5820	0.008
5880	0.008
5940	0.008
6000	0.008
6060	0.008
6120	0.008
6180	0.008
6240	0.008
6300	0.008
6360	0.008
6420	0.008
6480	0.008
6540	0.008
6600	0.008
6660	0.008
6720	0.008
6780	0.009
6840	0.008
6900	0.008
6960	0.008
7020	0.01
7080	0.008
7140	0.008
7200	0.008
7260	0.008

7320	0.009
7380	0.009
7440	0.009
7500	0.009
7560	0.008
7620	0.009
7680	0.009
7740	0.009
7800	0.009
7860	0.009
7920	0.009
7980	0.008
8040	0.009
8100	0.009
8160	0.009
8220	0.011
8280	0.01
8340	0.009
8400	0.009
8460	0.009
8520	0.01
8580	0.011
8640	0.008
8700	0.009
8760	0.01
8820	0.01
8880	0.009
8940	0.009
9000	0.009
9060	0.009
9120	0.009
9180	0.009
9240	0.009
9300	0.009
9360	0.009
9420	0.008
9480	0.009
9540	0.009
9600	0.009
9660	0.009
9720	0.009
9780	0.009
9840	0.009
9900	0.009
9960	0.009
10020	0.009
10080	0.009

10140	0.009
10200	0.009
10260	0.009
10320	0.01
10380	0.01
10440	0.01
10500	0.009
10560	0.009
10620	0.009
10680	0.01
10740	0.01
10800	0.01
10860	0.01
10920	0.01
10980	0.009
11040	0.01
11100	0.01
11160	0.01
11220	0.01
11280	0.011
11340	0.01
11400	0.01
11460	0.01
11520	0.01
11580	0.01
11640	0.01
11700	0.01
11760	0.01
11820	0.01
11880	0.01
11940	0.01
12000	0.01
12060	0.01
12120	0.01
12180	0.01
12240	0.01
12300	0.01
12360	0.01
12420	0.01
12480	0.009
12540	0.01
12600	0.01
12660	0.009
12720	0.009
12780	0.009
12840	0.009
12900	0.01

12960	0.01
13020	0.01
13080	0.01
13140	0.011
13200	0.011
13260	0.012
13320	0.01
13380	0.01
13440	0.01
13500	0.009
13560	0.01
13620	0.01
13680	0.01
13740	0.009
13800	0.01
13860	0.01
13920	0.009
13980	0.009
14040	0.009
14100	0.01
14160	0.009
14220	0.009
14280	0.009
14340	0.009
14400	0.01
14460	0.01
14520	0.01
14580	0.009
14640	0.01
14700	0.009
14760	0.009
14820	0.009
14880	0.009
14940	0.009
15000	0.009
15060	0.009
15120	0.01
15180	0.009
15240	0.009
15300	0.009
15360	0.009
15420	0.009
15480	0.009
15540	0.009
15600	0.009
15660	0.008
15720	0.009

15780	0.009
15840	0.008
15900	0.009
15960	0.009
16020	0.008
16080	0.008
16140	0.008
16200	0.008
16260	0.009
16320	0.008
16380	0.008
16440	0.008
16500	0.008
16560	0.008
16620	0.008
16680	0.008
16740	0.008
16800	0.007
16860	0.007
16920	0.007
16980	0.007
17040	0.007
17100	0.007
17160	0.007
17220	0.007
17280	0.007
17340	0.007
17400	0.007
17460	0.007
17520	0.007
17580	0.007
17640	0.007
17700	0.007
17760	0.006
17820	0.006
17880	0.006
17940	0.007
18000	0.007
18060	0.008
18120	0.006
18180	0.006
18240	0.006
18300	0.006
18360	0.006
18420	0.006
18480	0.006
18540	0.006

18600	0.006
18660	0.005
18720	0.006
18780	0.006
18840	0.006
18900	0.006
18960	0.006
19020	0.006
19080	0.006
19140	0.006
19200	0.006
19260	0.006
19320	0.006
19380	0.006
19440	0.006
19500	0.006
19560	0.006
19620	0.006
19680	0.006
19740	0.006
19800	0.006
19860	0.006
19920	0.006
19980	0.006
20040	0.006
20100	0.006
20160	0.006
20220	0.006
20280	0.006
20340	0.006
20400	0.006
20460	0.006
20520	0.006
20580	0.006
20640	0.006
20700	0.006
20760	0.006
20820	0.006
20880	0.006
20940	0.006
21000	0.006
21060	0.006
21120	0.006
21180	0.006
21240	0.006
21300	0.006
21360	0.007

21420	0.007
21480	0.007
21540	0.006
21600	0.007
21660	0.006
21720	0.006
21780	0.006
21840	0.006
21900	0.007
21960	0.007
22020	0.007
22080	0.007
22140	0.007
22200	0.007
22260	0.007
22320	0.007
22380	0.007
22440	0.007
22500	0.007
22560	0.007
22620	0.006
22680	0.007
22740	0.007
22800	0.006
22860	0.006
22920	0.007
22980	0.007
23040	0.007
23100	0.007
23160	0.007
23220	0.007
23280	0.007
23340	0.006
23400	0.006
23460	0.006
23520	0.006
23580	0.007
23640	0.007
23700	0.007
23760	0.007
23820	0.007
23880	0.007
23940	0.007
24000	0.007
24060	0.007
24120	0.006
24180	0.006

24240	0.006
24300	0.007
24360	0.007
24420	0.007
24480	0.007
24540	0.006
24600	0.007
24660	0.006
24720	0.006
24780	0.006
24840	0.007
24900	0.007
24960	0.007
25020	0.006
25080	0.006
25140	0.007
25200	0.007
25260	0.007
25320	0.007
25380	0.007
25440	0.007
25500	0.007
25560	0.007
25620	0.007
25680	0.007
25740	0.007
25800	0.007
25860	0.007
25920	0.007
25980	0.007
26040	0.006
26100	0.006
26160	0.006
26220	0.006
26280	0.007
26340	0.006
26400	0.006
26460	0.006
26520	0.006
26580	0.006
26640	0.006
26700	0.006
26760	0.006
26820	0.006
26880	0.006
26940	0.007
27000	0.006

27060	0.006
27120	0.007
27180	0.007
27240	0.007
27300	0.007
27360	0.007
27420	0.006
27480	0.007
27540	0.007
27600	0.007
27660	0.007
27720	0.007
27780	0.007
27840	0.007
27900	0.007
27960	0.007
28020	0.007
28080	0.007
28140	0.007
28200	0.007
28260	0.007
28320	0.007
28380	0.006
28440	0.006
28500	0.006
28560	0.006
28620	0.006
28680	0.007
28740	0.006
28800	0.007
28860	0.008
28920	0.009
28980	0.011
29040	0.01
29100	0.008
29160	0.007
29220	0.007
29280	0.007
29340	0.007
29400	0.007
29460	0.008
29520	0.008
29580	0.008
29640	0.008
29700	0.007
29760	0.007
29820	0.007

29880	0.007
29940	0.007
30000	0.006
30060	0.007
30120	0.008
30180	0.008
30240	0.008
30300	0.009
30360	0.008
30420	0.007
30480	0.007
30540	0.008
30600	0.007
30660	0.008
30720	0.017

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 800-535-5053	4. Waste Tracking Number 39020

GENERATOR

5. Generator's Name and Mailing Address
Former Roblin Steel Site
320 South Roberts Road
Dunkirk, NY 14048
Generator's Phone: 716-873-2116

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Environmental Service Group, Inc 716.695.6720 — U.S. EPA ID Number: NYD986903904

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
American Recyclers Company
177 Wales Avenue
Tonawanda, NY 14150
Facility's Phone: 716.695.6720 — U.S. EPA ID Number: NYR000030809

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non RCRA Non DOT Regulated, (Soil Cuttings)	004	DM	2400	P	EST
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

ERG: 1 - 2 - 3 - 4 -

Approval #: 1 - A-18404L 2 - 3 - 4 -

Handling Codes: 1 - None 2 - 3 - 4 -

24 Hour Emergency Contact: INFOTRAC (Caller Must ID ESG)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: JAMES FEDESON AS AGENT FOR LABELLA ASSOCIATES — Signature: James Fedeson — Month 06 Day 29 Year 21

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JAMES FEDESON — Signature: James Fedeson — Month 06 Day 29 Year 21

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Justin Rainville — Signature: Justin Rainville — Month 06 Day 24 Year 21

DESIGNATED FACILITY TO GENERATOR

APPENDIX 5

Site Management Periodic Review Report – Institutional and Engineering Controls Certification Form

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

Site Details **Box 1**

Site No. B00173

Site Name Former Roblin Steel Site (Dunkirk)

Site Address: 320 South Roberts Road Zip Code: 14048
City/Town: Dunkirk
County: Chautauqua
Site Acreage: 11.830

Reporting Period: December 15, 2020 to December 15, 2021

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	☐
7. Are all ICs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. B00173 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
79.12-4-29	Chautauqua County	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

The Site Management Plan includes:
- An Engineering and Institutional Controls Plan. Engineering controls include a one-foot thick soil cover system, asphalt cover system (Progress Drive), and provisions for evaluating the potential for soil vapor intrusion to any new buildings constructed and the installation of soil vapor mitigation systems if warranted. Institutional controls at the site will include groundwater use restrictions and use restrictions of the Site to restricted use (i.e. commercial/industrial purposes).
- An Excavation Work Plan to assure that future intrusive activities and soil/fill handling at the Site are completed in a safe and environmentally responsible manner.
- A Site Monitoring Plan that includes: provisions for groundwater monitoring; and,
- A Site-wide Inspection program to assure that the Institutional controls have not been altered and remain effective.

79.12-4-30	Chautauqua County	Ground Water Use Restriction Soil Management Plan Monitoring Plan Site Management Plan IC/EC Plan Landuse Restriction

The Site Management Plan includes:
- An Engineering and Institutional Controls Plan. Engineering controls include a one-foot thick soil cover system, asphalt cover system (Progress Drive) and provisions for evaluating the potential for soil vapor intrusion to any new buildings constructed and the installation of soil vapor mitigation systems if warranted. Institutional controls at the site will include groundwater use restrictions and use restrictions of the Site to restricted use (i.e. commercial/industrial purposes).
- An Excavation Work Plan to assure that future intrusive activities and soil/fill handling at the Site are completed in a safe and environmentally responsible manner.
- A Site Monitoring Plan that includes: provisions for groundwater monitoring; and,
- A Site-wide Inspection program to assure that the Institutional controls have not been altered and remain effective.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
79.12-4-29	Cover System Vapor Mitigation
79.12-4-30	Vapor Mitigation Cover System

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. B00173

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I Mark Geise at 3 N. Erie St, Mayville, NY 14757
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Mark Geise 12/21/21
Signature of Owner, Remedial Party, or Designated Representative Date
Rendering Certification

Mark Geise
Deputy County Executive for Economic Development
201 West Third Street
Jamestown, New York 14701
geisem@chqgov.com
716-661-8902

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

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

I Daniel P. Noll (print name) at LaBella Associates, D.P.C. 300 State Street, Rochester, NY (print business address),

am certifying as a Professional Engineer for the Owner (Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		1/14/2022

APPENDIX 6

Groundwater Sampling Logs

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. MW-02R

Site Location: Roblin
Sample Date: 12/2/21
LaBella Representative: AK

Job No. **2200014**

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	1056	1105	1120	1132	1140		
Depth of well	23.5						
Depth to water	6.25						
Well diameter	2"						
Well volume (gallons)	2.76						
Purging device	Peristaltic						
Containment device							
Purge time							
Gallons purged	0	2.75	5.5	8.25			
Sample device							
Field Parameters							
Temperature	13.4	13.6	13.7	14.2	14.0		
pH measurement	7.39	7.35	7.07	7.40	7.49		
Conductivity (mS/cm)	0.967	1.000	0.997	0.920	0.903		
ORP/Eh (mV)	-76.0	-73.1	-90.8	-76.7	-77.7		
Turbidity (NTUs)	7.70	13.88	11.52	30.45	50.32		

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. MW-04

Site Location: Robin

Job No. **2200014**

Sample Date: 12/2/21

LaBella Representative: AK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	1228	1238	1248	1258	1307		
Depth of well	16.25						
Depth to water	3.09						
Well diameter	2.0"						
Well volume (gallons)	2.1						
Purging device	Peri-pump						
Containment device							
Purge time							
Gallons purged	0	2.1	4.2	6.4			
Sample device							
Field Parameters							
Temperature	13.7	13.3	13.5	13.7	13.5		
pH measurement	7.76	7.21	7.24	7.26	7.26		
Conductivity (mS/cm)	1.091	1.097	1.063	1.016	0.985		
ORP/Eh (mV)	-59.2	-81.5	-88.2	-103.0	-123.4		
Turbidity (NTUs)	10.11	11.48	13.72	13.56	8.17		

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. MW-28
Job No. **2200014**

Site Location: Roblin
Sample Date: 12/2/21
LaBella Representative:

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	1145	1155	1205	1215	1220		
Depth of well	17.8						
Depth to water	4.58						
Well diameter	2.0"						
Well volume (gallons)	2.1						
Purging device	Peristaltic						
Containment device							
Purge time							
Gallons purged	0	2.1	4.2	6.4			
Sample device							
Field Parameters							
Temperature	13.7	13.4	13.6	14.1	13.8		
pH measurement	7.61	7.72	7.86	7.54	7.52		
Conductivity (mS/cm)	1.722	1.715	1.656	1.622	1.620		
ORP/Eh (mV)	-94.5	-81.3	-73.5	-75.5	-81.2		
Turbidity (NTUs)	138.51	20.4	7.11	4.94	7.76		

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; Temperature: ± 0.5°C; Specific Conductance: ± 10%; Turbidity: ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. MW-09R
Job No. **2160148**

Site Location: Roblin
Sample Date: 12/2/21
LaBella Representative: AK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	1426	1431	1441	1451	1455		
Depth of well	16.9						
Depth to water	4.28						
Well diameter	2.0"						
Well volume (gallons)	2.0						
Purging device	Peri-pump						
Containment device							
Purge time							
Gallons purged	Ø	2.0	4.0	6.0			
Sample device							
Field Parameters							
Temperature	12.8	12.6	13.0	13.4			
pH measurement	7.56	7.43	7.31	7.35			
Conductivity (mS/cm)	0.977	0.969	0.957	0.942			
ORP/Eh (mV)	-107.0	-104.4	-82.9	-110.3			
Turbidity (NTUs)	12.90	4.24	1.60	1.53			

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. MW-12
Site Location: Robin
Sample Date: 12/2/21
LaBella Representative:
Job No. **2160148**

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time							
Depth of well							
Depth to water	4.78	5.32					
Well diameter							
Well volume (gallons)							
Purging device							
Containment device							
Purge time							
Gallons purged							
Sample device							
Field Parameters							
Temperature							
pH measurement							
Conductivity (mS/cm)							
ORP/Eh (mV)							
Turbidity (NTUs)							

WEATHER:

NOTES/FIELD OBSERVATIONS:

Just a WL Reading

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; Temperature: ± 0.5°C; Specific Conductance: ± 10%; Turbidity: ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. EK-MW-11R

Site Location: Roblin
Sample Date: 12/2/21
LaBella Representative:

Job No. **2200014**

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	1017	1026	1035	1042	1045		
Depth of well	18.9						
Depth to water	6.81						
Well diameter	2"						
Well volume (gallons)	1.9						
Purging device	Peristaltic						
Containment device							
Purge time							
Gallons purged	Ø	1.9	3.8	5.7			
Sample device							
Field Parameters							
Temperature	13.1	13.4	14.1	14.2	14.2		
pH measurement	7.37	8.09	7.61	7.59	7.46		
Conductivity (mS/cm)	1.005	0.614	0.587	0.582	0.612		
ORP/Eh (mV)	-52.1	-21.3	-78.7	-91.1	-77.6		
Turbidity (NTUs)	52.67	13.60	20.04	21.26	17.53		

WEATHER:

NOTES/FIELD OBSERVATIONS:

Duplicate taken at this location
sulfur odor

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. Stabilization Criteria for range of variation of last three consecutive Readings

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** < 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. EX-MW-12
Site Location: Roblin
Job No. **2200014**
Sample Date: 12/2/21
LaBella Representative: AK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	1318	1324	1335	1347	1356		
Depth of well	23.26						
Depth to water	6.100						
Well diameter	2.0"						
Well volume (gallons)	2.7						
Purging device	Peri-Pump						
Containment device							
Purge time							
Gallons purged	2	2.7	5.4	8.1			
Sample device							
Field Parameters							
Temperature	14.1	13.6	13.9	14.1	14.4		
pH measurement	6.98	6.88	6.89	6.92	6.95		
Conductivity (mS/cm)	1.791	1.686	1.741	1.820	1.822		
ORP/Eh (mV)	-79.6	-64.3	-63.9	-64.9	-66.6		
Turbidity (NTUs)	14.02	7.60	5.62	9.24	5.02		

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; Temperature: ± 0.5°C; Specific Conductance: ± 10%; Turbidity: ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

APPENDIX 7

Laboratory Analytical Results

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-192985-1
Client Project/Site: Alumax & Roblin Periodic Review Reports

For:
LaBella Associates DPC
300 Pearl Street
Suite 130
Buffalo, New York 14202

Attn: Chris Kibler

Authorized for release by:
12/8/2021 12:49:26 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 480-192985-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-192985-1

Comments
No additional comments.

Receipt
The samples were received on 12/2/2021 4:19 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: EX-MW-11R (480-192985-4), MW-07R (480-192985-6) and DUP (480-192985-10). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-607540 recovered above the upper control limit for Carbon tetrachloride and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: AL-2 (480-192985-1), AL-7 (480-192985-3), EX-MW-11R (480-192985-4), MW-02R (480-192985-5), MW-07R (480-192985-6), DUP (480-192985-10) and TRIP BLANK (480-192985-11).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: EX-MW-11R (480-192985-4), MW-07R (480-192985-6) and DUP (480-192985-10). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-607644 recovered above the upper control limit for 1,1,1-Trichloroethane, Carbon tetrachloride and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: AL-1 (480-192985-2), EX-MW-11R (480-192985-4), MW-07R (480-192985-6), MW-04 (480-192985-7), EX-MW-12 (480-192985-8), MW-09R (480-192985-9) and DUP (480-192985-10).

Method 8260C: The surrogate Dibromofluoromethane (SURR) was outside the 20%D limits on the continuing calibration verification (CCVIS). The following samples are impacted: AL-1 (480-192985-2), EX-MW-11R (480-192985-4), MW-07R (480-192985-6), MW-04 (480-192985-7), EX-MW-12 (480-192985-8), MW-09R (480-192985-9) and DUP (480-192985-10).

Method 8260C: Due to the co-elution of Ethyl Acetate with 2-Butanone in the full spike solution, 2-Butanone exceeded control limits in the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with batch 480-607644 . The following samples are impacted: AL-1 (480-192985-2), EX-MW-11R (480-192985-4), MW-07R (480-192985-6), MW-04 (480-192985-7), EX-MW-12 (480-192985-8), MW-09R (480-192985-9) and DUP (480-192985-10).

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 480-607644 recovered outside control limits for the following analyte: Acetone. The following samples are impacted: AL-1 (480-192985-2), EX-MW-11R (480-192985-4), MW-07R (480-192985-6), MW-04 (480-192985-7), EX-MW-12 (480-192985-8), MW-09R (480-192985-9) and DUP (480-192985-10).

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

Detection Summary

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-2 — Lab Sample ID: 480-192985-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	23		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.6		1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	6.9		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	2.3		1.0	0.16	ug/L	1		8260C	Total/NA
Xylenes, Total	4.9		2.0	0.66	ug/L	1		8260C	Total/NA

Client Sample ID: AL-1 — Lab Sample ID: 480-192985-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	29		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	26		1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	56		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	27		1.0	0.16	ug/L	1		8260C	Total/NA
Xylenes, Total	22		2.0	0.66	ug/L	1		8260C	Total/NA

Client Sample ID: AL-7 — Lab Sample ID: 480-192985-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.7		1.0	0.81	ug/L	1		8260C	Total/NA

Client Sample ID: EX-MW-11R — Lab Sample ID: 480-192985-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	63		20	5.8	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	7700	E	20	16	ug/L	20		8260C	Total/NA
Cyclohexane	37		20	3.6	ug/L	20		8260C	Total/NA
Methylcyclohexane	35		20	3.2	ug/L	20		8260C	Total/NA
trans-1,2-Dichloroethene	37		20	18	ug/L	20		8260C	Total/NA
Trichloroethene	1400	F1	20	9.2	ug/L	20		8260C	Total/NA
Vinyl chloride	1300	F1	20	18	ug/L	20		8260C	Total/NA
1,1-Dichloroethene - DL	52	J	130	36	ug/L	125		8260C	Total/NA
cis-1,2-Dichloroethene - DL	7400		130	100	ug/L	125		8260C	Total/NA
Cyclohexane - DL	51	J	130	23	ug/L	125		8260C	Total/NA
Methylcyclohexane - DL	46	J	130	20	ug/L	125		8260C	Total/NA
Trichloroethene - DL	1300		130	58	ug/L	125		8260C	Total/NA
Vinyl chloride - DL	1200		130	110	ug/L	125		8260C	Total/NA

Client Sample ID: MW-02R — Lab Sample ID: 480-192985-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.4		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	5.1		1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	4.3		1.0	0.18	ug/L	1		8260C	Total/NA
Isopropylbenzene	1.2		1.0	0.79	ug/L	1		8260C	Total/NA
Methylcyclohexane	1.7		1.0	0.16	ug/L	1		8260C	Total/NA
Vinyl chloride	6.1		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: MW-07R — Lab Sample ID: 480-192985-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.0		4.0	1.5	ug/L	4		8260C	Total/NA
1,1-Dichloroethene	15		4.0	1.2	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	3400	E	4.0	3.2	ug/L	4		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-07R (Continued)
Lab Sample ID: 480-192985-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	14		4.0	3.6	ug/L	4		8260C	Total/NA
Trichloroethene	120		4.0	1.8	ug/L	4		8260C	Total/NA
Vinyl chloride	710	E	4.0	3.6	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene - DL	3600		80	65	ug/L	80		8260C	Total/NA
Trichloroethene - DL	120		80	37	ug/L	80		8260C	Total/NA
Vinyl chloride - DL	740		80	72	ug/L	80		8260C	Total/NA

Client Sample ID: MW-04
Lab Sample ID: 480-192985-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.3		1.0	0.81	ug/L	1		8260C	Total/NA

Client Sample ID: EX-MW-12
Lab Sample ID: 480-192985-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1		1.0	0.19	ug/L	1		8260C	Total/NA

Client Sample ID: MW-09R
Lab Sample ID: 480-192985-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	13		1.0	0.41	ug/L	1		8260C	Total/NA
Carbon disulfide	0.57	J	1.0	0.19	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	4.3		1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	28		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	9.4		1.0	0.16	ug/L	1		8260C	Total/NA
Vinyl chloride	17		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: DUP
Lab Sample ID: 480-192985-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	62		20	5.8	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	7700	E	20	16	ug/L	20		8260C	Total/NA
Cyclohexane	37		20	3.6	ug/L	20		8260C	Total/NA
Methylcyclohexane	37		20	3.2	ug/L	20		8260C	Total/NA
trans-1,2-Dichloroethene	36		20	18	ug/L	20		8260C	Total/NA
Trichloroethene	1400		20	9.2	ug/L	20		8260C	Total/NA
Vinyl chloride	1300		20	18	ug/L	20		8260C	Total/NA
Carbon disulfide - DL	740		200	38	ug/L	200		8260C	Total/NA
cis-1,2-Dichloroethene - DL	7800		200	160	ug/L	200		8260C	Total/NA
Trichloroethene - DL	1400		200	92	ug/L	200		8260C	Total/NA
Vinyl chloride - DL	1300		200	180	ug/L	200		8260C	Total/NA

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-192985-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.8	J	10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.67	J	1.0	0.19	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.0		1.0	0.81	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-2
Lab Sample ID: 480-192985-1
Date Collected: 12/02/21 09:01
Matrix: Water
Date Received: 12/02/21 16:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/04/21 03:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/04/21 03:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/04/21 03:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/04/21 03:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/04/21 03:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/04/21 03:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/04/21 03:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/04/21 03:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/04/21 03:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/04/21 03:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/04/21 03:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/04/21 03:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/04/21 03:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/04/21 03:17	1
2-Hexanone	ND		5.0	1.2	ug/L			12/04/21 03:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/04/21 03:17	1
Acetone	ND		10	3.0	ug/L			12/04/21 03:17	1
Benzene	**23**		1.0	0.41	ug/L			12/04/21 03:17	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/04/21 03:17	1
Bromoform	ND		1.0	0.26	ug/L			12/04/21 03:17	1
Bromomethane	ND		1.0	0.69	ug/L			12/04/21 03:17	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/04/21 03:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/04/21 03:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/04/21 03:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/04/21 03:17	1
Chloroethane	ND		1.0	0.32	ug/L			12/04/21 03:17	1
Chloroform	ND		1.0	0.34	ug/L			12/04/21 03:17	1
Chloromethane	ND		1.0	0.35	ug/L			12/04/21 03:17	1
cis-1,2-Dichloroethene	**1.6**		1.0	0.81	ug/L			12/04/21 03:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/04/21 03:17	1
Cyclohexane	**6.9**		1.0	0.18	ug/L			12/04/21 03:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/04/21 03:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/04/21 03:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/04/21 03:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/04/21 03:17	1
Methyl acetate	ND		2.5	1.3	ug/L			12/04/21 03:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/04/21 03:17	1
Methylcyclohexane	**2.3**		1.0	0.16	ug/L			12/04/21 03:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/04/21 03:17	1
Styrene	ND		1.0	0.73	ug/L			12/04/21 03:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/04/21 03:17	1
Toluene	ND		1.0	0.51	ug/L			12/04/21 03:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/04/21 03:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/04/21 03:17	1
Trichloroethene	ND		1.0	0.46	ug/L			12/04/21 03:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/04/21 03:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/04/21 03:17	1
Xylenes, Total	**4.9**		2.0	0.66	ug/L			12/04/21 03:17	1

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-2
Lab Sample ID: 480-192985-1
Date Collected: 12/02/21 09:01
Matrix: Water
Date Received: 12/02/21 16:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120		12/04/21 03:17	1
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		12/04/21 03:17	1
4-Bromofluorobenzene (Surr)	110		73 - 120		12/04/21 03:17	1
Dibromofluoromethane (Surr)	122		75 - 123		12/04/21 03:17	1

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-1
Lab Sample ID: 480-192985-2
Date Collected: 12/02/21 09:30
Matrix: Water
Date Received: 12/02/21 16:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/06/21 14:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/06/21 14:46	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/06/21 14:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/06/21 14:46	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/06/21 14:46	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/06/21 14:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/06/21 14:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/06/21 14:46	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/06/21 14:46	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/06/21 14:46	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/06/21 14:46	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/06/21 14:46	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/06/21 14:46	1
2-Butanone (MEK)	ND	*+	10	1.3	ug/L			12/06/21 14:46	1
2-Hexanone	ND		5.0	1.2	ug/L			12/06/21 14:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/06/21 14:46	1
Acetone	ND	*1	10	3.0	ug/L			12/06/21 14:46	1
Benzene	**29**		1.0	0.41	ug/L			12/06/21 14:46	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/06/21 14:46	1
Bromoform	ND		1.0	0.26	ug/L			12/06/21 14:46	1
Bromomethane	ND		1.0	0.69	ug/L			12/06/21 14:46	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/06/21 14:46	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/06/21 14:46	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/06/21 14:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/06/21 14:46	1
Chloroethane	ND		1.0	0.32	ug/L			12/06/21 14:46	1
Chloroform	ND		1.0	0.34	ug/L			12/06/21 14:46	1
Chloromethane	ND		1.0	0.35	ug/L			12/06/21 14:46	1
cis-1,2-Dichloroethene	**26**		1.0	0.81	ug/L			12/06/21 14:46	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/06/21 14:46	1
Cyclohexane	**56**		1.0	0.18	ug/L			12/06/21 14:46	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/06/21 14:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/06/21 14:46	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/06/21 14:46	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/06/21 14:46	1
Methyl acetate	ND		2.5	1.3	ug/L			12/06/21 14:46	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/06/21 14:46	1
Methylcyclohexane	**27**		1.0	0.16	ug/L			12/06/21 14:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/06/21 14:46	1
Styrene	ND		1.0	0.73	ug/L			12/06/21 14:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/06/21 14:46	1
Toluene	ND		1.0	0.51	ug/L			12/06/21 14:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/06/21 14:46	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/06/21 14:46	1
Trichloroethene	ND		1.0	0.46	ug/L			12/06/21 14:46	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/06/21 14:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/06/21 14:46	1
Xylenes, Total	**22**		2.0	0.66	ug/L			12/06/21 14:46	1

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-1
Lab Sample ID: 480-192985-2
Date Collected: 12/02/21 09:30
Matrix: Water
Date Received: 12/02/21 16:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		12/06/21 14:46	1
1,2-Dichloroethane-d4 (Surr)	118		77 - 120		12/06/21 14:46	1
4-Bromofluorobenzene (Surr)	106		73 - 120		12/06/21 14:46	1
Dibromofluoromethane (Surr)	116		75 - 123		12/06/21 14:46	1

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-7
Lab Sample ID: 480-192985-3
Date Collected: 12/02/21 09:55
Matrix: Water
Date Received: 12/02/21 16:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/04/21 04:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/04/21 04:00	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/04/21 04:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/04/21 04:00	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/04/21 04:00	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/04/21 04:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/04/21 04:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/04/21 04:00	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/04/21 04:00	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/04/21 04:00	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/04/21 04:00	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/04/21 04:00	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/04/21 04:00	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/04/21 04:00	1
2-Hexanone	ND		5.0	1.2	ug/L			12/04/21 04:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/04/21 04:00	1
Acetone	ND		10	3.0	ug/L			12/04/21 04:00	1
Benzene	ND		1.0	0.41	ug/L			12/04/21 04:00	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/04/21 04:00	1
Bromoform	ND		1.0	0.26	ug/L			12/04/21 04:00	1
Bromomethane	ND		1.0	0.69	ug/L			12/04/21 04:00	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/04/21 04:00	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/04/21 04:00	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/04/21 04:00	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/04/21 04:00	1
Chloroethane	ND		1.0	0.32	ug/L			12/04/21 04:00	1
Chloroform	ND		1.0	0.34	ug/L			12/04/21 04:00	1
Chloromethane	ND		1.0	0.35	ug/L			12/04/21 04:00	1
cis-1,2-Dichloroethene	**3.7**		1.0	0.81	ug/L			12/04/21 04:00	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/04/21 04:00	1
Cyclohexane	ND		1.0	0.18	ug/L			12/04/21 04:00	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/04/21 04:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/04/21 04:00	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/04/21 04:00	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/04/21 04:00	1
Methyl acetate	ND		2.5	1.3	ug/L			12/04/21 04:00	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/04/21 04:00	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/04/21 04:00	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/04/21 04:00	1
Styrene	ND		1.0	0.73	ug/L			12/04/21 04:00	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/04/21 04:00	1
Toluene	ND		1.0	0.51	ug/L			12/04/21 04:00	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/04/21 04:00	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/04/21 04:00	1
Trichloroethene	ND		1.0	0.46	ug/L			12/04/21 04:00	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/04/21 04:00	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/04/21 04:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/04/21 04:00	1

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-7
Lab Sample ID: 480-192985-3
Date Collected: 12/02/21 09:55
Matrix: Water
Date Received: 12/02/21 16:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		12/04/21 04:00	1
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		12/04/21 04:00	1
4-Bromofluorobenzene (Surr)	109		73 - 120		12/04/21 04:00	1
Dibromofluoromethane (Surr)	120		75 - 123		12/04/21 04:00	1

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: EX-MW-11R
Lab Sample ID: 480-192985-4
Date Collected: 12/02/21 10:45
Matrix: Water
Date Received: 12/02/21 16:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			12/04/21 04:22	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			12/04/21 04:22	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			12/04/21 04:22	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			12/04/21 04:22	20
1,1-Dichloroethane	ND		20	7.6	ug/L			12/04/21 04:22	20
1,1-Dichloroethene	**63**		20	5.8	ug/L			12/04/21 04:22	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			12/04/21 04:22	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			12/04/21 04:22	20
1,2-Dichlorobenzene	ND		20	16	ug/L			12/04/21 04:22	20
1,2-Dichloroethane	ND		20	4.2	ug/L			12/04/21 04:22	20
1,2-Dichloropropane	ND		20	14	ug/L			12/04/21 04:22	20
1,3-Dichlorobenzene	ND		20	16	ug/L			12/04/21 04:22	20
1,4-Dichlorobenzene	ND		20	17	ug/L			12/04/21 04:22	20
2-Butanone (MEK)	ND		200	26	ug/L			12/04/21 04:22	20
2-Hexanone	ND		100	25	ug/L			12/04/21 04:22	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			12/04/21 04:22	20
Acetone	ND		200	60	ug/L			12/04/21 04:22	20
Benzene	ND		20	8.2	ug/L			12/04/21 04:22	20
Bromodichloromethane	ND		20	7.8	ug/L			12/04/21 04:22	20
Bromoform	ND		20	5.2	ug/L			12/04/21 04:22	20
Bromomethane	ND		20	14	ug/L			12/04/21 04:22	20
Carbon disulfide	ND		20	3.8	ug/L			12/04/21 04:22	20
Carbon tetrachloride	ND		20	5.4	ug/L			12/04/21 04:22	20
Chlorobenzene	ND		20	15	ug/L			12/04/21 04:22	20
Dibromochloromethane	ND		20	6.4	ug/L			12/04/21 04:22	20
Chloroethane	ND		20	6.4	ug/L			12/04/21 04:22	20
Chloroform	ND		20	6.8	ug/L			12/04/21 04:22	20
Chloromethane	ND		20	7.0	ug/L			12/04/21 04:22	20
cis-1,2-Dichloroethene	**7700**	**E**	20	16	ug/L			12/04/21 04:22	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			12/04/21 04:22	20
Cyclohexane	**37**		20	3.6	ug/L			12/04/21 04:22	20
Dichlorodifluoromethane	ND		20	14	ug/L			12/04/21 04:22	20
Ethylbenzene	ND		20	15	ug/L			12/04/21 04:22	20
1,2-Dibromoethane	ND		20	15	ug/L			12/04/21 04:22	20
Isopropylbenzene	ND		20	16	ug/L			12/04/21 04:22	20
Methyl acetate	ND	F2	50	26	ug/L			12/04/21 04:22	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			12/04/21 04:22	20
Methylcyclohexane	**35**		20	3.2	ug/L			12/04/21 04:22	20
Methylene Chloride	ND		20	8.8	ug/L			12/04/21 04:22	20
Styrene	ND		20	15	ug/L			12/04/21 04:22	20
Tetrachloroethene	ND		20	7.2	ug/L			12/04/21 04:22	20
Toluene	ND		20	10	ug/L			12/04/21 04:22	20
trans-1,2-Dichloroethene	**37**		20	18	ug/L			12/04/21 04:22	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			12/04/21 04:22	20
Trichloroethene	**1400**	**F1**	20	9.2	ug/L			12/04/21 04:22	20
Trichlorofluoromethane	ND	F1	20	18	ug/L			12/04/21 04:22	20
Vinyl chloride	**1300**	**F1**	20	18	ug/L			12/04/21 04:22	20
Xylenes, Total	ND		40	13	ug/L			12/04/21 04:22	20

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: EX-MW-11R
Lab Sample ID: 480-192985-4
Date Collected: 12/02/21 10:45
Matrix: Water
Date Received: 12/02/21 16:19

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/04/21 04:22*	*20*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*12/04/21 04:22*	*20*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*12/04/21 04:22*	*20*
Dibromofluoromethane (Surr)	*120*		*75 - 123*		*12/04/21 04:22*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		130	100	ug/L			12/06/21 15:08	125
1,1,2,2-Tetrachloroethane	ND		130	26	ug/L			12/06/21 15:08	125
1,1,2-Trichloroethane	ND		130	29	ug/L			12/06/21 15:08	125
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		130	39	ug/L			12/06/21 15:08	125
1,1-Dichloroethane	ND		130	48	ug/L			12/06/21 15:08	125
1,1-Dichloroethene	**52**	**J**	130	36	ug/L			12/06/21 15:08	125
1,2,4-Trichlorobenzene	ND		130	51	ug/L			12/06/21 15:08	125
1,2-Dibromo-3-Chloropropane	ND		130	49	ug/L			12/06/21 15:08	125
1,2-Dichlorobenzene	ND		130	99	ug/L			12/06/21 15:08	125
1,2-Dichloroethane	ND		130	26	ug/L			12/06/21 15:08	125
1,2-Dichloropropane	ND		130	90	ug/L			12/06/21 15:08	125
1,3-Dichlorobenzene	ND		130	98	ug/L			12/06/21 15:08	125
1,4-Dichlorobenzene	ND		130	110	ug/L			12/06/21 15:08	125
2-Butanone (MEK)	ND	*+	1300	170	ug/L			12/06/21 15:08	125
2-Hexanone	ND		630	160	ug/L			12/06/21 15:08	125
4-Methyl-2-pentanone (MIBK)	ND		630	260	ug/L			12/06/21 15:08	125
Acetone	ND	*1	1300	380	ug/L			12/06/21 15:08	125
Benzene	ND		130	51	ug/L			12/06/21 15:08	125
Bromodichloromethane	ND		130	49	ug/L			12/06/21 15:08	125
Bromoform	ND		130	33	ug/L			12/06/21 15:08	125
Bromomethane	ND		130	86	ug/L			12/06/21 15:08	125
Carbon disulfide	ND		130	24	ug/L			12/06/21 15:08	125
Carbon tetrachloride	ND		130	34	ug/L			12/06/21 15:08	125
Chlorobenzene	ND		130	94	ug/L			12/06/21 15:08	125
Dibromochloromethane	ND		130	40	ug/L			12/06/21 15:08	125
Chloroethane	ND		130	40	ug/L			12/06/21 15:08	125
Chloroform	ND		130	43	ug/L			12/06/21 15:08	125
Chloromethane	ND		130	44	ug/L			12/06/21 15:08	125
cis-1,2-Dichloroethene	**7400**		130	100	ug/L			12/06/21 15:08	125
cis-1,3-Dichloropropene	ND		130	45	ug/L			12/06/21 15:08	125
Cyclohexane	**51**	**J**	130	23	ug/L			12/06/21 15:08	125
Dichlorodifluoromethane	ND		130	85	ug/L			12/06/21 15:08	125
Ethylbenzene	ND		130	93	ug/L			12/06/21 15:08	125
1,2-Dibromoethane	ND		130	91	ug/L			12/06/21 15:08	125
Isopropylbenzene	ND		130	99	ug/L			12/06/21 15:08	125
Methyl acetate	ND		310	160	ug/L			12/06/21 15:08	125
Methyl tert-butyl ether	ND		130	20	ug/L			12/06/21 15:08	125
Methylcyclohexane	**46**	**J**	130	20	ug/L			12/06/21 15:08	125
Methylene Chloride	ND		130	55	ug/L			12/06/21 15:08	125
Styrene	ND		130	91	ug/L			12/06/21 15:08	125
Tetrachloroethene	ND		130	45	ug/L			12/06/21 15:08	125
Toluene	ND		130	64	ug/L			12/06/21 15:08	125
trans-1,2-Dichloroethene	ND		130	110	ug/L			12/06/21 15:08	125

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: EX-MW-11R
Lab Sample ID: 480-192985-4
Date Collected: 12/02/21 10:45
Matrix: Water
Date Received: 12/02/21 16:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		130	46	ug/L			12/06/21 15:08	125
Trichloroethene	**1300**		130	58	ug/L			12/06/21 15:08	125
Trichlorofluoromethane	ND		130	110	ug/L			12/06/21 15:08	125
Vinyl chloride	**1200**		130	110	ug/L			12/06/21 15:08	125
Xylenes, Total	ND		250	83	ug/L			12/06/21 15:08	125

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/06/21 15:08*	*125*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*12/06/21 15:08*	*125*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*		*12/06/21 15:08*	*125*
Dibromofluoromethane (Surr)	*122*		*75 - 123*		*12/06/21 15:08*	*125*

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-02R
Lab Sample ID: 480-192985-5
Date Collected: 12/02/21 11:40
Matrix: Water
Date Received: 12/02/21 16:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/04/21 04:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/04/21 04:44	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/04/21 04:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/04/21 04:44	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/04/21 04:44	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/04/21 04:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/04/21 04:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/04/21 04:44	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/04/21 04:44	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/04/21 04:44	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/04/21 04:44	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/04/21 04:44	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/04/21 04:44	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/04/21 04:44	1
2-Hexanone	ND		5.0	1.2	ug/L			12/04/21 04:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/04/21 04:44	1
Acetone	ND		10	3.0	ug/L			12/04/21 04:44	1
Benzene	**5.4**		1.0	0.41	ug/L			12/04/21 04:44	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/04/21 04:44	1
Bromoform	ND		1.0	0.26	ug/L			12/04/21 04:44	1
Bromomethane	ND		1.0	0.69	ug/L			12/04/21 04:44	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/04/21 04:44	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/04/21 04:44	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/04/21 04:44	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/04/21 04:44	1
Chloroethane	ND		1.0	0.32	ug/L			12/04/21 04:44	1
Chloroform	ND		1.0	0.34	ug/L			12/04/21 04:44	1
Chloromethane	ND		1.0	0.35	ug/L			12/04/21 04:44	1
cis-1,2-Dichloroethene	**5.1**		1.0	0.81	ug/L			12/04/21 04:44	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/04/21 04:44	1
Cyclohexane	**4.3**		1.0	0.18	ug/L			12/04/21 04:44	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/04/21 04:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/04/21 04:44	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/04/21 04:44	1
Isopropylbenzene	**1.2**		1.0	0.79	ug/L			12/04/21 04:44	1
Methyl acetate	ND		2.5	1.3	ug/L			12/04/21 04:44	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/04/21 04:44	1
Methylcyclohexane	**1.7**		1.0	0.16	ug/L			12/04/21 04:44	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/04/21 04:44	1
Styrene	ND		1.0	0.73	ug/L			12/04/21 04:44	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/04/21 04:44	1
Toluene	ND		1.0	0.51	ug/L			12/04/21 04:44	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/04/21 04:44	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/04/21 04:44	1
Trichloroethene	ND		1.0	0.46	ug/L			12/04/21 04:44	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/04/21 04:44	1
Vinyl chloride	**6.1**		1.0	0.90	ug/L			12/04/21 04:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/04/21 04:44	1

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-02R
Lab Sample ID: 480-192985-5
Date Collected: 12/02/21 11:40
Matrix: Water
Date Received: 12/02/21 16:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		12/04/21 04:44	1
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		12/04/21 04:44	1
4-Bromofluorobenzene (Surr)	107		73 - 120		12/04/21 04:44	1
Dibromofluoromethane (Surr)	120		75 - 123		12/04/21 04:44	1

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-07R
Lab Sample ID: 480-192985-6
Date Collected: 12/02/21 12:20
Matrix: Water
Date Received: 12/02/21 16:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			12/04/21 05:06	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			12/04/21 05:06	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			12/04/21 05:06	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			12/04/21 05:06	4
1,1-Dichloroethane	**4.0**		4.0	1.5	ug/L			12/04/21 05:06	4
1,1-Dichloroethene	**15**		4.0	1.2	ug/L			12/04/21 05:06	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			12/04/21 05:06	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			12/04/21 05:06	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			12/04/21 05:06	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			12/04/21 05:06	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			12/04/21 05:06	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			12/04/21 05:06	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			12/04/21 05:06	4
2-Butanone (MEK)	ND		40	5.3	ug/L			12/04/21 05:06	4
2-Hexanone	ND		20	5.0	ug/L			12/04/21 05:06	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			12/04/21 05:06	4
Acetone	ND		40	12	ug/L			12/04/21 05:06	4
Benzene	ND		4.0	1.6	ug/L			12/04/21 05:06	4
Bromodichloromethane	ND		4.0	1.6	ug/L			12/04/21 05:06	4
Bromoform	ND		4.0	1.0	ug/L			12/04/21 05:06	4
Bromomethane	ND		4.0	2.8	ug/L			12/04/21 05:06	4
Carbon disulfide	ND		4.0	0.76	ug/L			12/04/21 05:06	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			12/04/21 05:06	4
Chlorobenzene	ND		4.0	3.0	ug/L			12/04/21 05:06	4
Dibromochloromethane	ND		4.0	1.3	ug/L			12/04/21 05:06	4
Chloroethane	ND		4.0	1.3	ug/L			12/04/21 05:06	4
Chloroform	ND		4.0	1.4	ug/L			12/04/21 05:06	4
Chloromethane	ND		4.0	1.4	ug/L			12/04/21 05:06	4
cis-1,2-Dichloroethene	**3400**	**E**	4.0	3.2	ug/L			12/04/21 05:06	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			12/04/21 05:06	4
Cyclohexane	ND		4.0	0.72	ug/L			12/04/21 05:06	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			12/04/21 05:06	4
Ethylbenzene	ND		4.0	3.0	ug/L			12/04/21 05:06	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			12/04/21 05:06	4
Isopropylbenzene	ND		4.0	3.2	ug/L			12/04/21 05:06	4
Methyl acetate	ND		10	5.2	ug/L			12/04/21 05:06	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			12/04/21 05:06	4
Methylcyclohexane	ND		4.0	0.64	ug/L			12/04/21 05:06	4
Methylene Chloride	ND		4.0	1.8	ug/L			12/04/21 05:06	4
Styrene	ND		4.0	2.9	ug/L			12/04/21 05:06	4
Tetrachloroethene	ND		4.0	1.4	ug/L			12/04/21 05:06	4
Toluene	ND		4.0	2.0	ug/L			12/04/21 05:06	4
trans-1,2-Dichloroethene	**14**		4.0	3.6	ug/L			12/04/21 05:06	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			12/04/21 05:06	4
Trichloroethene	**120**		4.0	1.8	ug/L			12/04/21 05:06	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			12/04/21 05:06	4
Vinyl chloride	**710**	**E**	4.0	3.6	ug/L			12/04/21 05:06	4
Xylenes, Total	ND		8.0	2.6	ug/L			12/04/21 05:06	4

Client Sample ID: MW-07R
Lab Sample ID: 480-192985-6
Date Collected: 12/02/21 12:20
Matrix: Water
Date Received: 12/02/21 16:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*105*		*80 - 120*		*12/04/21 05:06*	*4*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*12/04/21 05:06*	*4*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*		*12/04/21 05:06*	*4*
Dibromofluoromethane (Surr)	*118*		*75 - 123*		*12/04/21 05:06*	*4*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		80	66	ug/L			12/06/21 15:30	80
1,1,2,2-Tetrachloroethane	ND		80	17	ug/L			12/06/21 15:30	80
1,1,2-Trichloroethane	ND		80	18	ug/L			12/06/21 15:30	80
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		80	25	ug/L			12/06/21 15:30	80
1,1-Dichloroethane	ND		80	30	ug/L			12/06/21 15:30	80
1,1-Dichloroethene	ND		80	23	ug/L			12/06/21 15:30	80
1,2,4-Trichlorobenzene	ND		80	33	ug/L			12/06/21 15:30	80
1,2-Dibromo-3-Chloropropane	ND		80	31	ug/L			12/06/21 15:30	80
1,2-Dichlorobenzene	ND		80	63	ug/L			12/06/21 15:30	80
1,2-Dichloroethane	ND		80	17	ug/L			12/06/21 15:30	80
1,2-Dichloropropane	ND		80	58	ug/L			12/06/21 15:30	80
1,3-Dichlorobenzene	ND		80	62	ug/L			12/06/21 15:30	80
1,4-Dichlorobenzene	ND		80	67	ug/L			12/06/21 15:30	80
2-Butanone (MEK)	ND	*+	800	110	ug/L			12/06/21 15:30	80
2-Hexanone	ND		400	99	ug/L			12/06/21 15:30	80
4-Methyl-2-pentanone (MIBK)	ND		400	170	ug/L			12/06/21 15:30	80
Acetone	ND	*1	800	240	ug/L			12/06/21 15:30	80
Benzene	ND		80	33	ug/L			12/06/21 15:30	80
Bromodichloromethane	ND		80	31	ug/L			12/06/21 15:30	80
Bromoform	ND		80	21	ug/L			12/06/21 15:30	80
Bromomethane	ND		80	55	ug/L			12/06/21 15:30	80
Carbon disulfide	ND		80	15	ug/L			12/06/21 15:30	80
Carbon tetrachloride	ND		80	22	ug/L			12/06/21 15:30	80
Chlorobenzene	ND		80	60	ug/L			12/06/21 15:30	80
Dibromochloromethane	ND		80	26	ug/L			12/06/21 15:30	80
Chloroethane	ND		80	26	ug/L			12/06/21 15:30	80
Chloroform	ND		80	27	ug/L			12/06/21 15:30	80
Chloromethane	ND		80	28	ug/L			12/06/21 15:30	80
cis-1,2-Dichloroethene	**3600**		80	65	ug/L			12/06/21 15:30	80
cis-1,3-Dichloropropene	ND		80	29	ug/L			12/06/21 15:30	80
Cyclohexane	ND		80	14	ug/L			12/06/21 15:30	80
Dichlorodifluoromethane	ND		80	54	ug/L			12/06/21 15:30	80
Ethylbenzene	ND		80	59	ug/L			12/06/21 15:30	80
1,2-Dibromoethane	ND		80	58	ug/L			12/06/21 15:30	80
Isopropylbenzene	ND		80	63	ug/L			12/06/21 15:30	80
Methyl acetate	ND		200	100	ug/L			12/06/21 15:30	80
Methyl tert-butyl ether	ND		80	13	ug/L			12/06/21 15:30	80
Methylcyclohexane	ND		80	13	ug/L			12/06/21 15:30	80
Methylene Chloride	ND		80	35	ug/L			12/06/21 15:30	80
Styrene	ND		80	58	ug/L			12/06/21 15:30	80
Tetrachloroethene	ND		80	29	ug/L			12/06/21 15:30	80
Toluene	ND		80	41	ug/L			12/06/21 15:30	80
trans-1,2-Dichloroethene	ND		80	72	ug/L			12/06/21 15:30	80

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-07R
Lab Sample ID: 480-192985-6
Date Collected: 12/02/21 12:20
Matrix: Water
Date Received: 12/02/21 16:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		80	30	ug/L			12/06/21 15:30	80
Trichloroethene	**120**		80	37	ug/L			12/06/21 15:30	80
Trichlorofluoromethane	ND		80	70	ug/L			12/06/21 15:30	80
Vinyl chloride	**740**		80	72	ug/L			12/06/21 15:30	80
Xylenes, Total	ND		160	53	ug/L			12/06/21 15:30	80

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/06/21 15:30*	*80*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*12/06/21 15:30*	*80*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*		*12/06/21 15:30*	*80*
Dibromofluoromethane (Surr)	*118*		*75 - 123*		*12/06/21 15:30*	*80*

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-04
Lab Sample ID: 480-192985-7
Date Collected: 12/02/21 13:05
Matrix: Water
Date Received: 12/02/21 16:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/06/21 15:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/06/21 15:51	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/06/21 15:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/06/21 15:51	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/06/21 15:51	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/06/21 15:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/06/21 15:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/06/21 15:51	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/06/21 15:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/06/21 15:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/06/21 15:51	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/06/21 15:51	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/06/21 15:51	1
2-Butanone (MEK)	ND	*+	10	1.3	ug/L			12/06/21 15:51	1
2-Hexanone	ND		5.0	1.2	ug/L			12/06/21 15:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/06/21 15:51	1
Acetone	ND	*1	10	3.0	ug/L			12/06/21 15:51	1
Benzene	ND		1.0	0.41	ug/L			12/06/21 15:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/06/21 15:51	1
Bromoform	ND		1.0	0.26	ug/L			12/06/21 15:51	1
Bromomethane	ND		1.0	0.69	ug/L			12/06/21 15:51	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/06/21 15:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/06/21 15:51	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/06/21 15:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/06/21 15:51	1
Chloroethane	ND		1.0	0.32	ug/L			12/06/21 15:51	1
Chloroform	ND		1.0	0.34	ug/L			12/06/21 15:51	1
Chloromethane	ND		1.0	0.35	ug/L			12/06/21 15:51	1
cis-1,2-Dichloroethene	**1.3**		1.0	0.81	ug/L			12/06/21 15:51	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/06/21 15:51	1
Cyclohexane	ND		1.0	0.18	ug/L			12/06/21 15:51	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/06/21 15:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/06/21 15:51	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/06/21 15:51	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/06/21 15:51	1
Methyl acetate	ND		2.5	1.3	ug/L			12/06/21 15:51	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/06/21 15:51	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/06/21 15:51	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/06/21 15:51	1
Styrene	ND		1.0	0.73	ug/L			12/06/21 15:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/06/21 15:51	1
Toluene	ND		1.0	0.51	ug/L			12/06/21 15:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/06/21 15:51	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/06/21 15:51	1
Trichloroethene	ND		1.0	0.46	ug/L			12/06/21 15:51	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/06/21 15:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/06/21 15:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/06/21 15:51	1

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-04
Lab Sample ID: 480-192985-7
Date Collected: 12/02/21 13:05
Matrix: Water
Date Received: 12/02/21 16:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		12/06/21 15:51	1
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		12/06/21 15:51	1
4-Bromofluorobenzene (Surr)	112		73 - 120		12/06/21 15:51	1
Dibromofluoromethane (Surr)	123		75 - 123		12/06/21 15:51	1

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: EX-MW-12
Lab Sample ID: 480-192985-8
Date Collected: 12/02/21 13:50
Matrix: Water
Date Received: 12/02/21 16:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/06/21 16:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/06/21 16:13	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/06/21 16:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/06/21 16:13	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/06/21 16:13	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/06/21 16:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/06/21 16:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/06/21 16:13	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/06/21 16:13	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/06/21 16:13	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/06/21 16:13	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/06/21 16:13	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/06/21 16:13	1
2-Butanone (MEK)	ND	*+	10	1.3	ug/L			12/06/21 16:13	1
2-Hexanone	ND		5.0	1.2	ug/L			12/06/21 16:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/06/21 16:13	1
Acetone	ND	*1	10	3.0	ug/L			12/06/21 16:13	1
Benzene	ND		1.0	0.41	ug/L			12/06/21 16:13	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/06/21 16:13	1
Bromoform	ND		1.0	0.26	ug/L			12/06/21 16:13	1
Bromomethane	ND		1.0	0.69	ug/L			12/06/21 16:13	1
Carbon disulfide	**1.1**		1.0	0.19	ug/L			12/06/21 16:13	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/06/21 16:13	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/06/21 16:13	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/06/21 16:13	1
Chloroethane	ND		1.0	0.32	ug/L			12/06/21 16:13	1
Chloroform	ND		1.0	0.34	ug/L			12/06/21 16:13	1
Chloromethane	ND		1.0	0.35	ug/L			12/06/21 16:13	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/06/21 16:13	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/06/21 16:13	1
Cyclohexane	ND		1.0	0.18	ug/L			12/06/21 16:13	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/06/21 16:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/06/21 16:13	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/06/21 16:13	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/06/21 16:13	1
Methyl acetate	ND		2.5	1.3	ug/L			12/06/21 16:13	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/06/21 16:13	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/06/21 16:13	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/06/21 16:13	1
Styrene	ND		1.0	0.73	ug/L			12/06/21 16:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/06/21 16:13	1
Toluene	ND		1.0	0.51	ug/L			12/06/21 16:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/06/21 16:13	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/06/21 16:13	1
Trichloroethene	ND		1.0	0.46	ug/L			12/06/21 16:13	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/06/21 16:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/06/21 16:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/06/21 16:13	1

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: EX-MW-12
Lab Sample ID: 480-192985-8
Date Collected: 12/02/21 13:50
Matrix: Water
Date Received: 12/02/21 16:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		12/06/21 16:13	1
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		12/06/21 16:13	1
4-Bromofluorobenzene (Surr)	110		73 - 120		12/06/21 16:13	1
Dibromofluoromethane (Surr)	123		75 - 123		12/06/21 16:13	1

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-09R
Lab Sample ID: 480-192985-9
Date Collected: 12/02/21 14:55
Matrix: Water
Date Received: 12/02/21 16:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/06/21 16:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/06/21 16:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/06/21 16:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/06/21 16:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/06/21 16:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/06/21 16:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/06/21 16:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/06/21 16:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/06/21 16:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/06/21 16:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/06/21 16:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/06/21 16:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/06/21 16:35	1
2-Butanone (MEK)	ND	*+	10	1.3	ug/L			12/06/21 16:35	1
2-Hexanone	ND		5.0	1.2	ug/L			12/06/21 16:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/06/21 16:35	1
Acetone	ND	*1	10	3.0	ug/L			12/06/21 16:35	1
Benzene	**13**		1.0	0.41	ug/L			12/06/21 16:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/06/21 16:35	1
Bromoform	ND		1.0	0.26	ug/L			12/06/21 16:35	1
Bromomethane	ND		1.0	0.69	ug/L			12/06/21 16:35	1
Carbon disulfide	**0.57**	**J**	1.0	0.19	ug/L			12/06/21 16:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/06/21 16:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/06/21 16:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/06/21 16:35	1
Chloroethane	ND		1.0	0.32	ug/L			12/06/21 16:35	1
Chloroform	ND		1.0	0.34	ug/L			12/06/21 16:35	1
Chloromethane	ND		1.0	0.35	ug/L			12/06/21 16:35	1
cis-1,2-Dichloroethene	**4.3**		1.0	0.81	ug/L			12/06/21 16:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/06/21 16:35	1
Cyclohexane	**28**		1.0	0.18	ug/L			12/06/21 16:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/06/21 16:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/06/21 16:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/06/21 16:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/06/21 16:35	1
Methyl acetate	ND		2.5	1.3	ug/L			12/06/21 16:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/06/21 16:35	1
Methylcyclohexane	**9.4**		1.0	0.16	ug/L			12/06/21 16:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/06/21 16:35	1
Styrene	ND		1.0	0.73	ug/L			12/06/21 16:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/06/21 16:35	1
Toluene	ND		1.0	0.51	ug/L			12/06/21 16:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/06/21 16:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/06/21 16:35	1
Trichloroethene	ND		1.0	0.46	ug/L			12/06/21 16:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/06/21 16:35	1
Vinyl chloride	**17**		1.0	0.90	ug/L			12/06/21 16:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/06/21 16:35	1

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-09R
Lab Sample ID: 480-192985-9
Date Collected: 12/02/21 14:55
Matrix: Water
Date Received: 12/02/21 16:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		12/06/21 16:35	1
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		12/06/21 16:35	1
4-Bromofluorobenzene (Surr)	109		73 - 120		12/06/21 16:35	1
Dibromofluoromethane (Surr)	122		75 - 123		12/06/21 16:35	1

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: DUP
Lab Sample ID: 480-192985-10
Date Collected: 12/02/21 00:00
Matrix: Water
Date Received: 12/02/21 16:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			12/04/21 06:34	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			12/04/21 06:34	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			12/04/21 06:34	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			12/04/21 06:34	20
1,1-Dichloroethane	ND		20	7.6	ug/L			12/04/21 06:34	20
1,1-Dichloroethene	**62**		20	5.8	ug/L			12/04/21 06:34	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			12/04/21 06:34	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			12/04/21 06:34	20
1,2-Dichlorobenzene	ND		20	16	ug/L			12/04/21 06:34	20
1,2-Dichloroethane	ND		20	4.2	ug/L			12/04/21 06:34	20
1,2-Dichloropropane	ND		20	14	ug/L			12/04/21 06:34	20
1,3-Dichlorobenzene	ND		20	16	ug/L			12/04/21 06:34	20
1,4-Dichlorobenzene	ND		20	17	ug/L			12/04/21 06:34	20
2-Butanone (MEK)	ND		200	26	ug/L			12/04/21 06:34	20
2-Hexanone	ND		100	25	ug/L			12/04/21 06:34	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			12/04/21 06:34	20
Acetone	ND		200	60	ug/L			12/04/21 06:34	20
Benzene	ND		20	8.2	ug/L			12/04/21 06:34	20
Bromodichloromethane	ND		20	7.8	ug/L			12/04/21 06:34	20
Bromoform	ND		20	5.2	ug/L			12/04/21 06:34	20
Bromomethane	ND		20	14	ug/L			12/04/21 06:34	20
Carbon disulfide	ND		20	3.8	ug/L			12/04/21 06:34	20
Carbon tetrachloride	ND		20	5.4	ug/L			12/04/21 06:34	20
Chlorobenzene	ND		20	15	ug/L			12/04/21 06:34	20
Dibromochloromethane	ND		20	6.4	ug/L			12/04/21 06:34	20
Chloroethane	ND		20	6.4	ug/L			12/04/21 06:34	20
Chloroform	ND		20	6.8	ug/L			12/04/21 06:34	20
Chloromethane	ND		20	7.0	ug/L			12/04/21 06:34	20
cis-1,2-Dichloroethene	**7700**	**E**	20	16	ug/L			12/04/21 06:34	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			12/04/21 06:34	20
Cyclohexane	**37**		20	3.6	ug/L			12/04/21 06:34	20
Dichlorodifluoromethane	ND		20	14	ug/L			12/04/21 06:34	20
Ethylbenzene	ND		20	15	ug/L			12/04/21 06:34	20
1,2-Dibromoethane	ND		20	15	ug/L			12/04/21 06:34	20
Isopropylbenzene	ND		20	16	ug/L			12/04/21 06:34	20
Methyl acetate	ND		50	26	ug/L			12/04/21 06:34	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			12/04/21 06:34	20
Methylcyclohexane	**37**		20	3.2	ug/L			12/04/21 06:34	20
Methylene Chloride	ND		20	8.8	ug/L			12/04/21 06:34	20
Styrene	ND		20	15	ug/L			12/04/21 06:34	20
Tetrachloroethene	ND		20	7.2	ug/L			12/04/21 06:34	20
Toluene	ND		20	10	ug/L			12/04/21 06:34	20
trans-1,2-Dichloroethene	**36**		20	18	ug/L			12/04/21 06:34	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			12/04/21 06:34	20
Trichloroethene	**1400**		20	9.2	ug/L			12/04/21 06:34	20
Trichlorofluoromethane	ND		20	18	ug/L			12/04/21 06:34	20
Vinyl chloride	**1300**		20	18	ug/L			12/04/21 06:34	20
Xylenes, Total	ND		40	13	ug/L			12/04/21 06:34	20

Client Sample ID: DUP
Lab Sample ID: 480-192985-10
Date Collected: 12/02/21 00:00
Matrix: Water
Date Received: 12/02/21 16:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*103*		*80 - 120*		*12/04/21 06:34*	*20*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*12/04/21 06:34*	*20*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*12/04/21 06:34*	*20*
Dibromofluoromethane (Surr)	*120*		*75 - 123*		*12/04/21 06:34*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		200	160	ug/L			12/06/21 16:57	200
1,1,2,2-Tetrachloroethane	ND		200	42	ug/L			12/06/21 16:57	200
1,1,2-Trichloroethane	ND		200	46	ug/L			12/06/21 16:57	200
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		200	62	ug/L			12/06/21 16:57	200
1,1-Dichloroethane	ND		200	76	ug/L			12/06/21 16:57	200
1,1-Dichloroethene	ND		200	58	ug/L			12/06/21 16:57	200
1,2,4-Trichlorobenzene	ND		200	82	ug/L			12/06/21 16:57	200
1,2-Dibromo-3-Chloropropane	ND		200	78	ug/L			12/06/21 16:57	200
1,2-Dichlorobenzene	ND		200	160	ug/L			12/06/21 16:57	200
1,2-Dichloroethane	ND		200	42	ug/L			12/06/21 16:57	200
1,2-Dichloropropane	ND		200	140	ug/L			12/06/21 16:57	200
1,3-Dichlorobenzene	ND		200	160	ug/L			12/06/21 16:57	200
1,4-Dichlorobenzene	ND		200	170	ug/L			12/06/21 16:57	200
2-Butanone (MEK)	ND	*+	2000	260	ug/L			12/06/21 16:57	200
2-Hexanone	ND		1000	250	ug/L			12/06/21 16:57	200
4-Methyl-2-pentanone (MIBK)	ND		1000	420	ug/L			12/06/21 16:57	200
Acetone	ND	*1	2000	600	ug/L			12/06/21 16:57	200
Benzene	ND		200	82	ug/L			12/06/21 16:57	200
Bromodichloromethane	ND		200	78	ug/L			12/06/21 16:57	200
Bromoform	ND		200	52	ug/L			12/06/21 16:57	200
Bromomethane	ND		200	140	ug/L			12/06/21 16:57	200
Carbon disulfide	**740**		200	38	ug/L			12/06/21 16:57	200
Carbon tetrachloride	ND		200	54	ug/L			12/06/21 16:57	200
Chlorobenzene	ND		200	150	ug/L			12/06/21 16:57	200
Dibromochloromethane	ND		200	64	ug/L			12/06/21 16:57	200
Chloroethane	ND		200	64	ug/L			12/06/21 16:57	200
Chloroform	ND		200	68	ug/L			12/06/21 16:57	200
Chloromethane	ND		200	70	ug/L			12/06/21 16:57	200
cis-1,2-Dichloroethene	**7800**		200	160	ug/L			12/06/21 16:57	200
cis-1,3-Dichloropropene	ND		200	72	ug/L			12/06/21 16:57	200
Cyclohexane	ND		200	36	ug/L			12/06/21 16:57	200
Dichlorodifluoromethane	ND		200	140	ug/L			12/06/21 16:57	200
Ethylbenzene	ND		200	150	ug/L			12/06/21 16:57	200
1,2-Dibromoethane	ND		200	150	ug/L			12/06/21 16:57	200
Isopropylbenzene	ND		200	160	ug/L			12/06/21 16:57	200
Methyl acetate	ND		500	260	ug/L			12/06/21 16:57	200
Methyl tert-butyl ether	ND		200	32	ug/L			12/06/21 16:57	200
Methylcyclohexane	ND		200	32	ug/L			12/06/21 16:57	200
Methylene Chloride	ND		200	88	ug/L			12/06/21 16:57	200
Styrene	ND		200	150	ug/L			12/06/21 16:57	200
Tetrachloroethene	ND		200	72	ug/L			12/06/21 16:57	200
Toluene	ND		200	100	ug/L			12/06/21 16:57	200
trans-1,2-Dichloroethene	ND		200	180	ug/L			12/06/21 16:57	200

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: DUP
Lab Sample ID: 480-192985-10
Date Collected: 12/02/21 00:00
Matrix: Water
Date Received: 12/02/21 16:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		200	74	ug/L			12/06/21 16:57	200
Trichloroethene	**1400**		200	92	ug/L			12/06/21 16:57	200
Trichlorofluoromethane	ND		200	180	ug/L			12/06/21 16:57	200
Vinyl chloride	**1300**		200	180	ug/L			12/06/21 16:57	200
Xylenes, Total	ND		400	130	ug/L			12/06/21 16:57	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*12/06/21 16:57*	*200*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*12/06/21 16:57*	*200*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*12/06/21 16:57*	*200*
Dibromofluoromethane (Surr)	*120*		*75 - 123*		*12/06/21 16:57*	*200*

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-192985-11
Date Collected: 12/02/21 00:00
Matrix: Water
Date Received: 12/02/21 16:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/04/21 06:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/04/21 06:56	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/04/21 06:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/04/21 06:56	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/04/21 06:56	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/04/21 06:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/04/21 06:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/04/21 06:56	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/04/21 06:56	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/04/21 06:56	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/04/21 06:56	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/04/21 06:56	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/04/21 06:56	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/04/21 06:56	1
2-Hexanone	ND		5.0	1.2	ug/L			12/04/21 06:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/04/21 06:56	1
Acetone	**3.8**	**J**	10	3.0	ug/L			12/04/21 06:56	1
Benzene	ND		1.0	0.41	ug/L			12/04/21 06:56	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/04/21 06:56	1
Bromoform	ND		1.0	0.26	ug/L			12/04/21 06:56	1
Bromomethane	ND		1.0	0.69	ug/L			12/04/21 06:56	1
Carbon disulfide	**0.67**	**J**	1.0	0.19	ug/L			12/04/21 06:56	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/04/21 06:56	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/04/21 06:56	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/04/21 06:56	1
Chloroethane	ND		1.0	0.32	ug/L			12/04/21 06:56	1
Chloroform	ND		1.0	0.34	ug/L			12/04/21 06:56	1
Chloromethane	ND		1.0	0.35	ug/L			12/04/21 06:56	1
cis-1,2-Dichloroethene	**3.0**		1.0	0.81	ug/L			12/04/21 06:56	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/04/21 06:56	1
Cyclohexane	ND		1.0	0.18	ug/L			12/04/21 06:56	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/04/21 06:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/04/21 06:56	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/04/21 06:56	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/04/21 06:56	1
Methyl acetate	ND		2.5	1.3	ug/L			12/04/21 06:56	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/04/21 06:56	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/04/21 06:56	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/04/21 06:56	1
Styrene	ND		1.0	0.73	ug/L			12/04/21 06:56	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/04/21 06:56	1
Toluene	ND		1.0	0.51	ug/L			12/04/21 06:56	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/04/21 06:56	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/04/21 06:56	1
Trichloroethene	ND		1.0	0.46	ug/L			12/04/21 06:56	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/04/21 06:56	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/04/21 06:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/04/21 06:56	1

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-192985-11
Date Collected: 12/02/21 00:00
Matrix: Water
Date Received: 12/02/21 16:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		12/04/21 06:56	1
1,2-Dichloroethane-d4 (Surr)	115		77 - 120		12/04/21 06:56	1
4-Bromofluorobenzene (Surr)	109		73 - 120		12/04/21 06:56	1
Dibromofluoromethane (Surr)	105		75 - 123		12/04/21 06:56	1

Surrogate Summary

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-192985-1	AL-2	101	114	110	122
480-192985-2	AL-1	99	118	106	116
480-192985-3	AL-7	100	111	109	120
480-192985-4	EX-MW-11R	101	112	108	120
480-192985-4 - DL	EX-MW-11R	102	111	111	122
480-192985-5	MW-02R	100	110	107	120
480-192985-6	MW-07R	105	108	112	118
480-192985-6 - DL	MW-07R	102	104	111	118
480-192985-7	MW-04	103	106	112	123
480-192985-8	EX-MW-12	99	108	110	123
480-192985-9	MW-09R	104	114	109	122
480-192985-10	DUP	103	107	107	120
480-192985-10 - DL	DUP	103	110	110	120
480-192985-11	TRIP BLANK	102	115	109	105
LCS 480-607540/6	Lab Control Sample	101	107	110	115
LCS 480-607644/5	Lab Control Sample	103	113	109	117
LCSD 480-607644/6	Lab Control Sample Dup	102	116	110	119
MB 480-607540/9	Method Blank	106	109	110	120
MB 480-607644/9	Method Blank	105	111	111	119

Surrogate Legend

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

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

Lab Sample ID: MB 480-607540/9
Matrix: Water
Analysis Batch: 607540

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/03/21 23:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/21 23:37	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/21 23:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/21 23:37	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/21 23:37	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/21 23:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/21 23:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/21 23:37	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/21 23:37	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/21 23:37	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/21 23:37	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/21 23:37	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/21 23:37	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/21 23:37	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/21 23:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/21 23:37	1
Acetone	ND		10	3.0	ug/L			12/03/21 23:37	1
Benzene	ND		1.0	0.41	ug/L			12/03/21 23:37	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/03/21 23:37	1
Bromoform	ND		1.0	0.26	ug/L			12/03/21 23:37	1
Bromomethane	ND		1.0	0.69	ug/L			12/03/21 23:37	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/21 23:37	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/21 23:37	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/03/21 23:37	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/21 23:37	1
Chloroethane	ND		1.0	0.32	ug/L			12/03/21 23:37	1
Chloroform	ND		1.0	0.34	ug/L			12/03/21 23:37	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/21 23:37	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/21 23:37	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/21 23:37	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/21 23:37	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/21 23:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/21 23:37	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/21 23:37	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/21 23:37	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/21 23:37	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/21 23:37	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/21 23:37	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/21 23:37	1
Styrene	ND		1.0	0.73	ug/L			12/03/21 23:37	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/21 23:37	1
Toluene	ND		1.0	0.51	ug/L			12/03/21 23:37	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/21 23:37	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/21 23:37	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/21 23:37	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/21 23:37	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/21 23:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/21 23:37	1

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

Lab Sample ID: MB 480-607540/9
Matrix: Water
Analysis Batch: 607540

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*106*		*80 - 120*		*12/03/21 23:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*12/03/21 23:37*	*1*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*12/03/21 23:37*	*1*
Dibromofluoromethane (Surr)	*120*		*75 - 123*		*12/03/21 23:37*	*1*

Lab Sample ID: LCS 480-607540/6
Matrix: Water
Analysis Batch: 607540

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	29.4		ug/L		117	73 - 126
1,1,2,2-Tetrachloroethane	25.0	20.3		ug/L		81	76 - 120
1,1,2-Trichloroethane	25.0	22.9		ug/L		91	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.1		ug/L		104	61 - 148
1,1-Dichloroethane	25.0	24.2		ug/L		97	77 - 120
1,1-Dichloroethene	25.0	24.1		ug/L		96	66 - 127
1,2,4-Trichlorobenzene	25.0	23.6		ug/L		94	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	20.7		ug/L		83	56 - 134
1,2-Dichlorobenzene	25.0	23.8		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	26.0		ug/L		104	75 - 120
1,2-Dichloropropane	25.0	22.9		ug/L		92	76 - 120
1,3-Dichlorobenzene	25.0	23.9		ug/L		96	77 - 120
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 120
2-Butanone (MEK)	125	100		ug/L		80	57 - 140
2-Hexanone	125	106		ug/L		85	65 - 127
4-Methyl-2-pentanone (MIBK)	125	103		ug/L		83	71 - 125
Acetone	125	101		ug/L		81	56 - 142
Benzene	25.0	23.1		ug/L		93	71 - 124
Bromodichloromethane	25.0	27.0		ug/L		108	80 - 122
Bromoform	25.0	27.9		ug/L		112	61 - 132
Bromomethane	25.0	30.2		ug/L		121	55 - 144
Carbon disulfide	25.0	21.2		ug/L		85	59 - 134
Carbon tetrachloride	25.0	31.2		ug/L		125	72 - 134
Chlorobenzene	25.0	24.6		ug/L		99	80 - 120
Dibromochloromethane	25.0	27.9		ug/L		112	75 - 125
Chloroethane	25.0	26.5		ug/L		106	69 - 136
Chloroform	25.0	25.1		ug/L		100	73 - 127
Chloromethane	25.0	22.6		ug/L		90	68 - 124
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	74 - 124
cis-1,3-Dichloropropene	25.0	23.7		ug/L		95	74 - 124
Cyclohexane	25.0	23.3		ug/L		93	59 - 135
Dichlorodifluoromethane	25.0	31.9		ug/L		128	59 - 135
Ethylbenzene	25.0	24.4		ug/L		97	77 - 123
1,2-Dibromoethane	25.0	24.9		ug/L		100	77 - 120
Isopropylbenzene	25.0	23.1		ug/L		92	77 - 122
Methyl acetate	50.0	41.3		ug/L		83	74 - 133
Methyl tert-butyl ether	25.0	24.2		ug/L		97	77 - 120
Methylcyclohexane	25.0	24.8		ug/L		99	68 - 134

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

Lab Sample ID: LCS 480-607540/6
Matrix: Water
Analysis Batch: 607540

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	23.2		ug/L		93	75 - 124
Styrene	25.0	24.8		ug/L		99	80 - 120
Tetrachloroethene	25.0	27.0		ug/L		108	74 - 122
Toluene	25.0	23.0		ug/L		92	80 - 122
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	73 - 127
trans-1,3-Dichloropropene	25.0	22.9		ug/L		92	80 - 120
Trichloroethene	25.0	26.2		ug/L		105	74 - 123
Trichlorofluoromethane	25.0	37.3		ug/L		149	62 - 150
Vinyl chloride	25.0	25.4		ug/L		102	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*
Dibromofluoromethane (Surr)	*115*		*75 - 123*

Lab Sample ID: MB 480-607644/9
Matrix: Water
Analysis Batch: 607644

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/06/21 12:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/06/21 12:40	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/06/21 12:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/06/21 12:40	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/06/21 12:40	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/06/21 12:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/06/21 12:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/06/21 12:40	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/06/21 12:40	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/06/21 12:40	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/06/21 12:40	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/06/21 12:40	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/06/21 12:40	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/06/21 12:40	1
2-Hexanone	ND		5.0	1.2	ug/L			12/06/21 12:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/06/21 12:40	1
Acetone	ND		10	3.0	ug/L			12/06/21 12:40	1
Benzene	ND		1.0	0.41	ug/L			12/06/21 12:40	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/06/21 12:40	1
Bromoform	ND		1.0	0.26	ug/L			12/06/21 12:40	1
Bromomethane	ND		1.0	0.69	ug/L			12/06/21 12:40	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/06/21 12:40	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/06/21 12:40	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/06/21 12:40	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/06/21 12:40	1
Chloroethane	ND		1.0	0.32	ug/L			12/06/21 12:40	1
Chloroform	ND		1.0	0.34	ug/L			12/06/21 12:40	1

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

Lab Sample ID: MB 480-607644/9
Matrix: Water
Analysis Batch: 607644

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			12/06/21 12:40	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/06/21 12:40	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/06/21 12:40	1
Cyclohexane	ND		1.0	0.18	ug/L			12/06/21 12:40	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/06/21 12:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/06/21 12:40	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/06/21 12:40	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/06/21 12:40	1
Methyl acetate	ND		2.5	1.3	ug/L			12/06/21 12:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/06/21 12:40	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/06/21 12:40	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/06/21 12:40	1
Styrene	ND		1.0	0.73	ug/L			12/06/21 12:40	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/06/21 12:40	1
Toluene	ND		1.0	0.51	ug/L			12/06/21 12:40	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/06/21 12:40	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/06/21 12:40	1
Trichloroethene	ND		1.0	0.46	ug/L			12/06/21 12:40	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/06/21 12:40	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/06/21 12:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/06/21 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*12/06/21 12:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*12/06/21 12:40*	*1*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*		*12/06/21 12:40*	*1*
Dibromofluoromethane (Surr)	*119*		*75 - 123*		*12/06/21 12:40*	*1*

Lab Sample ID: LCS 480-607644/5
Matrix: Water
Analysis Batch: 607644

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	28.2		ug/L		113	73 - 126
1,1,2,2-Tetrachloroethane	25.0	19.9		ug/L		79	76 - 120
1,1,2-Trichloroethane	25.0	21.8		ug/L		87	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.6		ug/L		102	61 - 148
1,1-Dichloroethane	25.0	24.4		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	23.5		ug/L		94	66 - 127
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	20.4		ug/L		82	56 - 134
1,2-Dichlorobenzene	25.0	23.5		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	25.6		ug/L		102	75 - 120
1,2-Dichloropropane	25.0	22.1		ug/L		88	76 - 120
1,3-Dichlorobenzene	25.0	23.0		ug/L		92	77 - 120
1,4-Dichlorobenzene	25.0	22.6		ug/L		90	80 - 120
2-Butanone (MEK)	125	180	*+	ug/L		144	57 - 140
2-Hexanone	125	88.7		ug/L		71	65 - 127

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

Lab Sample ID: LCS 480-607644/5
Matrix: Water
Analysis Batch: 607644

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	125	99.4		ug/L		80	71 - 125
Acetone	125	109		ug/L		87	56 - 142
Benzene	25.0	22.4		ug/L		90	71 - 124
Bromodichloromethane	25.0	26.1		ug/L		104	80 - 122
Bromoform	25.0	27.3		ug/L		109	61 - 132
Bromomethane	25.0	29.8		ug/L		119	55 - 144
Carbon disulfide	25.0	20.5		ug/L		82	59 - 134
Carbon tetrachloride	25.0	30.7		ug/L		123	72 - 134
Chlorobenzene	25.0	23.9		ug/L		95	80 - 120
Dibromochloromethane	25.0	26.9		ug/L		108	75 - 125
Chloroethane	25.0	24.5		ug/L		98	69 - 136
Chloroform	25.0	24.5		ug/L		98	73 - 127
Chloromethane	25.0	20.8		ug/L		83	68 - 124
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	74 - 124
cis-1,3-Dichloropropene	25.0	22.5		ug/L		90	74 - 124
Cyclohexane	25.0	22.3		ug/L		89	59 - 135
Dichlorodifluoromethane	25.0	29.2		ug/L		117	59 - 135
Ethylbenzene	25.0	23.5		ug/L		94	77 - 123
1,2-Dibromoethane	25.0	22.8		ug/L		91	77 - 120
Isopropylbenzene	25.0	22.9		ug/L		92	77 - 122
Methyl acetate	50.0	42.7		ug/L		85	74 - 133
Methyl tert-butyl ether	25.0	25.0		ug/L		100	77 - 120
Methylcyclohexane	25.0	24.4		ug/L		98	68 - 134
Methylene Chloride	25.0	23.3		ug/L		93	75 - 124
Styrene	25.0	23.5		ug/L		94	80 - 120
Tetrachloroethene	25.0	27.8		ug/L		111	74 - 122
Toluene	25.0	22.4		ug/L		90	80 - 122
trans-1,2-Dichloroethene	25.0	24.7		ug/L		99	73 - 127
trans-1,3-Dichloropropene	25.0	22.0		ug/L		88	80 - 120
Trichloroethene	25.0	24.7		ug/L		99	74 - 123
Trichlorofluoromethane	25.0	34.5		ug/L		138	62 - 150
Vinyl chloride	25.0	23.5		ug/L		94	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*
Dibromofluoromethane (Surr)	*117*		*75 - 123*

Lab Sample ID: LCSD 480-607644/6
Matrix: Water
Analysis Batch: 607644

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	25.0	29.6		ug/L		118	73 - 126	5	15
1,1,2,2-Tetrachloroethane	25.0	20.1		ug/L		80	76 - 120	1	15
1,1,2-Trichloroethane	25.0	22.3		ug/L		89	76 - 122	2	15
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	26.9		ug/L		108	61 - 148	5	20

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

Lab Sample ID: LCSD 480-607644/6
Matrix: Water
Analysis Batch: 607644

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	25.0	25.5		ug/L		102	77 - 120	4	20
1,1-Dichloroethene	25.0	24.6		ug/L		99	66 - 127	5	16
1,2,4-Trichlorobenzene	25.0	25.7		ug/L		103	79 - 122	6	20
1,2-Dibromo-3-Chloropropane	25.0	21.1		ug/L		84	56 - 134	3	15
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	80 - 124	4	20
1,2-Dichloroethane	25.0	26.2		ug/L		105	75 - 120	2	20
1,2-Dichloropropane	25.0	22.9		ug/L		91	76 - 120	4	20
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	77 - 120	3	20
1,4-Dichlorobenzene	25.0	23.5		ug/L		94	80 - 120	4	20
2-Butanone (MEK)	125	183	*+	ug/L		146	57 - 140	1	20
2-Hexanone	125	94.8		ug/L		76	65 - 127	7	15
4-Methyl-2-pentanone (MIBK)	125	102		ug/L		82	71 - 125	2	35
Acetone	125	136	*1	ug/L		108	56 - 142	22	15
Benzene	25.0	23.5		ug/L		94	71 - 124	4	13
Bromodichloromethane	25.0	27.0		ug/L		108	80 - 122	3	15
Bromoform	25.0	28.2		ug/L		113	61 - 132	3	15
Bromomethane	25.0	30.7		ug/L		123	55 - 144	3	15
Carbon disulfide	25.0	21.8		ug/L		87	59 - 134	6	15
Carbon tetrachloride	25.0	32.5		ug/L		130	72 - 134	6	15
Chlorobenzene	25.0	24.7		ug/L		99	80 - 120	4	25
Dibromochloromethane	25.0	27.9		ug/L		111	75 - 125	3	15
Chloroethane	25.0	25.8		ug/L		103	69 - 136	5	15
Chloroform	25.0	25.7		ug/L		103	73 - 127	5	20
Chloromethane	25.0	21.5		ug/L		86	68 - 124	4	15
cis-1,2-Dichloroethene	25.0	26.2		ug/L		105	74 - 124	5	15
cis-1,3-Dichloropropene	25.0	23.5		ug/L		94	74 - 124	4	15
Cyclohexane	25.0	23.8		ug/L		95	59 - 135	7	20
Dichlorodifluoromethane	25.0	30.6		ug/L		122	59 - 135	5	20
Ethylbenzene	25.0	24.6		ug/L		99	77 - 123	5	15
1,2-Dibromoethane	25.0	23.7		ug/L		95	77 - 120	4	15
Isopropylbenzene	25.0	23.6		ug/L		94	77 - 122	3	20
Methyl acetate	50.0	49.9		ug/L		100	74 - 133	16	20
Methyl tert-butyl ether	25.0	25.2		ug/L		101	77 - 120	1	37
Methylcyclohexane	25.0	26.1		ug/L		104	68 - 134	7	20
Methylene Chloride	25.0	24.4		ug/L		98	75 - 124	5	15
Styrene	25.0	24.7		ug/L		99	80 - 120	5	20
Tetrachloroethene	25.0	29.1		ug/L		117	74 - 122	5	20
Toluene	25.0	23.3		ug/L		93	80 - 122	4	15
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	73 - 127	4	20
trans-1,3-Dichloropropene	25.0	22.8		ug/L		91	80 - 120	4	15
Trichloroethene	25.0	25.7		ug/L		103	74 - 123	4	16
Trichlorofluoromethane	25.0	36.0		ug/L		144	62 - 150	4	20
Vinyl chloride	25.0	24.9		ug/L		100	65 - 133	6	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*116*		*77 - 120*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*

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

Lab Sample ID: LCSD 480-607644/6
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 607644

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	*119*		*75 - 123*

QC Association Summary

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

GC/MS VOA

Analysis Batch: 607540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192985-1	AL-2	Total/NA	Water	8260C	
480-192985-3	AL-7	Total/NA	Water	8260C	
480-192985-4	EX-MW-11R	Total/NA	Water	8260C	
480-192985-5	MW-02R	Total/NA	Water	8260C	
480-192985-6	MW-07R	Total/NA	Water	8260C	
480-192985-10	DUP	Total/NA	Water	8260C	
480-192985-11	TRIP BLANK	Total/NA	Water	8260C	
MB 480-607540/9	Method Blank	Total/NA	Water	8260C	
LCS 480-607540/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 607644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192985-2	AL-1	Total/NA	Water	8260C	
480-192985-4 - DL	EX-MW-11R	Total/NA	Water	8260C	
480-192985-6 - DL	MW-07R	Total/NA	Water	8260C	
480-192985-7	MW-04	Total/NA	Water	8260C	
480-192985-8	EX-MW-12	Total/NA	Water	8260C	
480-192985-9	MW-09R	Total/NA	Water	8260C	
480-192985-10 - DL	DUP	Total/NA	Water	8260C	
MB 480-607644/9	Method Blank	Total/NA	Water	8260C	
LCS 480-607644/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-607644/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Lab Chronicle

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-2
Lab Sample ID: 480-192985-1
Date Collected: 12/02/21 09:01
Matrix: Water
Date Received: 12/02/21 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607540	12/04/21 03:17	AXK	TAL BUF

Client Sample ID: AL-1
Lab Sample ID: 480-192985-2
Date Collected: 12/02/21 09:30
Matrix: Water
Date Received: 12/02/21 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607644	12/06/21 14:46	AXK	TAL BUF

Client Sample ID: AL-7
Lab Sample ID: 480-192985-3
Date Collected: 12/02/21 09:55
Matrix: Water
Date Received: 12/02/21 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607540	12/04/21 04:00	AXK	TAL BUF

Client Sample ID: EX-MW-11R
Lab Sample ID: 480-192985-4
Date Collected: 12/02/21 10:45
Matrix: Water
Date Received: 12/02/21 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	607540	12/04/21 04:22	AXK	TAL BUF
Total/NA	Analysis	8260C	DL	125	607644	12/06/21 15:08	AXK	TAL BUF

Client Sample ID: MW-02R
Lab Sample ID: 480-192985-5
Date Collected: 12/02/21 11:40
Matrix: Water
Date Received: 12/02/21 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607540	12/04/21 04:44	AXK	TAL BUF

Client Sample ID: MW-07R
Lab Sample ID: 480-192985-6
Date Collected: 12/02/21 12:20
Matrix: Water
Date Received: 12/02/21 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	607540	12/04/21 05:06	AXK	TAL BUF
Total/NA	Analysis	8260C	DL	80	607644	12/06/21 15:30	AXK	TAL BUF

Client Sample ID: MW-04
Lab Sample ID: 480-192985-7
Date Collected: 12/02/21 13:05
Matrix: Water
Date Received: 12/02/21 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607644	12/06/21 15:51	AXK	TAL BUF

Lab Chronicle

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: EX-MW-12
Lab Sample ID: 480-192985-8
Date Collected: 12/02/21 13:50
Matrix: Water
Date Received: 12/02/21 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607644	12/06/21 16:13	AXK	TAL BUF

Client Sample ID: MW-09R
Lab Sample ID: 480-192985-9
Date Collected: 12/02/21 14:55
Matrix: Water
Date Received: 12/02/21 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607644	12/06/21 16:35	AXK	TAL BUF

Client Sample ID: DUP
Lab Sample ID: 480-192985-10
Date Collected: 12/02/21 00:00
Matrix: Water
Date Received: 12/02/21 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	607540	12/04/21 06:34	AXK	TAL BUF
Total/NA	Analysis	8260C	DL	200	607644	12/06/21 16:57	AXK	TAL BUF

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-192985-11
Date Collected: 12/02/21 00:00
Matrix: Water
Date Received: 12/02/21 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607540	12/04/21 06:56	AXK	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

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

Method Summary

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: LaBella Associates DPC
Job ID: 480-192985-1
Project/Site: Alumax & Roblin Periodic Review Reports

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-192985-1	AL-2	Water	12/02/21 09:01	12/02/21 16:19
480-192985-2	AL-1	Water	12/02/21 09:30	12/02/21 16:19
480-192985-3	AL-7	Water	12/02/21 09:55	12/02/21 16:19
480-192985-4	EX-MW-11R	Water	12/02/21 10:45	12/02/21 16:19
480-192985-5	MW-02R	Water	12/02/21 11:40	12/02/21 16:19
480-192985-6	MW-07R	Water	12/02/21 12:20	12/02/21 16:19
480-192985-7	MW-04	Water	12/02/21 13:05	12/02/21 16:19
480-192985-8	EX-MW-12	Water	12/02/21 13:50	12/02/21 16:19
480-192985-9	MW-09R	Water	12/02/21 14:55	12/02/21 16:19
480-192985-10	DUP	Water	12/02/21 00:00	12/02/21 16:19
480-192985-11	TRIP BLANK	Water	12/02/21 00:00	12/02/21 16:19

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: A. Koons	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-168119-28076.1
Client Contact: Chris Kibler	Phone: 716.417.9150	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin: NY	Page: Page 1 of 1
Company: LaBella Associates DPC	PWSID:			Job #:
Address: 300 Pearl Street Suite 130	Due Date Requested:			
City: Buffalo	TAT Requested (days): 7 ~~000~~ day			
State, Zip: NY, 14202	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: CKibler@labellapc.com	WO #:			
Project Name: Former Roblin Steel & Alumax Ext Sites	Project #: 48015183			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
AL-2	12/2/21	0901	G	Water			X		
AL-1	12/2/21	0930	G	Water			X		
AL-7	12/2/21	0955	G	Water			X		
EX-MW-11R	12/2/21	1045	G	Water			X		
MW-02R	12/2/21	1140	G	Water			X		
MW-07R	12/2/21	1220	G	Water			X		
MW-04	12/2/21	1305	G	Water			X		
EX-MW-12	12/2/21	1350	G	Water			X		
MW-09R	12/2/21	1455	G	Water			X		
DUP	12/2/21	—	G	Water			X		
Trip Blank	12/2/21	—	G	water			X		

480-192985 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

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

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	12/2/21 1619	LaBella	Allison McNaughton	12/2/21 1619	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.8 #1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-192985-1

Login Number: 192985

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8 #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	