

2019 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

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1.0 EXECUTIVE SUMMARY

This Periodic Review Report (PRR) is a required element of the approved Site Management Plan (SMP) 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." 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, recent groundwater sampling results indicate that 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. However, during the annual site inspection, it was discovered that one of the monitoring wells (MW-O1) had been significantly damaged and can no longer function as a groundwater sampling point. This is further discussed in Section 5 of this report.

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 and the permanent removal of MW-01, MW-04, MW-12 and EX-MW12 from the groundwater monitoring program. Continued monitoring and evaluation of Site wells MW-02R, MW-07R, MW-09R and EX-MW11R 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 new 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 comprise 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 4,000 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 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 5, 2019. Based on this inspection, the cover system is intact and functioning effectively throughout the Site.

The results of the December 2019 groundwater sampling event revealed that 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 NYSEC 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 5, 2019, Mr. Chris Kibler 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 very good condition.

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 4 includes the NYSDEC "Site Management Periodic Review Report Notice-Institutional and Engineering Controls Certification Form."

5.0 MONITORING PLAN COMPLIANCE REPORT

5.1 Requirements

The Monitoring Plan is included in Section 3.0 of the SMP and describes 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.

The Monitoring Plan describes 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, the Monitoring Plan provides 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 eight monitoring wells. During the annual site inspection and monitoring event conducted on December 5, 2019, one of the eight groundwater monitoring wells (MW-01) was discovered to be damaged. The protective casing and riser of MW-01 were observed to be significantly bent toward the ground surface and LaBella was unable to pass tubing downward into the well for purging and sample collection.

5.2.1 Sampling Procedure

Seven of the eight groundwater monitoring wells were purged and sampled in general accordance with the procedures detailed in the November 2010 SMP. This included four out of the five downgradient wells (MW-02R, MW-04, MW-12 and EX-MW12) and the three wells located within areas of groundwater impacted with chlorinated VOCs (MW-09R, MW-07R and EX-MW11R). Downgradient well MW-01 could not be sampled due to the damaged riser described above. All monitoring well sampling activities were recorded on groundwater sampling logs, which are included as Appendix 5. 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 NYSDECapproved low-flow purging procedures via a Geotech Geopump II Pump. After completion of development, the wells were allowed to recharge. 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 6.

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 5, 2019, 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 MW-12) 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 not detected in monitoring wells MW-04, MW-12 and EX-MW12.

Four VOCs were detected at concentrations above NYSDEC TOGS Standards in the sample collected from EX-MW-11R. Total VOC concentrations in this well have decreased since the December 2018 sampling event and are substantially lower than the initial concentration detected at this location during the October 2002 sampling event.

Three VOCs (Cis-1, 2-Dichloroethene, vinyl chloride and benzene) were detected at concentrations above NYSDEC TOGS Standards in the sample collected from MW-02R. Total VOC concentrations in this well have slightly decreased since the December 2018 sampling event and are substantially lower than the maximum concentration detected at this location during the August 2010 sampling event.

Two VOCs (Cis-1, 2-Dichloroethene and vinyl chloride) were detected within MW-07R at concentrations above NYSDEC TOGS Standards. Total VOC concentrations in this well have slightly increased since the December 2018 sampling event. However, such are substantially lower than the maximum concentration detected at this location during the May 2009 sampling event.

Five VOCs were detected at concentrations above NYSDEC TOGS Standards in the sample collected

from MW-09R. However, total VOC concentrations in MW-09R are at their lowest concentrations since sampling efforts began in October 2002.

A comparison of the results from MW-12 with the blind field duplicate indicates that the data coincide. In addition, no VOC detections were identified within the trip blank analysis.

5.4 Monitoring Deficiencies

As indicated above, damage to downgradient well MW-01 prevented LaBella from collecting a groundwater sample from this well during the 2019 annual monitoring event. However, the lack of monitoring data from this location is not considered to be significant given that no contraventions of the water quality standards have been detected in this well since monitoring began in 2002.

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 in EX-MW-11R and MW-02R since the December 2018 sampling event. Although total VOC concentrations in MW-07R have increased slightly since the December 2018 sampling event, such are well below the maximum concentration detected at this location. The continued monitoring of contaminant levels at these well locations is recommended.

Meanwhile, no VOCs have been detected in MW-04, MW-12 or EX-MW-12 during the last three annual monitoring events, and no contraventions of NYSDEC TOGS standards have been detected in these wells during the last five annual monitoring events dating back to 2015. As a result, it is recommended that these wells be permanently removed from the monitoring program.

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, MW-04, MW-12 and EX-MW12 from the groundwater monitoring program.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The Site Soil Cover System was inspected on December 5, 2019 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 Site wells MW-02R, MW-07R, MW-09R, and EX-MW11R is warranted. No changes to the Monitoring Plan or the SMP are recommended with the exception of the proper decommissioning of MW-01 and the permanent removal of MW-01, MW-04, MW-12 and EX-MW12 from the groundwater monitoring program.

Total VOC concentrations in a majority of the Site wells have decreased over time. Continued evaluation of Site wells MW-02R, MW-07R, MW-09R and EX-MW11R is warranted. No changes to

the Monitoring Plan or the SMP are recommended with the exception of the permanent removal of MW-01, MW-04, MW-12 and EX-MW12 from the groundwater monitoring program.

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 be 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

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 2019

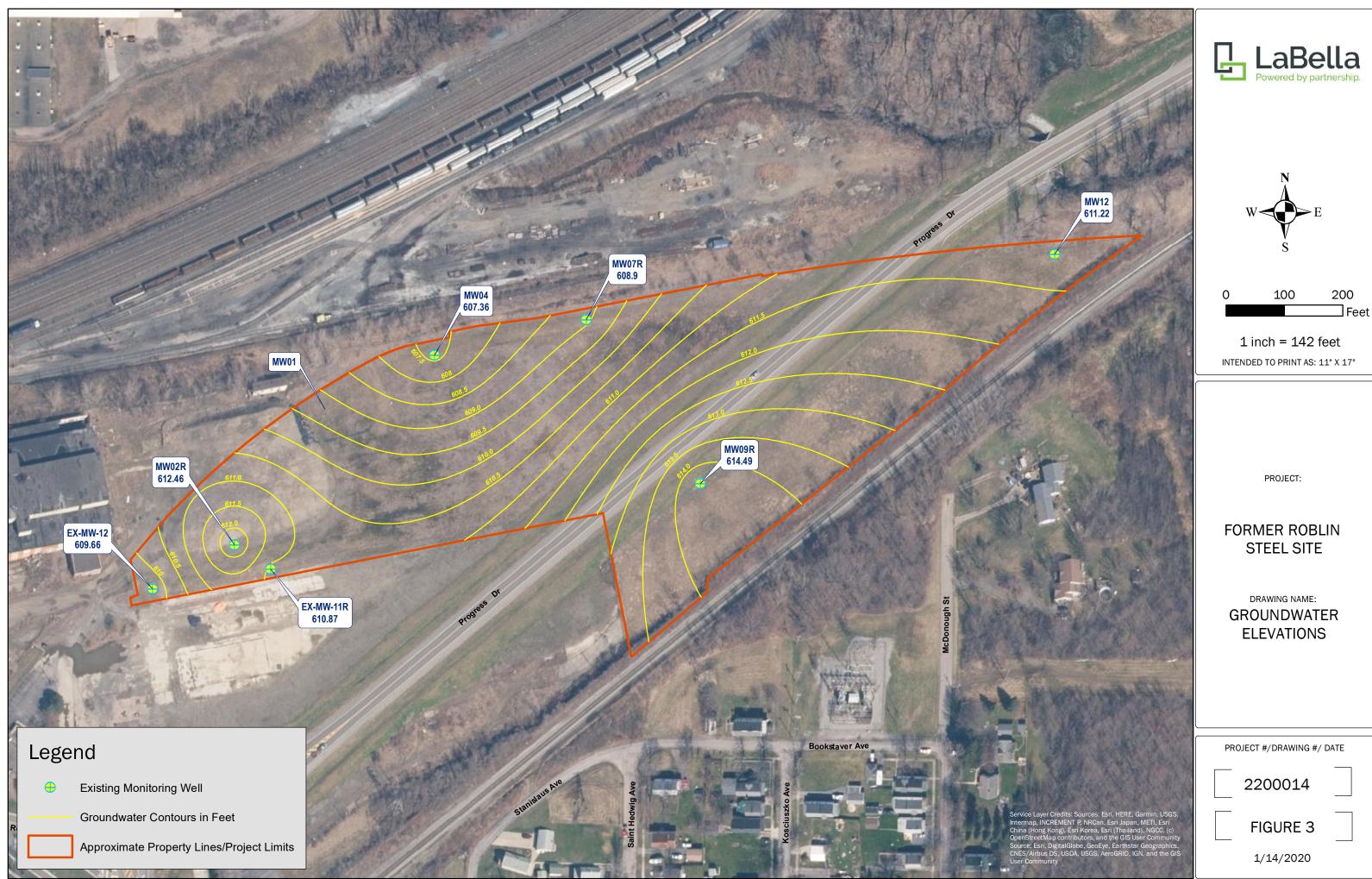
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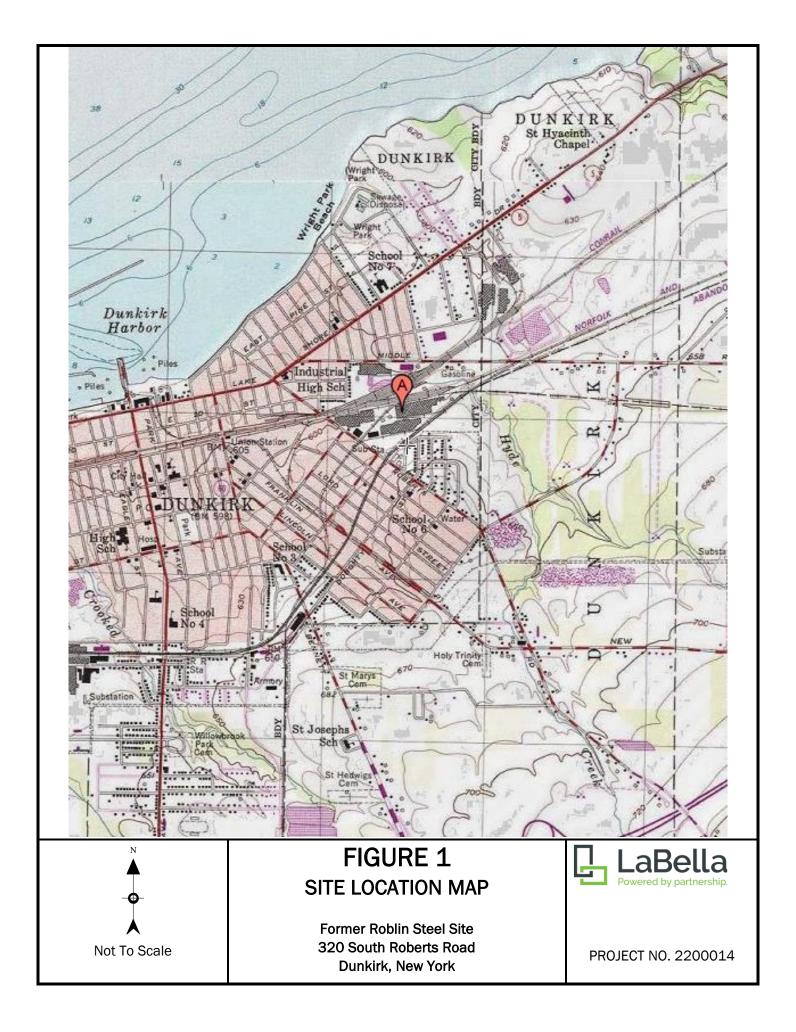
FIGURES



I:\Chautauqua County\2200014 - Dunkirk Brownfield Monitoring\Reports\Event_December 2019\Roblin December 2019\FIGURE 2 Roblin GW.mxd



I:\Chautauqua County\2200014 - Dunkirk Brownfield Monitoring\Reports\Event_December 2019\Roblin December 2019\FIGURE3.mxd





TABLE

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

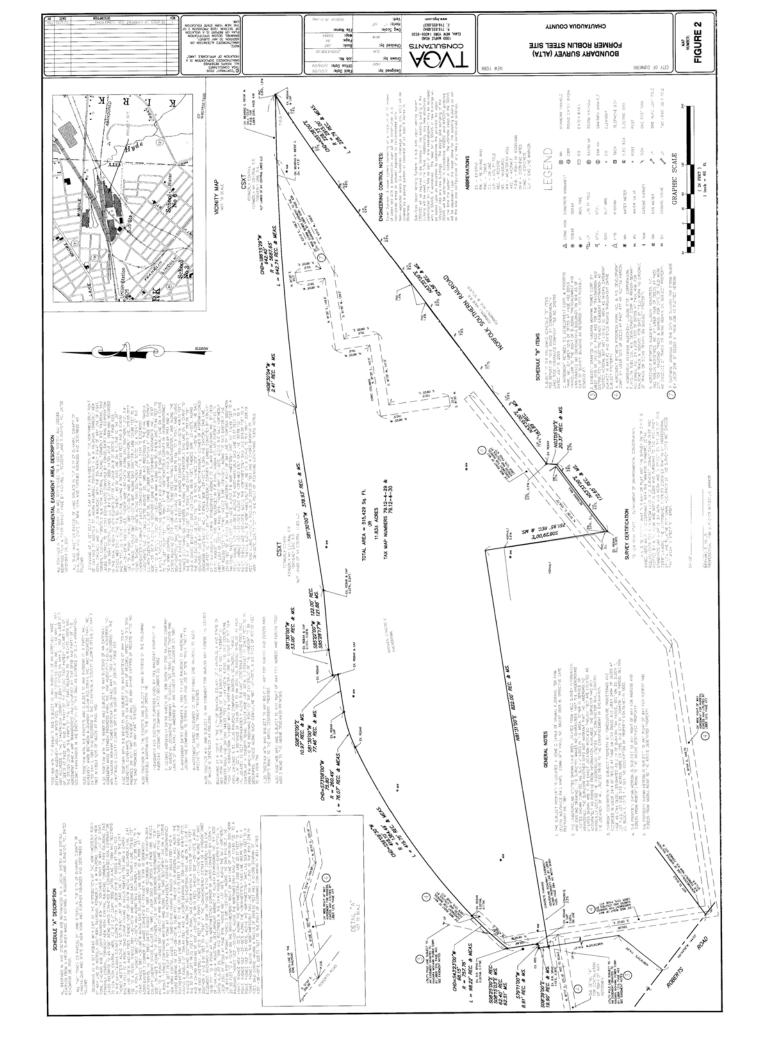
| | REGULATOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------------|---------------------|--|--------------|------------------------------|-----------------------------|---------|--|------------|-----------|---------------------------------|---------|-----------|------------------------------------|-------------|------------------------|---------|-------------------|-----------------|---------|----------|-----------------|---------------|-----------|---------------------------|------------|----------------------------------|---------------|-------------|---------------------------|
| PARAMETER | Y VALUE | | MW-01 | | | | | MW-02R | | | | | MW-04 | | | | | -07R | | | | | | MW-09R | | | | 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 10/1 | 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 1 | 2/5/19 10 | 0/11/02 2/10/09 8/10/10 8/21/13 | 7/15/14 | 4 12/15/1 | 5 12/14/16 2/2/18 12/12/18 12/5/19 | 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 | 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 | 10/11/02 2/10/09 8/10/10 8/15/13 | 7/15/14 12/15 | /15 12/14/1 | 5 2/2/18 12/12/18 12/5/19 |
| Volatile Organic Compo | unds (µg/L) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | 5 | | | | | | | | | | | | | | 15 | | | | | | 3 | 2.02 | | 2.3 | 1.2 | | | 4. | 11 | 5.8 |
| 1,1-Dichloroethane | 5 | | | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| cis-1,2-Dichloroethene | 5 | | 0.4 | 6 | | | 10.1 | 6.27 18 11 13 | 20 | | NA | | 2.6 | 1.2 | NA | 904 128 | 584 | 17 5.9 | 190 3.2 | 16 | NA | 210 277 | | | 500 410 290 | 180 | NA 354 5,320 1,950 | | | |
| trans-1,2-Dichloroethene | 5 | | | | | NA 21.3 | | | | | NA | | | | NA 1.500 | 904 | | | | | NA | 4.48 17.3 | | 2.9 | 4.2 | | NA 41,000 354 5,320 | 3. | 1 | 4.4 |
| 1,2-Dichloroethene (Total 1,2,4-Trimethylbenzene | 5 | | | | 6 | 88 21.3 | | | | | | | | | 1,500 | 904 | | | | | | 214 294 12.9 | | | | | 41,000 354 5,320 | | | |
| | 5 | | | _ | | 33.5 129 | | | - | | | | | | | | _ | | | | | 12.9 | | | | _ | | | | |
| 2-Butanone Acetone | 50 | | | | | | 12.3 | | - | | 43.8 | | | | | | | | | | | 569 | | | | | | | | |
| Benzene | 1 1 | | | | | | | 22.7 3.5 3.5 5.6 | 3.2 | 12 | | | | | 10 | 65 14 | | 0.34 | | | 35 | | 87.7 46.3 | 0.97 | 2.2 | 3.5 | | 2. | | 3.7 |
| Carbon Disulfide | 60 | | 5.6 | 6 0.19 | | 10 7.52 37.5 | 10.2 | 22.7 5.5 5.5 5.6 | J.4 | 1 | • | | | | 10 | 05 14 | | 0.54 | | | | 11.5 445 | 07.7 40.3 | 0.51 | b.b | 3.5 | | | | 3.7 |
| Chloroethane | 5 | - 4 | | 0.15 | | | 6.2 | | | | | | | | | | | | | | | | | | | | | | | |
| Cyclohexane | 5 | s. | | | s. | | | 43.3 6.3 5 7.9 | 3.6 | 3.4 | | | | | | | | 0.72 | | | | | 208 155 | 15 | 9.4 | 9.3 | | 16 | 24 | 22 19 22 |
| cis-1,3-Dichloropropene | 0 | ≥ | | | | | | | | | | | | | | 1,500 | | | | | | | | | | | | | | |
| Ethylbenzene | 5 | _ ≤ | | | ≦ | 9.81 18.9 | | | | | 2 | | | | 4 | | | | | | 12 | 5.66 69.6 | 33.7 17.3 | | | | | 2. | | 1.6 |
| Isopropylbenzene | 5 | P | | | | | | 3.12 0.61 | | | | | | | | | | | | | | | | 0.28 | | | | 0.6 | 8 | |
| Methyl Cyclohexane | 5 | E | 1 | | <u> </u> | | 13.8 | 22.4 2.3 1.3 2 | 0.7 | 0.99 | | | | | | 99 | | 0.76 | | | | | 121 101 | 13 | | 7.3 | | 15 | 20 | 23 7.3 11 |
| Methylene Chloride | 5 | 0 | | | | | | | | | | | | | | | | | | | | | | | 4.8 | | | | 12 | |
| n-Propylbenzene | 5 | | | | | 2.57 | | | | | | | | | | 1.0.0 | | | | | | | _ | | | | | | | |
| Tetrachloroethene | 5 | | | | | 24 7.19 101 | | | | | | | | | | 160 69 29.7 | | 0.25 | | | | 23.3 581 | | 4.5 | | | | 1 | | 0.81 |
| Toluene m,p-Xylene | | | | | | 24 7.19 101 NA 7.62 73.2 | 2.45 | 0.81 | - | | NA | | | | | 67 33.3 | | | | | | 20.5 239 | | | | | NA | 0.7 | | 0.81 |
| o-Xvlene | 5 NA 5 NA | <u>`</u> | | | | NA 2.61 37.2 | 2.43 | 2.10 | | | NA | | | | NA | 07 33.3 | | | | | NA | 11.5 128 | | 0.23 | | | NA | 4. | | |
| Total Xylenes | 5 4 | | | | | 11 10.23 110.4 | | 2.10 | | | 10 | | | | | 67 33.3 | | | | | | 32 367 | | 0.2.5 | | | 100 | -1. | | 2.6 |
| Trichloroethene | 5 | | | 0.53 | 3 | 32 3.31 | | 0.25 | | | | | | 1.91 | 56 | 49.2 | 55.9 | 2 | 3.7 | | | 135 585 | | | 230 39 | | 150.000 168 4.630 | 4.510 36 | 91 | 10 |
| Vinyl chloride | 2 | | | | 3 | 31 5.34 | 12.5 | 9.13 26 42 27 | 49 | 37 | | | 0.49 | | 330 | 770 402 56.1 | 205 | 6.2 3.7 | 75 3.6 | 19 | 34 | 33 | 991 287 | 310 | 93 23 | 110 | 9,800 27 638 881 | 1,110 52 | 360 | 950 510 330 |
| Total VOCs | · 5 | 0 | 0 0 0 7 | 0.72 | 0 0 0 2 | 204 91 580 | 128 | 141 59 63 56 | 77 | 64 | 18 0 0 44 | 0 | 3 | 3 0 0 0 | 1,950 | 2,797 2,370 184 | 845 | 25 12 | 194 6.8 | 35 | 1,063 | 716 3,877 | 1,658 662 | 1,549 | 735 567 313 | 310 | 200,800 903 15,908 2,831 | 11,020 1,5 | 8 1,518 | 2,514 1,506 1,313 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | REGULATOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PARAMETER Collection Date | Y VALUE | | MW-12 | 05 12 04 05 | 2/2/10 12/2/10 12/5/10 10/2 | | 0/15/13 | EX-MW-12 7/15/14 12/15/15 12/14/16 2/2/18 | 12/12/10 1 | 2/5/20 | | | | | | | | | | | | | | | | | | | | |
| Volatile Organic Compo | 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 12/3/19 10/1 | 11/02 2/10/09 8/10/10 | 0/15/15 | 7/15/14 12/15/15 12/14/16 2/2/18 | 12/12/16 1 | 2/5/19 | | | | | | | | | | | | | | | | | | | | |
| cis-1,2-Dichloroethene | 5 NA | | 0.5 | 3 | | NA 7.6 | | 0.73 | | | | | | | | | | | | | | | | | | | | | | |
| trans-1,2-Dichloroethene | | | 0.3. | 3 | | NA 7.6 | | 0.73 | | | | | | | | | | | | | | | | | | | | | | |
| 1,2-Dichloroethene (Total | 5 150 | | | | | 150 7.6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Butanone | 50 | z | | | | 31.3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Hexanone | 50 | 9 | | | | 5.23 | | | | | | | | | | | | | | | | | | | | | | | | |
| Acetone | 50 | | | | | 73.8 | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 1 1 | - SA | | | | | | 2.14 0.47 | | | | | | | | | | | | | | | | | | | | | | |
| Ethylbenzene | 5 1 | Ś | | | | 1 18.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Toluene | 5 | P | | | | 48.7 | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| m,p-Xylene | 5 | <u>_</u> | | | | NA 74.7 | | | + | | | | | | | | | | | | | | | | | | | | | |
| o-Xylene Total Xulener | 5 | | | _ | N | NA 40.4 | - | | | | | | | | | | | | | | | | | | | | | | | |
| Total Xylenes Trichloroethene | 5 | | | | | 8.96 | | | + + | | | | | | | | | | | | | | | | | | | | | |
| Vinvl chloride | 2 200 | 0 | | | 2 | 200 27.2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Total VOCs | | 2 0 | 0 0 0 0.5 | 3 0 | 0 0 0 3 | | | 2.14 1 0 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | |
| Notes: | 55. | | | | | 405 | | | | - | | | | | | | | | | | | | | | | | | | | |
| | om NYS Ambient Water Ou | uality Standards TC | IGS 1.1.1 (Source of Drinking Water, groundwater). | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (·) = No regulatory value is asso | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shaded values represent exceed | inces of the regulatory vali | lue. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| µg/L = micrograms per Liter (eq | | n (ppb)). | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pg) = miclograms per take requiratent to parts per billion Only compounds with one or more detections are shown. Blank spaces indicate that the analyte was not detected. "NA" = parameter was not analyzed



APPENDIX 1

Boundary Survey-Former Roblin Steel Site





APPENDIX 2

Cover Inspection Form

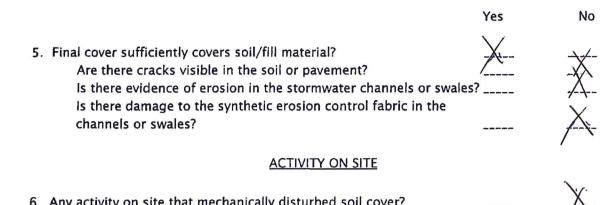
COVER INSPECTION FORM Former Roblin Steel Site

^{تىر} بە

| | | | Inspection Date: 2-5-20P |
|--|------------|--------|--------------------------|
| Property Name: Former Roblin Steel Site | | | Inspection Date: |
| Property Address: 320 South Roberts Road | | | / |
| <u>City</u> : Dunkirk 1 4048 | State: | NY | Zip Code: |
| Property ID: (Tax Assessment Map) | | | |
| <u>Section</u> : 79.12 <u>Block</u> : 4 | Lot(s): | 29 and | 30 |
| Total Acreage: 16.5 acres | | | |
| Weather (during inspection): Temperature: 32 | Conditions | . Cla | icky, whaty |
| SIGNATURE (MTA' | | | |
| The findings of this inspection were discussed wir were identified and implementation was mutually ac | greed upor | 1: | |
| Inspector: Chis, Kiber LaBella, As | SQCiate | s,DPC | Date: 12-3-20M |
| Next Scheduled Inspection Date: | | , | |
| | | | |

SECURITY AND ACCESS

| | | Yes | Ng |
|----|---|--------|-----------------------|
| 1 | Access controlled by perimeter fencing? | | $\underline{\lambda}$ |
| | Are there sections of the fence material damaged or missing? | | 7 |
| | Are the fence or gate post foundations structurally sound? | | |
| | | | \checkmark |
| 2. | "No Trespass" signs posted in appropriate languages? | | A. |
| | 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? | | |
| | | | \sim |
| 3. | Is there evidence of trespassing? | | A |
| | Is there evidence of illegal dumping? | | A |
| | | | / ` |
| | COVER & VEGETATION | | |
| | | \sim | |
| 4. | Final cover in acceptable condition? | X | 1.1 |
| | Is there evidence of sloughing, erosion, ponding or settlement? | 77- | īX. |
| | Is there evidence of unintended traffic; rutting? | | X |
| | Is there evidence of distressed vegetation/turf? | | X |
| | | | /~- |
| | | | |



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

ADDITIONAL FACILITY INFORMATION

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

| | | COMMENTS |
|------|---|--------------|
| lter | <u>n #</u> | |
| | | |
| | in the second | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| - | | |
| | | ATTACHMENTS |
| 1. | Site Sketch | \mathbf{X} |
| 2. | Photographs | |
| 3. | Laboratory Report (s) | |

N:\2005.0308.00-Roblin Remedial Design and Oversight\Engineering\10Dellverables\Final Engineering Report\Site Management Plan\Attachments for 2010 SMP\Attachment E-1 Cover Insp.Form.doc



APPENDIX 3

Photographs







2019 Periodic Review Report Former Roblin Steel Site 320 S. Roberts Road, Dunkirk, New York





2019 Periodic Review Report Former Roblin Steel Site 320 S. Roberts Road, Dunkirk, New York





APPENDIX 4

Site Management Periodic Review Report Notice-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 No. B00173 | | Site Details | | Box 1 | |
|---|----------------------|--|-----------------------|--------------|--------------|
| Site Name Former Rol | olin Steel Site (D | unkirk) | | | |
| Site Address: 320 South City/Town: Dunkirk County: Chautauqua Site Acreage: 11.8 | ו Roberts Road | Zip Code: 14048 | | | |
| Reporting Period: Dece | mber 15, 2018 to I | December 15, 2019 | | ÷ | |
| | | | | YES | NO |
| 1. Is the information ab | ove correct? | | | | |
| If NO, include handw | vritten above or on | a separate sheet. | | | |
| 2. Has some or all of th tax map amendment | | en sold, subdivided, mer ting Period? | ged, or undergone a | | \checkmark |
| 3. Has there been any (see 6NYCRR 375-1 | | he site during this Repor | ting Period | | |
| 4. Have any federal, sta for or at the property | | | charge) been issued | | |
| | | thru 4, include docume ously submitted with thi | | | , |
| 5. Is the site currently u | Indergoing develo | pment? | | ٥ | |
| | | | | | |
| | | | | Box 2 | |
| | 2 | | | YES | NO |
| 6. Is the current site us Commercial and Ind | | he use(s) listed below? | | <u>I</u> | |
| 7. Are all ICs/ECs in pla | ace and functioning | g as designed? | | \checkmark | |
| | | JESTION 6 OR 7 IS NO, s REST OF THIS FORM. O | | เทศ | |
| A Corrective Measures \ | Nork Plan must be | e submitted along with th | his form to address t | nese iss | ues. |
| Signature of Owner, Rem | edial Party or Desig | nated Representative | Date | | |

| | 3 | Box |
|---|--|--|
| Description (| of Institutional Controls | |
| Parcel | Owner | Institutional Control |
| 79.12-4-29 | Chautauqua Co. | Ground Water Use Restrict |
| | | Landuse Restriction Monitoring Plan Site Management Plan |
| The Site Managem | nent Plan includes: | IC/EC Plan |
| - An Engineering a system and provision and the installation groundwater use re | and Institutional Controls Plan. Engineering ons for evaluating the potential for soil vapo of soil vapor mitigation systems if warrante estrictions and use restrictions of the Site to | r intrusion to any new buildings construct d. Institutional controls at the site will inclu |
| completed in a safe | lork Plan to assure that future intrusive active and environmentally responsible manner. | |
| | Plan that includes: provisions for groundwa ection program to assure that the Institution | |
| 79.12-4-30 | Chautauqua County | |
| | | Ground Water Use Restricti Soil Management Plan Monitoring Plan |
| | | Site Management Plan IC/EC Plan |
| | 2 | |
| | | Landuse Restriction |
| | | |
| system and provision and the installation | ent Plan includes: and Institutional Controls Plan. Engineering ons for evaluating the potential for soil vapo of soil vapor mitigation systems if warrante estrictions and use restrictions of the Site to | controls include a one-foot thick soil cove r intrusion to any new buildings construct d. Institutional controls at the site will inclu |
| An Engineering a system and provision and the installation groundwater use re- purposes). An Excavation W completed in a safet - A Site Monitoring | and Institutional Controls Plan. Engineering ons for evaluating the potential for soil vapo of soil vapor mitigation systems if warrante estrictions and use restrictions of the Site to /ork Plan to assure that future intrusive active and environmentally responsible manner. Plan that includes: provisions for groundwa | controls include a one-foot thick soil cove r intrusion to any new buildings construct d. Institutional controls at the site will inclu restricted use (i.e. commercial/industrial rities and soil/fill handling at the Site are ater monitoring; and, |
| An Engineering a system and provision and the installation groundwater use re- purposes). An Excavation W completed in a safet - A Site Monitoring | and Institutional Controls Plan. Engineering ons for evaluating the potential for soil vapo of soil vapor mitigation systems if warrante estrictions and use restrictions of the Site to /ork Plan to assure that future intrusive active and environmentally responsible manner. | controls include a one-foot thick soil cove r intrusion to any new buildings construct d. Institutional controls at the site will inclu restricted use (i.e. commercial/industrial rities and soil/fill handling at the Site are ater monitoring; and, |
| An Engineering a system and provision and the installation groundwater use re- purposes). An Excavation W completed in a safet - A Site Monitoring - A Site-wide Inspect | and Institutional Controls Plan. Engineering ons for evaluating the potential for soil vapo of soil vapor mitigation systems if warrante estrictions and use restrictions of the Site to /ork Plan to assure that future intrusive active and environmentally responsible manner. Plan that includes: provisions for groundwa | controls include a one-foot thick soil cove r intrusion to any new buildings construct d. Institutional controls at the site will inclu restricted use (i.e. commercial/industrial rities and soil/fill handling at the Site are ater monitoring; and, |
| An Engineering a system and provision and the installation groundwater use re- purposes). An Excavation W completed in a safet - A Site Monitoring - A Site-wide Inspective. | and Institutional Controls Plan. Engineering ons for evaluating the potential for soil vapo of soil vapor mitigation systems if warrante estrictions and use restrictions of the Site to /ork Plan to assure that future intrusive active and environmentally responsible manner. Plan that includes: provisions for groundwa | controls include a one-foot thick soil cove r intrusion to any new buildings construct d. Institutional controls at the site will inclu restricted use (i.e. commercial/industrial rities and soil/fill handling at the Site are ater monitoring; and, al controls have not been altered and rem |
| An Engineering a system and provision and the installation groundwater use re- purposes). An Excavation W completed in a safet - A Site Monitoring - A Site-wide Inspective. | and Institutional Controls Plan. Engineering ons for evaluating the potential for soil vapo of soil vapor mitigation systems if warrante estrictions and use restrictions of the Site to /ork Plan to assure that future intrusive active e and environmentally responsible manner. Plan that includes: provisions for groundwa ection program to assure that the Institutional | controls include a one-foot thick soil cove r intrusion to any new buildings construct d. Institutional controls at the site will inclu restricted use (i.e. commercial/industrial rities and soil/fill handling at the Site are ater monitoring; and, al controls have not been altered and rem |
| An Engineering a system and provision and the installation groundwater use repurposes). An Excavation W completed in a safe - A Site Monitoring - A Site-wide Inspective. Description of Parcel | and Institutional Controls Plan. Engineering ons for evaluating the potential for soil vapo of soil vapor mitigation systems if warrante estrictions and use restrictions of the Site to /ork Plan to assure that future intrusive active and environmentally responsible manner. Plan that includes: provisions for groundwa ection program to assure that the Institutional of Engineering Controls | controls include a one-foot thick soil cove r intrusion to any new buildings construct d. Institutional controls at the site will inclu restricted use (i.e. commercial/industrial rities and soil/fill handling at the Site are ater monitoring; and, al controls have not been altered and rem |
| An Engineering a system and provision and the installation groundwater use repurposes). An Excavation W completed in a safe - A Site Monitoring - A Site-wide Inspective. Description of Parcel | and Institutional Controls Plan. Engineering ons for evaluating the potential for soil vapo of soil vapor mitigation systems if warranter estrictions and use restrictions of the Site to /ork Plan to assure that future intrusive active e and environmentally responsible manner. Plan that includes: provisions for groundwa ection program to assure that the Institutional of Engineering Controls Engineering Controls | controls include a one-foot thick soil cove r intrusion to any new buildings construct d. Institutional controls at the site will inclu restricted use (i.e. commercial/industrial rities and soil/fill handling at the Site are ater monitoring; and, al controls have not been altered and rem |

| 30 | 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 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. |
| | engineering practices; and the information presented is accurate and compete. YES NO |
| | |
| 2. | If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true: |
| | (a) the Institutional Control and/or 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 |
| | |
| | |
| | IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue. |
| | |

Signature of Owner, Remedial Party or Designated Representative

Date

| IC CERTIFICATIONS SITE NO. B00173 | |
|--|----------------------------|
| 3 | Box 6 |
| SITE OWNER OR DESIGNATED REPRESENTATIVE I certify that all information and statements in Boxes 1,2, and 3 are true. statement made herein is punishable as a Class "A" misdemeanor, purs Penal Law. | I understand that a false |
| I BRAD BEINTLEY at 454 N. WORK ST. print name print business add | FALCONER, NY 14733 ress |
| am certifying asOwner | (Owner or Remedial Party) |
| for the Site named in the Site Details Section of this form. | |
| | |
| Signature of Owner, Remedial Party, or Designated Representative | 12/18/2019 |

| IC/EC CERTIFICATIONS | |
|---|----------------|
| Professional Engineer Signature | Box 7 |
| I certify that all information in Boxes 4 and 5 are true. I understand that a false punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Pe | nal Law. |
| I DANTEL P. Noll at 300 STATE ST, Roc print name print business address | HESTER NY |
| am certifying as a Professional Engineer for the | emedial Party) |
| STATE OF WEIN AO | 4 |
| * During | * |
| DP. 11 10.031996 6 | 1/13/20 |
| Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification (Required for PE | Date |

- .Q



APPENDIX 5

Groundwater Sampling Logs

| LABELLA ASSOCIAT | | | | | | | |
|---|-------------------------------------|-------------------------------|------------------------------|------------------------|---------------|----------------|---------|
| Environmental Engir | eering Co | nsultant | S | | | Well I.D. | MW-12 |
| Site Location: | Roblin Stee | el Site, Dun | nkirk, NY | | _ | Job No. | |
| Sample Date: | 12/5/2019 | | _ | | |) | JAXVI |
| LaBella Representative: | CK | | × | | | 02 | JUM |
| Well I.D. | Initial Readings | 1 Well Volume | 2 Well Volumes | 3 Well Volume | Sample | Post Sample | Details |
| Time | 9:00 | 98 | GID | añ | 920 | Campic | Details |
| Time | 1.00 | 101 | | | 100 | | |
| Depth of well | 23.94' | | | | | | |
| Depth to water | 25 | | | | | | |
| Well diameter | 2" | | | | | | |
| Well volume (gallons) | 26 | | | | | | |
| Purging device | P.P. | | | | | | 4 |
| Containment device | Bucket | | | | | | |
| Purge time | | | | | | | |
| Gallons purged | | 2.6 | 2,6 | 26 | | | |
| Sample device | | | | | | | |
| Field Parameters | | | | | | | |
| Temperature | 9.1 | 83 | 3,1 | 8.0 | 78 | | |
| pH measurement | 7.07 | 7.11 | 6.98 | $\sum_{i=1}^{n} O_{i}$ | 7,04 | | |
| Conductivity (mS/cm) | 1,307 | 1412 | 1346 | 1415 | 1,332 | | |
| ORP/Eh (mV) | 899 | 831 | 84.2 | 346 | 851 | | |
| Turbidity (NTUs) | 14.0 | 12,1 | 112 | 11.1 | 10.7 | | |
| WEATHER: | | | | | | | |
| NOTES/FIELD OBSERVAT | | -01 | | | | | |
| | L - F | (1), r | krey | | | | |
| Well Volume Purge: 1 Well Vol | 150 | 10 | | | Well Capacity | / | |
| (only if applicable) Well Capacity (Gallons per Foot): 0. | | -ft.) X . gal/1 0.04 1.5"= | ft = 0.3056 ga $0.092 2"=0.$ | | | | |
| | 12"= 5.88 | 0.04 1.5 - | 0.092 2 -0. | 10 5 -0.57 | | | - |
| 1. Stabilization Crite | | f variation of | f last three co | nsecutive Rea | dings | | |
| pH: <u>+</u> 0.2 units; Temperatu | re: <u>+</u> 0.5 ⁰ C; Sp | pecific Condu | ictance: <u>+</u> 10% | %; Turbidity: | ≤ 50 NTU | | |
| | | | | | | | |
| A minimum of three well volumes | | | | | | | |
| event that groundwater recharge is returned to its pre-purge level (or | | | | | | | |
| and does not reach its pre-purge level (or | | | | | | | |
| degree of recharge indicated in fie | | | | | | | |

| eering Co Roblin Stee 12/5/2019 CK Initial Readings 10', 20 16.7' 16.7' | | | 3 Well Volume | Sample | Job No. Post Sample | Details |
|---|---|---|--|--|--|---|
| CK Initial Readings [$\partial'_1 D$ 16.7' | Volume | | | Sample | | Details |
| Initial Readings ()) ()) ()) ()) ()) ()) ()) ()) ()) () | Volume | | | Sample | | Details |
| Readings []] []] 16.7' | Volume | | | Sample | | Details |
| [<i>D</i>] <i>]</i> 16.7' | 1025 | 1030 | | | | Dotano |
| | | 1 | > 1090 | 1045 | | |
| 53' | | | | | | |
| | | | | - | | |
| 2" | | | | | | |
| 1,8 | | | | | | |
| P.P. | | | | | | |
| Bucket | | | | | | |
| | 10 | 151 | 12 | | | |
| | 1,8 | 1,8 | 17 | | | |
| | | | | | | 1 |
| | | | | | | |
| <u>NX</u> | 7,7 | $\gamma\gamma$ | 76 | 7.6 | | |
| 1,37 | 7.31 | 7.33 | 7.31 | 7,29 | | |
| 0,906 | 0911 | 0.898 | 2912 | 0914 | | |
| 127 | 747 | | 80) | 1817 | | |
| 3.3 | 2.1 | 2.6 | dil | 2.4 | | |
| ONS: | | | | | | |
| = (ft | -ft.) X . gal/f | ft = 0.3056 ga | llons | Vell Capacity | | |
| | 0.04 1.5"= (| J.092 2"=0.] | 10 3 [,] =0.37 | | | |
| | f variation of | last three cor | secutive Rea | dings | | |
| e: <u>+</u> 0.5 ⁰ C; Sp | ecific Condu | ctance: <u>+</u> 10% | ; Turbidity: | <u>< 50 NTU</u> | | |
| slow, the purgi vithin a maximu vel within two h | ng process wi im of two hou iours, then sai | ll continue unt urs), samples w mples can be c | il the well is p ill be collecte ollected after | ourged "dry". A | After the water level is slow t | r level has to recharge |
| | 2" 2" P.P. Bucket Bucket 2 2 2 2 2 3 3 3 3 3 3 3 3 | 2" 2" 2" 2" P.P. Bucket 3 3 3 3 3 3 3 3 3 3 3 3 3 | 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" | 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" | 2" 2" P.P. 9 Bucket 9 Bucket 9 1 1 | 2" 2" P.P. 30 Bucket 30 18 18 18 10 |

| LABELLA ASSOCIAT | | | - | | | M-111 D | | | | | |
|---|--|---|--|---------------------------------------|----------------------------------|------------------------------------|----------------------------|--|--|--|--|
| Environmental Engineering ConsultantsWell I.D.MW-7RSite Location:Roblin Steel Site, Dunkirk, NYJob No. | | | | | | | | | | | |
| Site Location: | Roblin Steel Site, Dunkirk, NY Job No. 12/5/2019 | | | | | | | | | | |
| Sample Date: | 12/5/2019 CK | | | | | | | | | | |
| LaBella Representative: | | | | | | | | | | | |
| | Initial | 1 Well | 2 Well | 3 Well | Comple | Post Sample | Details | | | | |
| Well I.D. | Readings | Volume | Volumes | Volume | Sample | Sample | Details | | | | |
| Time | <u>[]:</u> | 11:05 | 11:10 | 11:20 | _///30 | | | | | | |
| Depth of well | 17.57' | | | | | | | | | | |
| Depth to water | 5,6 | | | | | | | | | | |
| Well diameter | 2" | | | | | | | | | | |
| Well volume (gallons) | 19 | | | | | | | | | | |
| Purging device | P.P. | | | | | | | | | | |
| Containment device | Bucket | | | | | | | | | | |
| Purge time | | | | | | | | | | | |
| Gallons purged | | 19 | 1,9 | 1.9 | | | | | | | |
| Sample device | | | | | | | | | | | |
| Field Parameters | | | | | | | | | | | |
| Temperature | 8.2 | 3.1 | 81 | 7.7 | 7.4 | | | | | | |
| pH measurement | 7,54 | 751 | 7.42 | 7,44 | 7.41 | | | | | | |
| Conductivity (mS/cm) | ,658 | 1.661 | 1.512 | 1,49 | 1,511 | | | | | | |
| ORP/Eh (mV) | 616 | 60.6 | 60.41 | 59.2 | 554 | | | | | | |
| Turbidity (NTUs) | 2.53 | 2.44 | 2.12 | 216 | 2.91 | | | | | | |
| WEATHER: NOTES/FIELD OBSERVATI | | | | | | | | | | | |
| Well Volume Purge: 1 Well Volu | me = (Total W | _ | - | | Well Capacity | ŗ | | | | | |
| (only if applicable) Well Capacity (Gallons per Foot): 0.7 | | -it.) X . gal/1 | ft = 0.3056 ga $0.092 2"=0.1$ | | | | | | | | |
| | 2"=5.88 | | | | | | | | | | |
| 1. Stabilization Criter | ria for range o | f variation of | last three cor | secutive Rea | dings | | | | | | |
| pH: <u>+</u> 0.2 units; Temperature | e: <u>+</u> 0.5 ⁰ C; Sp | ecific Condu | ctance: <u>+</u> 10% | ; Turbidity: | ≤ 50 NTU | | | | | | |
| A minimum of three well volumes a event that groundwater recharge is returned to its pre-purge level (or w and does not reach its pre-purge lev degree of recharge indicated in field | slow, the purgi rithin a maximu rel within two h | ng process wi um of two hou nours, then sar | ll continue unt urs), samples w mples can be c | til the well is p vill be collecte | ourged "dry". d. If the water | After the water level is slow t | r level has to recharge | | | | |

| LABELLA ASSOCIAT Environmental Engin | | | S | | | Well I.D. | MW-4 | | |
|---|--|--|--|---|-----------------|---------------------------------|----------------------------|--|--|
| Site Location: | | el Site, Dun | | | _ | Job No. | | | |
| Sample Date: | 12/5/2019 | | | | | | | | |
| LaBella Representative: | СК | | | | | | | | |
| Well I.D. | Initial Readings | 1 Well Volume | 2 Well Volumes | 3 Well Volume | Sample | Post Sample | Details | | |
| Time | 1140 | 145 | 1150 | 1200 | 1265 | * | | | |
| Depth of well | 16.04' | | | | | | | | |
| Depth to water | 47 | | | | | | | | |
| Well diameter | 2" | | | | | | | | |
| Well volume (gallons) | 1.8. | | | | | | | | |
| Purging device | P.P. | — | | | | | | | |
| Containment device | Bucket | | | | | | | | |
| Purge time | | | | | | - | | | |
| Gallons purged | | 18 | 18 | 1.8 | | | | | |
| Sample device | | | | | | | | | |
| Field Parameters | 10 | | | | | | | | |
| Temperature | 1.8 | 8.0 | 2,7 | $\overline{2}$ | 76 | | | | |
| pH measurement |).22 | $\sum_{i=1}^{n}$ | 212 | 231 | 7.27 | | | | |
| Conductivity (mS/cm) | 1.060 | 114 | 1.212 | 1917 | 1,238 | | | | |
| ORP/Eh (mV) | 1,6 | 18.1 | 9.0 | 8.6 | 19,4 | | | | |
| Turbidity (NTUs) | 43.1 | 42.2 | 407 | 398 | 39.6 | | | | |
| WEATHER: NOTES/FIELD OBSERVATI | ONS: | | | | | | | | |
| Well Volume Purge: 1 Well Volu (only if applicable) Well Capacity (Gallons per Foot): 0.7 | = (ft. | - | ft = 0.3056 ga | llons | Well Capacity | 1 | | | |
| 4"= 0.65 5"= 1.02 6"= 1.47 1 | 2"=5.88 | Eugeniation - 4 | lost three set | nooutine De- | dingo | | | | |
| 1. Stabilization Crite | - | ove p | | | | | | | |
| pH: <u>+</u> 0.2 units; Temperatur | e: <u>+</u> 0.5 [°] C; Sp | ecific Condu | ctance: <u>+</u> 10% | ; Turbidity: | <u>≤ 50 NTU</u> | | | | |
| A minimum of three well volumes event that groundwater recharge is returned to its pre-purge level (or wand does not reach its pre-purge level degree of recharge indicated in field | slow, the purgi vithin a maximu vel within two h | ng process wi um of two hou nours, then sa | ll continue unt irs), samples w mples can be c | til the well is p vill be collecte ollected after | ourged "dry". A | After the wate level is slow | r level has to recharge | | |

| LABELLA ASSOCIAT | -5 | | - | | | | BANA/ 04 | |
|--|------------------------------------|---|---|----------------------------|------------------------------------|----------------------|--------------|--|
| Environmental Engin | | | | | | Well I.D. Job No. | MW-01 | |
| Site Location: | 0. | Roblin Steel, Dunkirk, NY Job No. 12/5/2019 | | | | | | |
| Sample Date: LaBella Representative: | CK | , | - | | | | | |
| | | | | | | | | |
| Well I.D. | Initial Readings | 1 Well Volume | 2 Well Volumes | 3 Well Volume | Sample | Post Sample | Details | |
| Time | | | | | Sec. 1 | | | |
| Depth of well | | | | | | | | |
| Depth to water | | | | | | | | |
| Well diameter | | | | | | | | |
| Well volume (gallons) | | | | | | | | |
| Purging device | | | | | | | | |
| Containment device | | | | | | | | |
| Purge time | | | | | | | | |
| Gallons purged | | | | - | 255 W | | | |
| Sample device | 48.000 http:// | | | | | | | |
| Field Parameters | | | | | | | [| |
| Temperature | | NI WE | | | | | | |
| pH measurement | | 2010 | | | | | | |
| Conductivity (mS/cm) | | | | | | | | |
| ORP/Eh (mV) | | | | | | | | |
| Turbidity (NTUs) WEATHER: | 1.2 | 1 Dates of | Satistuda | 1121.24 | 10 F 14 - 14 | 1944 (A) (4) | | |
| NOTES/FIELD OBSERVATI | IONS: | | | | | | | |
| - LC G ESCL Well Volume Purge: 1 Well Volu (only if applicable) | ume = (Fotal V | vell Depth – | CA be for , (a Static Depth T ft = 0.3056 gz | to water) A | petres mole to Well Capacity | (b), like | ky fror | |
| Well Capacity (Gallons per Foot): 0.7 | | =0.04 1.5"= | The D. D. D. | | | | | |
| | 12"=5.88 | c | 61 | na an tin D | ding- | | | |
| 1. Stabilization Crite | ria for range o | or variation of | i last three co | nsecutive Rea | aings | | | |
| pH: ± 0.2 units; Temperatur | re: <u>+</u> 0.5 [°] C; S | pecific Condu | ictance: <u>+</u> 10% | <mark>%; Turbidity:</mark> | <u>≤ 50 NTU</u> | | | |
| A minimum of three well volumes event that groundwater recharge is returned to its pre-purge level (or v | slow, the purg | ing process w | ill continue un | til the well is | purged "dry". | After the wate | er level has | |

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 ASSOCIA Environmental Engi | . | | S | | | Well I.D. | EX-MW12 | | |
|--|---|--------------------------------|-----------------------------------|---------------------------------------|----------------------------------|---------------------------------|----------------------------|--|--|
| Site Location: | Roblin Stee | el Site, Dun | - i | Job No. | | | | | |
| Sample Date: | 12/5/2019 | | | | | | | | |
| LaBella Representative: | CK | | | | | | | | |
| Well I.D. | Initial Readings | 1 Well Volume | 2 Well Volumes | 3 Well Volume | Sample | Post Sample | Details | | |
| Time | 12:30 | 1235 | 1245 | 1250 | 1300 | | | | |
| Depth of well | 23.1' | | | | | | | | |
| Depth to water | 6.2 | | | | | | | | |
| Well diameter | 2" | | | | | | | | |
| Well volume (gallons) | 12.7 | - | | | | | | | |
| Purging device | P.P. | | | | | | | | |
| Containment device | Bucket | | | | | | | | |
| Purge time | | 0 | | | | | | | |
| Gallons purged | | 27 | 2,7 | 20 | | | | | |
| Sample device | | | | | | 2 | | | |
| Field Parameters | | | | | | | | | |
| Temperature | 8.1 | 7,4 | 7.4 | 7.3 | 7.2 | | | | |
| pH measurement | 7.24 | 7,21 | 7.20 | 7,19 | 7.21 | | | | |
| Conductivity (mS/cm) | 0888 | 0,818 | 0.792 | O.MI | 0,811 | | | | |
| ORP/Eh (mV) | 40,7 | 91.1 | (1216 | 40.1 | (12.2 | | | | |
| Turbidity (NTUs) | 478 | 446 | (181) | 44.1 | 421 | | | | |
| WEATHER: NOTES/FIELD OBSERVA | TIONS: | | | | | | | | |
| Well Volume Purge: 1 Well Vo (only if applicable) | ••••••••••••••••••••••••••••••••••••••• | - | Static Depth 7 ft = 0.3056 ga | | Well Capacity | y | | | |
| Well Capacity (Gallons per Foot): (|).75"= 0.02 1"= 12"=5.88 | 0.04 1.5" = | 0.092 2"= 0. | 16 3"= 0.37 | | | | | |
| 1. Stabilization Cri | | f variation of | last three co | nsecutive Rea | dings | | | | |
| pH: ± 0.2 units; Temperat | ure: $+0.5^{\circ}C$ S | ecific Condu | ctance: + 10% | : Turbidity: | < 50 NTU | | | | |
| print of a units, Temperati | | Condu | | , an orange | | | | | |
| A minimum of three well volume event that groundwater recharge eturned to its pre-purge level (or nd does not reach its pre-purge l | is slow, the purgi | ng process wi 1m of two hou | ll continue un irs), samples w | til the well is p vill be collecte | ourged "dry". d. If the water | After the wate level is slow | r level has to recharge | | |
| egree of recharge indicated in fi | | | | | | 8 | , | | |

| LABELLA ASSOCIATE Environmental Engine | 1.2 | | S | | | Well I.D. | MW-2R | | |
|--|-----------------------------------|--------------------|----------------------------------|------------------|---------------|----------------|---------|--|--|
| Site Location: | Roblin Stee | | Job No | 0 | | | | | |
| Sample Date: | 12/5/2019 | | | | | | | | |
| LaBella Representative: | СК | | - | r. | | | | | |
| Well I.D. | Initial Readings | 1 Well Volume | 2 Well Volumes | 3 Well Volume | Sample | Post Sample | Details | | |
| Time | 1310 | 1315 | 1320 | 1330 | 1340 | | | | |
| Depth of well | 23.25' | | | | | | | | |
| Depth to water | 95 | | | | | | λ | | |
| Well diameter | 2" | | | | | | | | |
| Well volume (gallons) | 3 | | | | | | | | |
| Purging device | P.P. | | | | | | | | |
| Containment device | Bucket | | | | | | | | |
| Purge time | | | | | | | | | |
| Gallons purged | | 3 | 3 | 3 | | | | | |
| Sample device | | | | | | | | | |
| Field Parameters | ~ ~ | | - + | | | | | | |
| Temperature |)9 | 7.4 | 1.8 | 7.8 | 7.6 | | | | |
| pH measurement | 231 |),52 | 7,41 | 7,31 | 7.36 | | | | |
| Conductivity (mS/cm) | 0.861 | 0.887 | 0.712 | 0769 | 0.778 | | | | |
| ORP/Eh (mV) | 37.5 | 364 | 35.4 | 35.8 | 331 | | | | |
| Turbidity (NTUs) | 13,7 | 12.4 | 12.1 | 12.2 | 12.3 | | | | |
| WEATHER: NOTES/FIELD OBSERVATIO | ONS: | | | | | | | | |
| Well Volume Purge: 1 Well Volu (only if applicable) | | | Static Depth T ft = 0.3056 ga | | Well Capacity | | | | |
| Well Capacity (Gallons per Foot): 0.75 | | 0.04 1.5" = | | | | | | | |
| 1. Stabilization Criter | | f variation of | f last three con | secutive Rea | dings | | | | |
| pH: <u>+</u> 0.2 units; Temperature | : <u>+</u> 0.5 ⁰ C; Sp | ecific Condu | ctance: <u>+</u> 10% | ; Turbidity: | ≤ 50 NTU | | | | |
| pH: \pm 0.2 units; Temperature: \pm 0.5 ⁰ C; Specific Conductance: \pm 10%; Turbidity: \leq 50 NTU minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the vent that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has turned 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 | | | | | | | | | |

| LABELLA ASSOCIAT Environmental Engin | | | 5 | | | Well I.D. | EX-MW11R | | | |
|---|-------------------------------------|--------------------------------|-----------------------------------|---------------------------------------|----------------------------------|------------------------------------|----------------------------|--|--|--|
| Site Location: | Roblin Stee | | Job No. | | | | | | | |
| Sample Date: | 12/5/2019 | | | | | | | | | |
| LaBella Representative: | CK | | | | | | | | | |
| Well I.D. | Initial Readings | 1 Well Volume | 2 Well Volumes | 3 Well Volume | Sample | Post Sample | Details | | | |
| Time | 1350 | 1400 | 1405 | 1410 | 1420 | | | | | |
| Depth of well | 18.65' | | | | | с. | | | | |
| Depth to water | 61 | | | | | | | | | |
| Well diameter | 2" | | | | | | | | | |
| Well volume (gallons) | 2 | | | | | | | | | |
| Purging device | P.P. | | | | | | | | | |
| Containment device | Bucket | | | | | | | | | |
| Purge time | | 0 | | | | | | | | |
| Gallons purged | | 2 | 9 | í) | | | | | | |
| Sample device | | | | | | | | | | |
| Field Parameters | | | | | | | | | | |
| Temperature | 8.1 | 7,9 | γ | 7.1 | \mathcal{D}_{i} | | | | | |
| pH measurement | 7.37 | 7.31 | 7.33 | 729 | 7.31 | | | | | |
| Conductivity (mS/cm) | 0,882 | 0.891 | 0812 | ()))) | 0,824 | | | | | |
| ORP/Eh (mV) | 42.7 | 434 | 44,1 | 43.6 | 4412 | | | | | |
| Turbidity (NTUs) | 2.34 | 277 | 3.14 | 312 | 3.09 | | | | | |
| WEATHER: NOTES/FIELD OBSERVATI | ONS: | | | | | | | | | |
| Well Volume Purge: 1 Well Volu only if applicable) | | | Static Depth T it = 0.3056 ga | | Vell Capacity | , | | | | |
| Well Capacity (Gallons per Foot): 0.7 | 5"= 0.02 1" = | 0.04 	 1.5" = 0 | | The second second second | | | | | | |
| 1. Stabilization Criter | 2"=5.88 ria for range of | f variation of | last three con | secutive Rea | dings | | | | | |
| | | | | | | | | | | |
| pH: <u>+</u> 0.2 units; Temperatur | e: <u>+</u> 0.5°C; Sp | ecific Condu | ctance: <u>+</u> 10% | o; Turbidity: | SUNIU | | | | | |
| A minimum of three well volumes event that groundwater recharge is eturned to its pre-purge level (or w and does not reach its pre-purge level | slow, the purgin vithin a maximu | ng process wi Im of two hou | ll continue uni rs), samples w | til the well is p vill be collecte | ourged "dry". d. If the water | After the water level is slow t | r level has to recharge | | | |



APPENDIX 6

Laboratory Analytical Results

🛟 eurofins

Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 480-163694-1

Client Project/Site: Alumax & Roblin Periodic Review Reports

For:

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

Attn: Chris Kibler

Aret

Authorized for release by: 12/12/2019 3:24:38 PM Alexander Gilbert, Project Management Assistant I alexander.gilbert@testamericainc.com

Designee for

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

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

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

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



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Definitions/Glossary

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

Qualifiers

| GC/MS VOA Qualifier | Qualifier Description |
|------------------------|--|
| * | LCS or LCSD is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossary

| 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 |
| 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) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| 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) |
| | |

Job ID: 480-163694-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-163694-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 12/5/2019 4:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5° C.

GC/MS VOA

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-12 (480-163694-1), MW-07R (480-163694-4) and MW-04 (480-163694-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: EX-MW-11R (480-163694-8). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-508640 recovered above the upper control limit for 2-Hexanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-12 (480-163694-1), MW-07R (480-163694-4), MW-04 (480-163694-5), EX-MW12 (480-163694-6), MW-02R (480-163694-7), EX-MW-11R (480-163694-8), AL-2 (480-163694-9), AL-7 (480-163694-11) and TRIP BLANK (480-163694-12).

Method 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with batch 508737. The following samples were affected : MW-09R (480-163694-2), FIELD DUPLICATE (480-163694-3) and AL-1 (480-163694-10).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-508737 recovered above the upper control limit for 2-Hexanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-09R (480-163694-2), FIELD DUPLICATE (480-163694-3) and AL-1 (480-163694-10).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-09R (480-163694-2) and AL-1 (480-163694-10). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-12

No Detections.

| Client Sample ID: MW- | Lab San | nple ID: 4 | 80-163694-2 | | | | |
|------------------------|---------------------------------|------------|-------------|------|-----------|--------|-------------|
| Analyte | Result Qualifier | RL | MDL | Unit | Dil Fac D | Method | Prep Type |
| Benzene | 3.5 J | 4.0 | 1.6 | ug/L | 4 | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 180 | 4.0 | 3.2 | ug/L | 4 | 8260C | Total/NA |
| Cyclohexane | 9.3 | 4.0 | 0.72 | ug/L | 4 | 8260C | Total/NA |
| Methylcyclohexane | 7.3 | 4.0 | 0.64 | ug/L | 4 | 8260C | Total/NA |
| Vinyl chloride | 110 | 4.0 | 3.6 | ug/L | 4 | 8260C | Total/NA |
| Client Sample ID: FIEL | ient Sample ID: FIELD DUPLICATE | | | | | | 80-163694-3 |

Client Sample ID: FIELD DUPLICATE

No Detections.

Client Sample ID: MW-07R

| | | | | | | - | |
|------------------------|------------------|-----|-----|------|---------|----------|-----------|
| Analyte | Result Qualifier | RL | MDL | Unit | Dil Fac | D Method | Prep Type |
| cis-1,2-Dichloroethene | | 4.0 | 3.2 | ug/L | 4 | 8260C | Total/NA |
| Vinyl chloride | 19 | 4.0 | 3.6 | ug/L | 4 | 8260C | Total/NA |

Client Sample ID: MW-04

No Detections.

Client Sample ID: EX-MW12

No Detections.

Client Sample ID: MW-02R

| Analyte | Result Qualifier | RL | MDL Unit | Dil Fac D | Method | Prep Type |
|------------------------|------------------|-----|-----------|-----------|--------|-----------|
| Benzene | 1.2 | 1.0 | 0.41 ug/L | 1 | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 21 | 1.0 | 0.81 ug/L | 1 | 8260C | Total/NA |
| Cyclohexane | 3.4 | 1.0 | 0.18 ug/L | 1 | 8260C | Total/NA |
| Methylcyclohexane | 0.99 J | 1.0 | 0.16 ug/L | 1 | 8260C | Total/NA |
| Vinyl chloride | 37 | 1.0 | 0.90 ug/L | 1 | 8260C | Total/NA |

Client Sample ID: EX-MW-11R

| Analyte | Result Qualifier | RL | MDL | Unit | Dil Fac | D Method | Prep Type |
|------------------------|------------------|----|-----|------|---------|----------|-----------|
| cis-1,2-Dichloroethene | 950 | 20 | 16 | ug/L | 20 | | Total/NA |
| Cyclohexane | 22 | 20 | 3.6 | ug/L | 20 | 8260C | Total/NA |
| Methylcyclohexane | 11 J | 20 | 3.2 | ug/L | 20 | 8260C | Total/NA |
| Vinyl chloride | 330 | 20 | 18 | ug/L | 20 | 8260C | Total/NA |

Client Sample ID: AL-2

| Analyte | Result Qualifier | RL | MDL | Unit | Dil Fac | D Method | Prep Type |
|------------------------|------------------|-----|------|------|---------|----------|-----------|
| Benzene | | 1.0 | 0.41 | ug/L | 1 | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 14 | 1.0 | 0.81 | ug/L | 1 | 8260C | Total/NA |
| Cyclohexane | 1.8 | 1.0 | 0.18 | ug/L | 1 | 8260C | Total/NA |
| Methylcyclohexane | 0.25 J | 1.0 | 0.16 | ug/L | 1 | 8260C | Total/NA |
| Vinyl chloride | 4.6 | 1.0 | 0.90 | ug/L | 1 | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

Job ID: 480-163694-1

Lab Sample ID: 480-163694-1

5

Lab Sample ID: 480-163694-6

Lab Sample ID: 480-163694-7

Lab Sample ID: 480-163694-8

Lab Sample ID: 480-163694-9

Lab Sample ID: 480-163694-5

Lab Sample ID: 480-163694-4

Detection Summary

RL

4.0

4.0

4.0

4.0

4.0

4.0

8.0

RL

1.0

1.0

1.0

1.0

MDL Unit

1.6 ug/L

3.2 ug/L

0.72 ug/L

0.64 ug/L

2.0 ug/L

3.6 ug/L

2.6 ug/L

MDL Unit

0.81 ug/L

0.18 ug/L

0.16 ug/L

0.90 ug/L

1

8260C

Lab Sample ID: 480-163694-12

Result Qualifier

33

180

37

24

4.9

160

2.0

1.0

1.4

0.33 J

4.2 J

Result Qualifier

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-1

Client Sample ID: AL-7

Analyte

Benzene

Toluene

Analyte

Cyclohexane

Vinyl chloride

Cyclohexane

Vinyl chloride

Xylenes, Total

cis-1,2-Dichloroethene

cis-1,2-Dichloroethene

Methylcyclohexane

Methylcyclohexane

| _ |
|---|
| |
| |
| |
| 5 |
| |
| |
| |
| 8 |
| 9 |
| |
| |
| |
| _ |

| Dil Fac | D Method | Prep Type | |
|-----------|-----------|--------------|----|
| 4 | 8260C | Total/NA | 4 |
| 4 | 8260C | Total/NA | |
| 4 | 8260C | Total/NA | 5 |
| 4 | 8260C | Total/NA | |
| 4 | 8260C | Total/NA | 6 |
| 4 | 8260C | Total/NA | |
| 4 | 8260C | Total/NA | 7 |
| Lab Sam | ple ID: 4 | 80-163694-11 | 8 |
| Dil Fac I | D Method | Prep Type | |
| 1 | 8260C | Total/NA | 9 |
| 1 | 8260C | Total/NA | |
| 1 | 8260C | Total/NA | 10 |

Total/NA

Lab Sample ID: 480-163694-10

Client Sample ID: TRIP BLANK

No Detections.

This Detection Summary does not include radiochemical test results.

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-12 Date Collected: 12/05/19 09:20 Date Received: 12/05/19 16:45

| loh | ın | 480- | 1636 | 94-1 |
|-----|-----|------|------|------|
| 500 | ID. | 400- | 1030 | 34-1 |

Lab Sample ID: 480-163694-1

Matrix: Water

5

| Method: 8260C - Volatile Organ Analyte | Result Qualifier | RL | MDL | | D | Prepared | Analyzed | Dil Fac |
|---|------------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | 2.0 | 1.6 | ug/L | | | 12/07/19 16:07 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | 0.42 | ug/L | | | 12/07/19 16:07 | 2 |
| 1,1,2-Trichloroethane | ND | 2.0 | 0.46 | ug/L | | | 12/07/19 16:07 | 2 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 2.0 | 0.62 | ug/L | | | 12/07/19 16:07 | 2 |
| 1,1-Dichloroethane | ND | 2.0 | 0.76 | ug/L | | | 12/07/19 16:07 | 2 |
| 1,1-Dichloroethene | ND | 2.0 | 0.58 | ug/L | | | 12/07/19 16:07 | 2 |
| 1,2,4-Trichlorobenzene | ND | 2.0 | 0.82 | ug/L | | | 12/07/19 16:07 | 2 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.78 | - | | | 12/07/19 16:07 | 2 |
| 1,2-Dichlorobenzene | ND | 2.0 | 1.6 | ug/L | | | 12/07/19 16:07 | 2 |
| 1,2-Dichloroethane | ND | 2.0 | 0.42 | - | | | 12/07/19 16:07 | 2 |
| 1,2-Dichloropropane | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| 1,3-Dichlorobenzene | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| 1,4-Dichlorobenzene | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| 2-Butanone (MEK) | ND | 20 | | ug/L | | | 12/07/19 16:07 | 2 |
| 2-Hexanone | ND | 10 | | ug/L | | | 12/07/19 16:07 | 2 |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | | ug/L | | | 12/07/19 16:07 | 2 |
| Acetone | ND | 20 | | ug/L | | | 12/07/19 16:07 | 2 |
| Benzene | ND | 2.0 | 0.82 | - | | | 12/07/19 16:07 | 2 |
| Bromodichloromethane | ND | 2.0 | 0.78 | • | | | 12/07/19 16:07 | 2 |
| Bromoform | ND | 2.0 | 0.70 | - | | | 12/07/19 16:07 | 2 |
| Bromomethane | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| Carbon disulfide | ND | 2.0 | 0.38 | - | | | 12/07/19 16:07 | 2 |
| Carbon tetrachloride | ND | 2.0 | 0.54 | - | | | 12/07/19 16:07 | 2 |
| Chlorobenzene | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| Dibromochloromethane | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| | ND | 2.0 | | - | | | | |
| Chloroethane | | | 0.64 | - | | | 12/07/19 16:07 | 2 |
| Chloroform | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| Chloromethane | ND | 2.0 | 0.70 | • | | | 12/07/19 16:07 | 2 |
| cis-1,2-Dichloroethene | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| cis-1,3-Dichloropropene | ND | 2.0 | 0.72 | 0 | | | 12/07/19 16:07 | 2 |
| Cyclohexane | ND | 2.0 | 0.36 | - | | | 12/07/19 16:07 | 2 |
| Dichlorodifluoromethane | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| Ethylbenzene | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| 1,2-Dibromoethane | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| Isopropylbenzene | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| Methyl acetate | ND | 5.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| Methyl tert-butyl ether | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| Methylcyclohexane | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| Methylene Chloride | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| Styrene | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| Tetrachloroethene | ND | 2.0 | 0.72 | ug/L | | | 12/07/19 16:07 | 2 |
| Toluene | ND | 2.0 | | ug/L | | | 12/07/19 16:07 | 2 |
| trans-1,2-Dichloroethene | ND | 2.0 | 1.8 | ug/L | | | 12/07/19 16:07 | 2 |
| trans-1,3-Dichloropropene | ND | 2.0 | 0.74 | ug/L | | | 12/07/19 16:07 | 2 |
| Trichloroethene | ND | 2.0 | 0.92 | ug/L | | | 12/07/19 16:07 | 2 |
| Trichlorofluoromethane | ND | 2.0 | 1.8 | ug/L | | | 12/07/19 16:07 | 2 |
| Vinyl chloride | ND | 2.0 | 1.8 | ug/L | | | 12/07/19 16:07 | 2 |
| Xylenes, Total | ND | 4.0 | 1.3 | ug/L | | | 12/07/19 16:07 | 2 |

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports Job ID: 480-163694-1

Matrix: Water

Lab Sample ID: 480-163694-2

Client Sample ID: MW-12 Date Collected: 12/05/19 09:20 Date Received: 12/05/19 16:45

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|---------------------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 99 | 80 - 120 | | 12/07/19 16:07 | 2 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | 77 - 120 | | 12/07/19 16:07 | 2 |
| 4-Bromofluorobenzene (Surr) | 99 | 73 - 120 | | 12/07/19 16:07 | 2 |
| Dibromofluoromethane (Surr) | 99 | 75 - 123 | | 12/07/19 16:07 | 2 |

Client Sample ID: MW-09R

Date Collected: 12/05/19 10:45 Date Received: 12/05/19 16:45

| Analyte | Result Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | 4.0 | 3.3 | ug/L | | | 12/09/19 11:32 | 4 |
| 1,1,2,2-Tetrachloroethane | ND | 4.0 | 0.84 | ug/L | | | 12/09/19 11:32 | 4 |
| 1,1,2-Trichloroethane | ND | 4.0 | 0.92 | ug/L | | | 12/09/19 11:32 | 4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 4.0 | 1.2 | ug/L | | | 12/09/19 11:32 | 4 |
| 1,1-Dichloroethane | ND | 4.0 | 1.5 | ug/L | | | 12/09/19 11:32 | 4 |
| 1,1-Dichloroethene | ND | 4.0 | 1.2 | ug/L | | | 12/09/19 11:32 | 4 |
| 1,2,4-Trichlorobenzene | ND | 4.0 | 1.6 | ug/L | | | 12/09/19 11:32 | 4 |
| 1,2-Dibromo-3-Chloropropane | ND | 4.0 | 1.6 | ug/L | | | 12/09/19 11:32 | 4 |
| 1,2-Dichlorobenzene | ND | 4.0 | 3.2 | ug/L | | | 12/09/19 11:32 | 4 |
| 1,2-Dichloroethane | ND | 4.0 | 0.84 | ug/L | | | 12/09/19 11:32 | 4 |
| 1,2-Dichloropropane | ND | 4.0 | 2.9 | ug/L | | | 12/09/19 11:32 | 4 |
| 1,3-Dichlorobenzene | ND | 4.0 | 3.1 | ug/L | | | 12/09/19 11:32 | 4 |
| 1,4-Dichlorobenzene | ND | 4.0 | 3.4 | ug/L | | | 12/09/19 11:32 | 4 |
| 2-Butanone (MEK) | ND * | 40 | 5.3 | ug/L | | | 12/09/19 11:32 | 4 |
| 2-Hexanone | ND | 20 | 5.0 | ug/L | | | 12/09/19 11:32 | 4 |
| 4-Methyl-2-pentanone (MIBK) | ND | 20 | 8.4 | ug/L | | | 12/09/19 11:32 | 4 |
| Acetone | ND | 40 | 12 | ug/L | | | 12/09/19 11:32 | 4 |
| Benzene | 3.5 J | 4.0 | 1.6 | ug/L | | | 12/09/19 11:32 | 4 |
| Bromodichloromethane | ND | 4.0 | 1.6 | ug/L | | | 12/09/19 11:32 | 4 |
| Bromoform | ND | 4.0 | 1.0 | ug/L | | | 12/09/19 11:32 | 4 |
| Bromomethane | ND | 4.0 | 2.8 | ug/L | | | 12/09/19 11:32 | 4 |
| Carbon disulfide | ND | 4.0 | 0.76 | ug/L | | | 12/09/19 11:32 | 4 |
| Carbon tetrachloride | ND | 4.0 | 1.1 | ug/L | | | 12/09/19 11:32 | 4 |
| Chlorobenzene | ND | 4.0 | 3.0 | ug/L | | | 12/09/19 11:32 | 4 |
| Dibromochloromethane | ND | 4.0 | 1.3 | ug/L | | | 12/09/19 11:32 | 4 |
| Chloroethane | ND | 4.0 | 1.3 | ug/L | | | 12/09/19 11:32 | 4 |
| Chloroform | ND | 4.0 | 1.4 | ug/L | | | 12/09/19 11:32 | 4 |
| Chloromethane | ND | 4.0 | 1.4 | ug/L | | | 12/09/19 11:32 | 4 |
| cis-1,2-Dichloroethene | 180 | 4.0 | 3.2 | ug/L | | | 12/09/19 11:32 | 4 |
| cis-1,3-Dichloropropene | ND | 4.0 | 1.4 | ug/L | | | 12/09/19 11:32 | 4 |
| Cyclohexane | 9.3 | 4.0 | 0.72 | ug/L | | | 12/09/19 11:32 | 4 |
| Dichlorodifluoromethane | ND | 4.0 | 2.7 | ug/L | | | 12/09/19 11:32 | 4 |
| Ethylbenzene | ND | 4.0 | 3.0 | ug/L | | | 12/09/19 11:32 | 4 |
| 1,2-Dibromoethane | ND | 4.0 | 2.9 | ug/L | | | 12/09/19 11:32 | 4 |
| Isopropylbenzene | ND | 4.0 | | ug/L | | | 12/09/19 11:32 | 4 |
| Methyl acetate | ND | 10 | | ug/L | | | 12/09/19 11:32 | 4 |
| Methyl tert-butyl ether | ND | 4.0 | 0.64 | ug/L | | | 12/09/19 11:32 | 4 |
| Methylcyclohexane | 7.3 | 4.0 | 0.64 | ug/L | | | 12/09/19 11:32 | 4 |
| Methylene Chloride | ND | 4.0 | 1.8 | ug/L | | | 12/09/19 11:32 | 4 |

Eurofins TestAmerica, Buffalo

RL

4.0

4.0

4.0

4.0

4.0

4.0

4.0

4.0

8.0

Limits

80 - 120

77 - 120

73 - 120

75 - 123

MDL Unit

2.9 ug/L

1.4 ug/L

2.0 ug/L

3.6 ug/L

1.5 ug/L

1.8 ug/L

3.5 ug/L

3.6 ug/L

2.6 ug/L

D

Prepared

Prepared

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

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

Result Qualifier

ND

ND

ND

ND

ND

ND

ND

110

ND

102

96

98

98

%Recovery

Qualifier

Client Sample ID: MW-09R Date Collected: 12/05/19 10:45 Date Received: 12/05/19 16:45

Analyte

Styrene

Toluene

Tetrachloroethene

Trichloroethene

Vinyl chloride

Xylenes, Total

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Surrogate

trans-1,2-Dichloroethene

Trichlorofluoromethane

trans-1,3-Dichloropropene

Job ID: 480-163694-1

Lab Sample ID: 480-163694-2

Analyzed

12/09/19 11:32

12/09/19 11:32

12/09/19 11:32

12/09/19 11:32

12/09/19 11:32

12/09/19 11:32

12/09/19 11:32

12/09/19 11:32

12/09/19 11:32

Analyzed

12/09/19 11:32

12/09/19 11:32

12/09/19 11:32

12/09/19 11:32

Lab Sample ID: 480-163694-3

Matrix: Water

Dil Fac

4

4

4

4

4

4

4

4

4

4

4

4

4

Dil Fac

Matrix: Water

Dibromofluoromethane (Surr) Client Sample ID: FIELD DUPLICATE Date Collected: 12/05/19 09:20

Date Received: 12/05/19 16:45

| Analyte | Result Qualifier | RL | MDL | | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | 1.0 | 0.82 | ug/L | | | 12/09/19 11:57 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.21 | ug/L | | | 12/09/19 11:57 | 1 |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/L | | | 12/09/19 11:57 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | 0.31 | ug/L | | | 12/09/19 11:57 | 1 |
| 1,1-Dichloroethane | ND | 1.0 | 0.38 | ug/L | | | 12/09/19 11:57 | 1 |
| 1,1-Dichloroethene | ND | 1.0 | 0.29 | ug/L | | | 12/09/19 11:57 | 1 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.41 | ug/L | | | 12/09/19 11:57 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | 1.0 | 0.39 | ug/L | | | 12/09/19 11:57 | 1 |
| 1,2-Dichlorobenzene | ND | 1.0 | 0.79 | ug/L | | | 12/09/19 11:57 | 1 |
| 1,2-Dichloroethane | ND | 1.0 | 0.21 | ug/L | | | 12/09/19 11:57 | 1 |
| 1,2-Dichloropropane | ND | 1.0 | 0.72 | ug/L | | | 12/09/19 11:57 | 1 |
| 1,3-Dichlorobenzene | ND | 1.0 | 0.78 | ug/L | | | 12/09/19 11:57 | 1 |
| 1,4-Dichlorobenzene | ND | 1.0 | 0.84 | ug/L | | | 12/09/19 11:57 | 1 |
| 2-Butanone (MEK) | ND * | 10 | 1.3 | ug/L | | | 12/09/19 11:57 | 1 |
| 2-Hexanone | ND | 5.0 | 1.2 | ug/L | | | 12/09/19 11:57 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | 2.1 | ug/L | | | 12/09/19 11:57 | 1 |
| Acetone | ND | 10 | 3.0 | ug/L | | | 12/09/19 11:57 | 1 |
| Benzene | ND | 1.0 | 0.41 | ug/L | | | 12/09/19 11:57 | 1 |
| Bromodichloromethane | ND | 1.0 | 0.39 | ug/L | | | 12/09/19 11:57 | 1 |
| Bromoform | ND | 1.0 | 0.26 | ug/L | | | 12/09/19 11:57 | 1 |
| Bromomethane | ND | 1.0 | 0.69 | ug/L | | | 12/09/19 11:57 | 1 |
| Carbon disulfide | ND | 1.0 | 0.19 | ug/L | | | 12/09/19 11:57 | 1 |
| Carbon tetrachloride | ND | 1.0 | 0.27 | ug/L | | | 12/09/19 11:57 | 1 |
| Chlorobenzene | ND | 1.0 | 0.75 | ug/L | | | 12/09/19 11:57 | 1 |
| Dibromochloromethane | ND | 1.0 | 0.32 | ug/L | | | 12/09/19 11:57 | 1 |
| Chloroethane | ND | 1.0 | 0.32 | ug/L | | | 12/09/19 11:57 | 1 |
| Chloroform | ND | 1.0 | 0.34 | ug/L | | | 12/09/19 11:57 | 1 |
| Chloromethane | ND | 1.0 | 0.35 | ug/L | | | 12/09/19 11:57 | 1 |

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: FIELD DUPLICATE Date Collected: 12/05/19 09:20 Date Received: 12/05/19 16:45

| loh | ın | 100 162604 - | 1 |
|-----|-----|--------------|---|
| JOD | ID: | 480-163694- | L |

Lab Sample ID: 480-163694-3

Matrix: Water

| cis-1,2-Dichloroethene | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|--------|------|------|---|----------|----------------|---------|
| | ND | | 1.0 | 0.81 | ug/L | | | 12/09/19 11:57 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 12/09/19 11:57 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 12/09/19 11:57 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 12/09/19 11:57 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 12/09/19 11:57 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 12/09/19 11:57 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 12/09/19 11:57 | 1 |
| Methyl acetate | ND | | 2.5 | 1.3 | ug/L | | | 12/09/19 11:57 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 12/09/19 11:57 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 12/09/19 11:57 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 12/09/19 11:57 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 12/09/19 11:57 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 12/09/19 11:57 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 12/09/19 11:57 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 12/09/19 11:57 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 12/09/19 11:57 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 12/09/19 11:57 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 12/09/19 11:57 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 12/09/19 11:57 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 12/09/19 11:57 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 98 | | 80 - 120 | | 12/09/19 11:57 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 77 - 120 | | 12/09/19 11:57 | 1 |
| 4-Bromofluorobenzene (Surr) | 95 | | 73 - 120 | | 12/09/19 11:57 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 75 - 123 | | 12/09/19 11:57 | 1 |

Client Sample ID: MW-07R Date Collected: 12/05/19 11:30 Date Received: 12/05/19 16:45

Method: 8260C - Volatile Organic Compounds by GC/MS Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac ND 1,1,1-Trichloroethane 4.0 3.3 12/07/19 17:19 ug/L 4 1,1,2,2-Tetrachloroethane ND 4.0 12/07/19 17:19 0.84 ug/L 4 1,1,2-Trichloroethane ND 4.0 0.92 ug/L 12/07/19 17:19 4 1,1,2-Trichloro-1,2,2-trifluoroethane ND 4.0 1.2 ug/L 12/07/19 17:19 4 1,1-Dichloroethane ND 4.0 1.5 ug/L 4 12/07/19 17:19 1,1-Dichloroethene ND 4.0 1.2 ug/L 12/07/19 17:19 4 1,2,4-Trichlorobenzene ND 4.0 4 1.6 ug/L 12/07/19 17:19 1,2-Dibromo-3-Chloropropane ND 4.0 1.6 ug/L 12/07/19 17:19 4 1,2-Dichlorobenzene ND 4.0 3.2 ug/L 4 12/07/19 17:19 1,2-Dichloroethane ND 4.0 0.84 ug/L 12/07/19 17:19 4 1,2-Dichloropropane ND 4.0 2.9 ug/L 12/07/19 17:19 4 3.1 ug/L ND 1,3-Dichlorobenzene 4.0 12/07/19 17:19 4 1.4-Dichlorobenzene ND 4.0 3.4 ug/L 12/07/19 17:19 4 2-Butanone (MEK) ND 40 5.3 ug/L 12/07/19 17:19 4 2-Hexanone ND 20 5.0 ug/L 12/07/19 17:19 4 ND 20 4-Methyl-2-pentanone (MIBK) 8.4 ug/L 12/07/19 17:19 4 Acetone ND 40 12 ug/L 12/07/19 17:19 4

Eurofins TestAmerica, Buffalo

Lab Sample ID: 480-163694-4

Matrix: Water

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-07R Date Collected: 12/05/19 11:30 Date Received: 12/05/19 16:45

| Job | ID: | 480- | 163694-1 | 1 |
|-----|-----|------|----------|---|
|-----|-----|------|----------|---|

Lab Sample ID: 480-163694-4

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Benzene | ND | | 4.0 | 1.6 | ug/L | | | 12/07/19 17:19 | 4 |
| Bromodichloromethane | ND | | 4.0 | 1.6 | ug/L | | | 12/07/19 17:19 | 4 |
| Bromoform | ND | | 4.0 | 1.0 | ug/L | | | 12/07/19 17:19 | 4 |
| Bromomethane | ND | | 4.0 | 2.8 | ug/L | | | 12/07/19 17:19 | 4 |
| Carbon disulfide | ND | | 4.0 | 0.76 | ug/L | | | 12/07/19 17:19 | 4 |
| Carbon tetrachloride | ND | | 4.0 | 1.1 | ug/L | | | 12/07/19 17:19 | 4 |
| Chlorobenzene | ND | | 4.0 | 3.0 | ug/L | | | 12/07/19 17:19 | 4 |
| Dibromochloromethane | ND | | 4.0 | 1.3 | ug/L | | | 12/07/19 17:19 | 4 |
| Chloroethane | ND | | 4.0 | 1.3 | ug/L | | | 12/07/19 17:19 | 4 |
| Chloroform | ND | | 4.0 | 1.4 | ug/L | | | 12/07/19 17:19 | 4 |
| Chloromethane | ND | | 4.0 | 1.4 | ug/L | | | 12/07/19 17:19 | 4 |
| cis-1,2-Dichloroethene | 16 | | 4.0 | 3.2 | ug/L | | | 12/07/19 17:19 | 4 |
| cis-1,3-Dichloropropene | ND | | 4.0 | 1.4 | ug/L | | | 12/07/19 17:19 | 4 |
| Cyclohexane | ND | | 4.0 | 0.72 | ug/L | | | 12/07/19 17:19 | 4 |
| Dichlorodifluoromethane | ND | | 4.0 | 2.7 | ug/L | | | 12/07/19 17:19 | 4 |
| Ethylbenzene | ND | | 4.0 | 3.0 | ug/L | | | 12/07/19 17:19 | 4 |
| 1,2-Dibromoethane | ND | | 4.0 | 2.9 | ug/L | | | 12/07/19 17:19 | 4 |
| Isopropylbenzene | ND | | 4.0 | 3.2 | ug/L | | | 12/07/19 17:19 | 4 |
| Methyl acetate | ND | | 10 | 5.2 | ug/L | | | 12/07/19 17:19 | 4 |
| Methyl tert-butyl ether | ND | | 4.0 | 0.64 | ug/L | | | 12/07/19 17:19 | 4 |
| Methylcyclohexane | ND | | 4.0 | 0.64 | ug/L | | | 12/07/19 17:19 | 4 |
| Methylene Chloride | ND | | 4.0 | 1.8 | ug/L | | | 12/07/19 17:19 | 4 |
| Styrene | ND | | 4.0 | 2.9 | ug/L | | | 12/07/19 17:19 | 4 |
| Tetrachloroethene | ND | | 4.0 | 1.4 | ug/L | | | 12/07/19 17:19 | 4 |
| Toluene | ND | | 4.0 | 2.0 | ug/L | | | 12/07/19 17:19 | 4 |
| trans-1,2-Dichloroethene | ND | | 4.0 | 3.6 | ug/L | | | 12/07/19 17:19 | 4 |
| trans-1,3-Dichloropropene | ND | | 4.0 | 1.5 | ug/L | | | 12/07/19 17:19 | 4 |
| Trichloroethene | ND | | 4.0 | 1.8 | ug/L | | | 12/07/19 17:19 | 4 |
| Trichlorofluoromethane | ND | | 4.0 | 3.5 | ug/L | | | 12/07/19 17:19 | 4 |
| Vinyl chloride | 19 | | 4.0 | 3.6 | ug/L | | | 12/07/19 17:19 | 4 |
| Xylenes, Total | ND | | 8.0 | 2.6 | ug/L | | | 12/07/19 17:19 | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 99 | | 80 - 120 | | | | | 12/07/19 17:19 | 4 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 77 - 120 | | | | | 12/07/19 17:19 | 4 |
| | | | | | | | | | |

Client Sample ID: MW-04

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Date Collected: 12/05/19 12:05 Date Received: 12/05/19 16:45

| Method: 8260C - Volatile Orga | nic 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 | | | 12/07/19 17:43 | 4 |
| 1,1,2,2-Tetrachloroethane | ND | 4.0 | 0.84 ug/L | | | 12/07/19 17:43 | 4 |
| 1,1,2-Trichloroethane | ND | 4.0 | 0.92 ug/L | | | 12/07/19 17:43 | 4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 4.0 | 1.2 ug/L | | | 12/07/19 17:43 | 4 |
| 1,1-Dichloroethane | ND | 4.0 | 1.5 ug/L | | | 12/07/19 17:43 | 4 |
| 1,1-Dichloroethene | ND | 4.0 | 1.2 ug/L | | | 12/07/19 17:43 | 4 |

73 - 120

75 - 123

95

99

Eurofins TestAmerica, Buffalo

12/07/19 17:19

12/07/19 17:19

Lab Sample ID: 480-163694-5

4

4

Matrix: Water

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-04 Date Collected: 12/05/19 12:05 Date Received: 12/05/19 16:45

| Job | ID: | 480-163694-1 | |
|-----|-----|--------------|--|
| 000 | ·D. | 400 100004 1 | |

Lab Sample ID: 480-163694-5

Matrix: Water

5

| Analyte | | Qualifier | RL | MDL | | D | Prepared | Analyzed | Dil Fac |
|--|-----------|-----------|----------------------|------|--------------|---|----------|----------------------------------|---------------------------------------|
| 1,2,4-Trichlorobenzene | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 4 |
| 1,2-Dibromo-3-Chloropropane | ND | | 4.0 | 1.6 | ug/L | | | 12/07/19 17:43 | 4 |
| 1,2-Dichlorobenzene | ND | | 4.0 | 3.2 | ug/L | | | 12/07/19 17:43 | 4 |
| 1,2-Dichloroethane | ND | | 4.0 | 0.84 | - | | | 12/07/19 17:43 | 4 |
| 1,2-Dichloropropane | ND | | 4.0 | 2.9 | ug/L | | | 12/07/19 17:43 | 4 |
| 1,3-Dichlorobenzene | ND | | 4.0 | 3.1 | ug/L | | | 12/07/19 17:43 | 4 |
| 1,4-Dichlorobenzene | ND | | 4.0 | 3.4 | ug/L | | | 12/07/19 17:43 | 4 |
| 2-Butanone (MEK) | ND | | 40 | 5.3 | ug/L | | | 12/07/19 17:43 | 4 |
| 2-Hexanone | ND | | 20 | 5.0 | ug/L | | | 12/07/19 17:43 | 4 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 20 | 8.4 | ug/L | | | 12/07/19 17:43 | 4 |
| Acetone | ND | | 40 | 12 | ug/L | | | 12/07/19 17:43 | 4 |
| Benzene | ND | | 4.0 | 1.6 | ug/L | | | 12/07/19 17:43 | 4 |
| Bromodichloromethane | ND | | 4.0 | 1.6 | ug/L | | | 12/07/19 17:43 | 4 |
| Bromoform | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 4 |
| Bromomethane | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 2 |
| Carbon disulfide | ND | | 4.0 | 0.76 | - | | | 12/07/19 17:43 | · · · · · · · · · · · · · · · · · · · |
| Carbon tetrachloride | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 4 |
| Chlorobenzene | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 2 |
| Dibromochloromethane | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 4 |
| Chloroethane | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 4 |
| Chloroform | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 4 |
| Chloromethane | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 4 |
| cis-1,2-Dichloroethene | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 4 |
| cis-1,3-Dichloropropene | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 4 |
| Cyclohexane | ND | | 4.0 | 0.72 | | | | 12/07/19 17:43 | 4 |
| Dichlorodifluoromethane | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 4 |
| Ethylbenzene | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 2 |
| 1,2-Dibromoethane | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 4 |
| sopropylbenzene | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 4 |
| Methyl acetate | ND | | 10 | | ug/L | | | 12/07/19 17:43 | 4 |
| Methyl tert-butyl ether | ND | | 4.0 | 0.64 | | | | 12/07/19 17:43 | 4 |
| Methylcyclohexane | ND | | 4.0 | 0.64 | - | | | 12/07/19 17:43 | |
| Methylene Chloride | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | |
| Styrene | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | |
| Tetrachloroethene | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | - |
| | | | | | - | | | | 4 |
| Toluene | ND | | 4.0 | | ug/L ug/L | | | 12/07/19 17:43 12/07/19 17:43 | , |
| rans-1,2-Dichloroethene | ND | | 4.0 | | - | | | | 4 |
| trans-1,3-Dichloropropene Trichloroethene | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 4 |
| Trichloroethene | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | |
| | ND | | 4.0 | | ug/L | | | 12/07/19 17:43 | 2 |
| Vinyl chloride Xylenes, Total | ND ND | | 4.0 8.0 | | ug/L ug/L | | | 12/07/19 17:43 12/07/19 17:43 | 2 |
| | | Qualifier | | | ··• | | Bronered | | |
| Surrogate Toluene-d8 (Surr) | %Recovery | Quaimer | Limits 80 - 120 | | | | Prepared | Analyzed 12/07/19 17:43 | Dil Fa |
| () | | | | | | | | | 4 |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 77 - 120 | | | | | 12/07/19 17:43 | 2 |
| 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) | 99 104 | | 73 - 120 75 - 123 | | | | | 12/07/19 17:43 12/07/19 17:43 | |

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: EX-MW12 Date Collected: 12/05/19 13:00 Date Received: 12/05/19 16:45

| .lob | ١D· | 480-1 | 163694-1 | 1 |
|------|-----|-------|----------|---|
| 000 | 10. | 700 1 | 100004 | |

Lab Sample ID: 480-163694-6

Matrix: Water

5

6

| Method: 8260C - Volatile Organ | Result Qualifier | RL | MDL | | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | 1.0 | 0.82 | | | | 12/07/19 18:08 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.21 | - | | | 12/07/19 18:08 | 1 |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | - | | | 12/07/19 18:08 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | 0.31 | ug/L | | | 12/07/19 18:08 | 1 |
| 1,1-Dichloroethane | ND | 1.0 | 0.38 | ug/L | | | 12/07/19 18:08 | 1 |
| 1,1-Dichloroethene | ND | 1.0 | 0.29 | ug/L | | | 12/07/19 18:08 | 1 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.41 | ug/L | | | 12/07/19 18:08 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | 1.0 | 0.39 | ug/L | | | 12/07/19 18:08 | 1 |
| 1,2-Dichlorobenzene | ND | 1.0 | 0.79 | ug/L | | | 12/07/19 18:08 | 1 |
| 1,2-Dichloroethane | ND | 1.0 | 0.21 | ug/L | | | 12/07/19 18:08 | 1 |
| 1,2-Dichloropropane | ND | 1.0 | 0.72 | ug/L | | | 12/07/19 18:08 | 1 |
| 1,3-Dichlorobenzene | ND | 1.0 | 0.78 | ug/L | | | 12/07/19 18:08 | 1 |
| 1,4-Dichlorobenzene | ND | 1.0 | | ug/L | | | 12/07/19 18:08 | 1 |
| 2-Butanone (MEK) | ND | 10 | | ug/L | | | 12/07/19 18:08 | 1 |
| 2-Hexanone | ND | 5.0 | | ug/L | | | 12/07/19 18:08 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | | ug/L | | | 12/07/19 18:08 | |
| Acetone | ND | 10 | | ug/L | | | 12/07/19 18:08 | 1 |
| Benzene | ND | 1.0 | 0.41 | - | | | 12/07/19 18:08 | 1 |
| Bromodichloromethane | ND | 1.0 | 0.39 | | | | 12/07/19 18:08 | |
| Bromoform | ND | 1.0 | 0.26 | - | | | 12/07/19 18:08 | 1 |
| Bromomethane | ND | 1.0 | 0.20 | - | | | 12/07/19 18:08 | 1 |
| Carbon disulfide | ND | 1.0 | 0.09 | 0 | | | 12/07/19 18:08 | 1 |
| Carbon tetrachloride | ND | 1.0 | 0.13 | - | | | 12/07/19 18:08 | 1 |
| | ND | 1.0 | 0.27 | - | | | 12/07/19 18:08 | 1 |
| Chlorobenzene | | | | - | | | | |
| Dibromochloromethane | ND | 1.0 | 0.32 | - | | | 12/07/19 18:08 | 1 |
| Chloroethane | ND | 1.0 | 0.32 | - | | | 12/07/19 18:08 | 1 |
| Chloroform | ND | 1.0 | 0.34 | - | | | 12/07/19 18:08 | 1 |
| Chloromethane | ND | 1.0 | 0.35 | - | | | 12/07/19 18:08 | 1 |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.81 | - | | | 12/07/19 18:08 | 1 |
| cis-1,3-Dichloropropene | ND | 1.0 | 0.36 | - | | | 12/07/19 18:08 | 1 |
| Cyclohexane | ND | 1.0 | | ug/L | | | 12/07/19 18:08 | 1 |
| Dichlorodifluoromethane | ND | 1.0 | 0.68 | - | | | 12/07/19 18:08 | 1 |
| Ethylbenzene | ND | 1.0 | | ug/L | | | 12/07/19 18:08 | 1 |
| 1,2-Dibromoethane | ND | 1.0 | | ug/L | | | 12/07/19 18:08 | 1 |
| sopropylbenzene | ND | 1.0 | | ug/L | | | 12/07/19 18:08 | 1 |
| Methyl acetate | ND | 2.5 | 1.3 | ug/L | | | 12/07/19 18:08 | 1 |
| Methyl tert-butyl ether | ND | 1.0 | 0.16 | ug/L | | | 12/07/19 18:08 | 1 |
| Methylcyclohexane | ND | 1.0 | 0.16 | ug/L | | | 12/07/19 18:08 | 1 |
| Methylene Chloride | ND | 1.0 | 0.44 | ug/L | | | 12/07/19 18:08 | 1 |
| Styrene | ND | 1.0 | 0.73 | ug/L | | | 12/07/19 18:08 | 1 |
| Tetrachloroethene | ND | 1.0 | 0.36 | ug/L | | | 12/07/19 18:08 | 1 |
| Toluene | ND | 1.0 | 0.51 | ug/L | | | 12/07/19 18:08 | 1 |
| rans-1,2-Dichloroethene | ND | 1.0 | 0.90 | ug/L | | | 12/07/19 18:08 | 1 |
| rans-1,3-Dichloropropene | ND | 1.0 | | ug/L | | | 12/07/19 18:08 | 1 |
| Trichloroethene | ND | 1.0 | | ug/L | | | 12/07/19 18:08 | 1 |
| Trichlorofluoromethane | ND | 1.0 | | ug/L | | | 12/07/19 18:08 | 1 |
| Vinyl chloride | ND | 1.0 | | ug/L | | | 12/07/19 18:08 | 1 |
| Xylenes, Total | ND | 2.0 | 0.66 | - | | | 12/07/19 18:08 | 1 |

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: EX-MW12 Date Collected: 12/05/19 13:00 Date Received: 12/05/19 16:45

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|---------------------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 98 | 80 - 120 | | 12/07/19 18:08 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 98 | 77 - 120 | | 12/07/19 18:08 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | 73 - 120 | | 12/07/19 18:08 | 1 |
| Dibromofluoromethane (Surr) | 98 | 75 - 123 | | 12/07/19 18:08 | 1 |

Client Sample ID: MW-02R

Date Collected: 12/05/19 13:40 Date Received: 12/05/19 16:45

| Analyte | Result Qualifier | RL | MDL | | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | 1.0 | 0.82 | ug/L | | | 12/07/19 18:32 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | | ug/L | | | 12/07/19 18:32 | 1 |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/L | | | 12/07/19 18:32 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | 0.31 | ug/L | | | 12/07/19 18:32 | 1 |
| 1,1-Dichloroethane | ND | 1.0 | 0.38 | ug/L | | | 12/07/19 18:32 | 1 |
| 1,1-Dichloroethene | ND | 1.0 | 0.29 | ug/L | | | 12/07/19 18:32 | 1 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.41 | ug/L | | | 12/07/19 18:32 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | 1.0 | 0.39 | ug/L | | | 12/07/19 18:32 | 1 |
| 1,2-Dichlorobenzene | ND | 1.0 | 0.79 | ug/L | | | 12/07/19 18:32 | 1 |
| 1,2-Dichloroethane | ND | 1.0 | 0.21 | ug/L | | | 12/07/19 18:32 | 1 |
| 1,2-Dichloropropane | ND | 1.0 | 0.72 | ug/L | | | 12/07/19 18:32 | 1 |
| 1,3-Dichlorobenzene | ND | 1.0 | 0.78 | ug/L | | | 12/07/19 18:32 | 1 |
| 1,4-Dichlorobenzene | ND | 1.0 | 0.84 | ug/L | | | 12/07/19 18:32 | 1 |
| 2-Butanone (MEK) | ND | 10 | 1.3 | ug/L | | | 12/07/19 18:32 | 1 |
| 2-Hexanone | ND | 5.0 | 1.2 | ug/L | | | 12/07/19 18:32 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | 2.1 | ug/L | | | 12/07/19 18:32 | 1 |
| Acetone | ND | 10 | 3.0 | ug/L | | | 12/07/19 18:32 | 1 |
| Benzene | 1.2 | 1.0 | 0.41 | ug/L | | | 12/07/19 18:32 | 1 |
| Bromodichloromethane | ND | 1.0 | 0.39 | ug/L | | | 12/07/19 18:32 | 1 |
| Bromoform | ND | 1.0 | 0.26 | ug/L | | | 12/07/19 18:32 | 1 |
| Bromomethane | ND | 1.0 | 0.69 | ug/L | | | 12/07/19 18:32 | 1 |
| Carbon disulfide | ND | 1.0 | 0.19 | ug/L | | | 12/07/19 18:32 | 1 |
| Carbon tetrachloride | ND | 1.0 | 0.27 | ug/L | | | 12/07/19 18:32 | 1 |
| Chlorobenzene | ND | 1.0 | 0.75 | ug/L | | | 12/07/19 18:32 | 1 |
| Dibromochloromethane | ND | 1.0 | 0.32 | ug/L | | | 12/07/19 18:32 | 1 |
| Chloroethane | ND | 1.0 | 0.32 | ug/L | | | 12/07/19 18:32 | 1 |
| Chloroform | ND | 1.0 | 0.34 | ug/L | | | 12/07/19 18:32 | 1 |
| Chloromethane | ND | 1.0 | 0.35 | ug/L | | | 12/07/19 18:32 | 1 |
| cis-1,2-Dichloroethene | 21 | 1.0 | 0.81 | ug/L | | | 12/07/19 18:32 | 1 |
| cis-1,3-Dichloropropene | ND | 1.0 | 0.36 | ug/L | | | 12/07/19 18:32 | 1 |
| Cyclohexane | 3.4 | 1.0 | 0.18 | ug/L | | | 12/07/19 18:32 | 1 |
| Dichlorodifluoromethane | ND | 1.0 | 0.68 | ug/L | | | 12/07/19 18:32 | 1 |
| Ethylbenzene | ND | 1.0 | 0.74 | ug/L | | | 12/07/19 18:32 | 1 |
| 1,2-Dibromoethane | ND | 1.0 | 0.73 | ug/L | | | 12/07/19 18:32 | 1 |
| Isopropylbenzene | ND | 1.0 | 0.79 | ug/L | | | 12/07/19 18:32 | 1 |
| Methyl acetate | ND | 2.5 | 1.3 | ug/L | | | 12/07/19 18:32 | 1 |
| Methyl tert-butyl ether | ND | 1.0 | 0.16 | ug/L | | | 12/07/19 18:32 | 1 |
| Methylcyclohexane | 0.99 J | 1.0 | 0.16 | ug/L | | | 12/07/19 18:32 | 1 |
| Methylene Chloride | ND | 1.0 | 0.44 | ug/L | | | 12/07/19 18:32 | 1 |

Job ID: 480-163694-1

Matrix: Water

Matrix: Water

Lab Sample ID: 480-163694-6

Lab Sample ID: 480-163694-7

RL

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

2.0

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

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

Result Qualifier

ND

ND

ND

ND

ND

ND

ND

37

ND

Client Sample ID: MW-02R Date Collected: 12/05/19 13:40 Date Received: 12/05/19 16:45

Analyte

Styrene

Toluene

Tetrachloroethene

Trichloroethene

Vinyl chloride

Xylenes, Total

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

Trichlorofluoromethane

| Lab Sample ID: 480-163694-7 |
|-----------------------------|
| Matrix: Water |

D

Prepared

MDL Unit

0.73 ug/L

0.36 ug/L

0.51 ug/L

0.90 ug/L

0.37 ug/L

0.46 ug/L

0.88 ug/L

0.90 ug/L

0.66 ug/L

Dil Fac

Job ID: 480-163694-1

Analyzed

12/07/19 18:32

12/07/19 18:32

12/07/19 18:32

12/07/19 18:32

12/07/19 18:32

12/07/19 18:32

12/07/19 18:32

12/07/19 18:32

12/07/19 18:32

Matrix: Water

Lab Sample ID: 480-163694-8

| Surrogate | %Recovery | Qualifier Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|------------------|----------|----------------|---------|
| Toluene-d8 (Surr) | 99 | 80 - 120 | | 12/07/19 18:32 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | 77 - 120 | | 12/07/19 18:32 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | 73 - 120 | | 12/07/19 18:32 | 1 |
| Dibromofluoromethane (Surr) | 99 | 75 - 123 | | 12/07/19 18:32 | 1 |

Client Sample ID: EX-MW-11R Date Collected: 12/05/19 14:20 Date Received: 12/05/19 16:45

| Analyte | Result Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | 20 | 16 | ug/L | | | 12/07/19 18:56 | 20 |
| 1,1,2,2-Tetrachloroethane | ND | 20 | 4.2 | ug/L | | | 12/07/19 18:56 | 20 |
| 1,1,2-Trichloroethane | ND | 20 | 4.6 | ug/L | | | 12/07/19 18:56 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 20 | 6.2 | ug/L | | | 12/07/19 18:56 | 20 |
| 1,1-Dichloroethane | ND | 20 | 7.6 | ug/L | | | 12/07/19 18:56 | 20 |
| 1,1-Dichloroethene | ND | 20 | 5.8 | ug/L | | | 12/07/19 18:56 | 20 |
| 1,2,4-Trichlorobenzene | ND | 20 | 8.2 | ug/L | | | 12/07/19 18:56 | 20 |
| 1,2-Dibromo-3-Chloropropane | ND | 20 | 7.8 | ug/L | | | 12/07/19 18:56 | 20 |
| 1,2-Dichlorobenzene | ND | 20 | 16 | ug/L | | | 12/07/19 18:56 | 20 |
| 1,2-Dichloroethane | ND | 20 | 4.2 | ug/L | | | 12/07/19 18:56 | 20 |
| 1,2-Dichloropropane | ND | 20 | 14 | ug/L | | | 12/07/19 18:56 | 20 |
| 1,3-Dichlorobenzene | ND | 20 | 16 | ug/L | | | 12/07/19 18:56 | 20 |
| 1,4-Dichlorobenzene | ND | 20 | 17 | ug/L | | | 12/07/19 18:56 | 20 |
| 2-Butanone (MEK) | ND | 200 | 26 | ug/L | | | 12/07/19 18:56 | 20 |
| 2-Hexanone | ND | 100 | 25 | ug/L | | | 12/07/19 18:56 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | 100 | 42 | ug/L | | | 12/07/19 18:56 | 20 |
| Acetone | ND | 200 | 60 | ug/L | | | 12/07/19 18:56 | 20 |
| Benzene | ND | 20 | 8.2 | ug/L | | | 12/07/19 18:56 | 20 |
| Bromodichloromethane | ND | 20 | 7.8 | ug/L | | | 12/07/19 18:56 | 20 |
| Bromoform | ND | 20 | 5.2 | ug/L | | | 12/07/19 18:56 | 20 |
| Bromomethane | ND | 20 | 14 | ug/L | | | 12/07/19 18:56 | 20 |
| Carbon disulfide | ND | 20 | 3.8 | ug/L | | | 12/07/19 18:56 | 20 |
| Carbon tetrachloride | ND | 20 | 5.4 | ug/L | | | 12/07/19 18:56 | 20 |
| Chlorobenzene | ND | 20 | 15 | ug/L | | | 12/07/19 18:56 | 20 |
| Dibromochloromethane | ND | 20 | 6.4 | ug/L | | | 12/07/19 18:56 | 20 |
| Chloroethane | ND | 20 | | ug/L | | | 12/07/19 18:56 | 20 |
| Chloroform | ND | 20 | | ug/L | | | 12/07/19 18:56 | 20 |
| Chloromethane | ND | 20 | | ug/L | | | 12/07/19 18:56 | 20 |

RL

MDL Unit

D

Prepared

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

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

Result Qualifier

Client Sample ID: EX-MW-11R Date Collected: 12/05/19 14:20 Date Received: 12/05/19 16:45

Analyte

Lab Sample ID: 480-163694-8

Analyzed

Matrix: Water

| Surrogate | %Recoverv Qualifier | Limits | | | Prepared Analyzed | Dil Fac |
|---------------------------|---------------------|--------|-----|------|-------------------|---------|
| Xylenes, Total | ND | 40 | 13 | ug/L | 12/07/19 18: | 56 20 |
| Vinyl chloride | 330 | 20 | | ug/L | 12/07/19 18: | |
| Trichlorofluoromethane | ND | 20 | 18 | ug/L | 12/07/19 18: | 56 20 |
| Trichloroethene | ND | 20 | 9.2 | ug/L | 12/07/19 18: | 56 20 |
| trans-1,3-Dichloropropene | ND | 20 | 7.4 | ug/L | 12/07/19 18: | 56 20 |
| trans-1,2-Dichloroethene | ND | 20 | 18 | ug/L | 12/07/19 18: | 56 20 |
| Toluene | ND | 20 | 10 | ug/L | 12/07/19 18: | 56 20 |
| Tetrachloroethene | ND | 20 | 7.2 | ug/L | 12/07/19 18: | 56 20 |
| Styrene | ND | 20 | 15 | ug/L | 12/07/19 18: | 56 20 |
| Methylene Chloride | ND | 20 | 8.8 | ug/L | 12/07/19 18: | 56 20 |
| Methylcyclohexane | 11 J | 20 | 3.2 | ug/L | 12/07/19 18: | 56 20 |
| Methyl tert-butyl ether | ND | 20 | 3.2 | ug/L | 12/07/19 18: | 56 20 |
| Methyl acetate | ND | 50 | | ug/L | 12/07/19 18: | 56 20 |
| Isopropylbenzene | ND | 20 | | ug/L | 12/07/19 18: | 56 20 |
| 1,2-Dibromoethane | ND | 20 | | ug/L | 12/07/19 18: | 56 20 |
| Ethylbenzene | ND | 20 | 15 | ug/L | 12/07/19 18: | 56 20 |
| Dichlorodifluoromethane | ND | 20 | | ug/L | 12/07/19 18: | 56 20 |
| Cyclohexane | 22 | 20 | 3.6 | ug/L | 12/07/19 18: | 56 20 |
| cis-1,3-Dichloropropene | ND | 20 | | ug/L | 12/07/19 18: | 56 20 |
| cis-1,2-Dichloroethene | 950 | 20 | 16 | ug/L | 12/07/19 18: | 56 20 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 100 | | 80 - 120 | | 12/07/19 18:56 | 20 |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 77 - 120 | | 12/07/19 18:56 | 20 |
| 4-Bromofluorobenzene (Surr) | 100 | | 73 - 120 | | 12/07/19 18:56 | 20 |
| Dibromofluoromethane (Surr) | 102 | | 75 - 123 | | 12/07/19 18:56 | 20 |

Client Sample ID: AL-2 Date Collected: 12/05/19 15:10 Date Received: 12/05/19 16:45

Lab Sample ID: 480-163694-9

Matrix: Water

| Method: 8260C - Volatile Organ Analyte | Result Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | 1.0 | 0.82 | ug/L | | | 12/07/19 19:20 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.21 | ug/L | | | 12/07/19 19:20 | 1 |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/L | | | 12/07/19 19:20 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | 0.31 | ug/L | | | 12/07/19 19:20 | 1 |
| 1,1-Dichloroethane | ND | 1.0 | 0.38 | ug/L | | | 12/07/19 19:20 | 1 |
| 1,1-Dichloroethene | ND | 1.0 | 0.29 | ug/L | | | 12/07/19 19:20 | 1 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.41 | ug/L | | | 12/07/19 19:20 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | 1.0 | 0.39 | ug/L | | | 12/07/19 19:20 | 1 |
| 1,2-Dichlorobenzene | ND | 1.0 | 0.79 | ug/L | | | 12/07/19 19:20 | 1 |
| 1,2-Dichloroethane | ND | 1.0 | 0.21 | ug/L | | | 12/07/19 19:20 | 1 |
| 1,2-Dichloropropane | ND | 1.0 | 0.72 | ug/L | | | 12/07/19 19:20 | 1 |
| 1,3-Dichlorobenzene | ND | 1.0 | 0.78 | ug/L | | | 12/07/19 19:20 | 1 |
| 1,4-Dichlorobenzene | ND | 1.0 | 0.84 | ug/L | | | 12/07/19 19:20 | 1 |
| 2-Butanone (MEK) | ND | 10 | 1.3 | ug/L | | | 12/07/19 19:20 | 1 |
| 2-Hexanone | ND | 5.0 | 1.2 | ug/L | | | 12/07/19 19:20 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | 2.1 | ug/L | | | 12/07/19 19:20 | 1 |
| Acetone | ND | 10 | 3.0 | ug/L | | | 12/07/19 19:20 | 1 |

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

Job ID: 480-163694-1

Matrix: Water

Lab Sample ID: 480-163694-9

5 6

Client Sample ID: AL-2 Date Collected: 12/05/19 15:10 Date Received: 12/05/19 16:45

| Method: 8260C - Volatile O Analyte | | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Benzene | 11 | | 1.0 | 0.41 | ug/L | | | 12/07/19 19:20 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 12/07/19 19:20 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 12/07/19 19:20 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 12/07/19 19:20 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 12/07/19 19:20 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 12/07/19 19:20 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 12/07/19 19:20 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 12/07/19 19:20 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 12/07/19 19:20 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 12/07/19 19:20 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 12/07/19 19:20 | 1 |
| cis-1,2-Dichloroethene | 14 | | 1.0 | 0.81 | ug/L | | | 12/07/19 19:20 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 12/07/19 19:20 | 1 |
| Cyclohexane | 1.8 | | 1.0 | 0.18 | ug/L | | | 12/07/19 19:20 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 12/07/19 19:20 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 12/07/19 19:20 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 12/07/19 19:20 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 12/07/19 19:20 | 1 |
| Methyl acetate | ND | | 2.5 | 1.3 | ug/L | | | 12/07/19 19:20 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 12/07/19 19:20 | 1 |
| Methylcyclohexane | 0.25 | J | 1.0 | 0.16 | ug/L | | | 12/07/19 19:20 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 12/07/19 19:20 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 12/07/19 19:20 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 12/07/19 19:20 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 12/07/19 19:20 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 12/07/19 19:20 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 12/07/19 19:20 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 12/07/19 19:20 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 12/07/19 19:20 | 1 |
| Vinyl chloride | 4.6 | | 1.0 | 0.90 | ug/L | | | 12/07/19 19:20 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 12/07/19 19:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 101 | | 80 - 120 | | | - | | 12/07/19 19:20 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 77 - 120 | | | | | 12/07/19 19:20 | 1 |
| 4-Bromofluorobenzene (Surr) | 101 | | 73 - 120 | | | | | 12/07/19 19:20 | 1 |

Client Sample ID: AL-1 Date Collected: 12/05/19 15:45

Dibromofluoromethane (Surr)

Date Received: 12/05/19 16:45

| Method: 8260C - Volatile Orga | ethod: 8260C - Volatile Organic Compounds by GC/MS | | | | | | | |
|---------------------------------------|--|-----|------|------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1,1-Trichloroethane | <u></u> | 4.0 | 3.3 | ug/L | | | 12/09/19 12:21 | 4 |
| 1,1,2,2-Tetrachloroethane | ND | 4.0 | 0.84 | ug/L | | | 12/09/19 12:21 | 4 |
| 1,1,2-Trichloroethane | ND | 4.0 | 0.92 | ug/L | | | 12/09/19 12:21 | 4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 4.0 | 1.2 | ug/L | | | 12/09/19 12:21 | 4 |
| 1,1-Dichloroethane | ND | 4.0 | 1.5 | ug/L | | | 12/09/19 12:21 | 4 |
| 1,1-Dichloroethene | ND | 4.0 | 1.2 | ug/L | | | 12/09/19 12:21 | 4 |

75 - 123

99

Eurofins TestAmerica, Buffalo

12/07/19 19:20

Lab Sample ID: 480-163694-10

1

Matrix: Water

RL

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

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

Result Qualifier

Client Sample ID: AL-1 Date Collected: 12/05/19 15:45 Date Received: 12/05/19 16:45

Analyte

6

Lab Sample ID: 480-163694-10

MDL Unit

D

Prepared

| 1,2,4-Trichlorobenzene | ND | | 4.0 | 1.6 | ug/L | | 12/09/19 12:21 | 4 |
|------------------------------|-----------|-----------|----------|------|------|----------|----------------|---------|
| 1,2-Dibromo-3-Chloropropane | ND | | 4.0 | | ug/L | | 12/09/19 12:21 | 4 |
| 1.2-Dichlorobenzene | ND | | 4.0 | | ug/L | | 12/09/19 12:21 | 4 |
| 1,2-Dichloroethane | ND | | 4.0 | 0.84 | - | | 12/09/19 12:21 | 4 |
| 1,2-Dichloropropane | ND | | 4.0 | | ug/L | | 12/09/19 12:21 | 4 |
| 1,3-Dichlorobenzene | ND | | 4.0 | | ug/L | | 12/09/19 12:21 | 4 |
| 1,4-Dichlorobenzene | ND | | 4.0 | | ug/L | | 12/09/19 12:21 | 4 |
| 2-Butanone (MEK) | ND | * | 40 | | ug/L | | 12/09/19 12:21 | 4 |
| 2-Hexanone | ND | | 20 | | ug/L | | 12/09/19 12:21 | 4 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 20 | | ug/L | | 12/09/19 12:21 | 4 |
| Acetone | ND | | 40 | | ug/L | | 12/09/19 12:21 | 4 |
| Benzene | 33 | | 4.0 | | ug/L | | 12/09/19 12:21 | 4 |
| Bromodichloromethane | ND | | 4.0 | | ug/L | | 12/09/19 12:21 | 4 |
| Bromoform | ND | | 4.0 | | ug/L | | 12/09/19 12:21 | 4 |
| Bromomethane | ND | | 4.0 | | ug/L | | 12/09/19 12:21 | 4 |
| Carbon disulfide | ND | | 4.0 | 0.76 | - | | 12/09/19 12:21 | 4 |
| Carbon tetrachloride | ND | | 4.0 | | ug/L | | 12/09/19 12:21 | 4 |
| Chlorobenzene | ND | | 4.0 | 3.0 | ug/L | | 12/09/19 12:21 | 4 |
| Dibromochloromethane | ND | | 4.0 | | ug/L | | 12/09/19 12:21 | 4 |
| Chloroethane | ND | | 4.0 | | ug/L | | 12/09/19 12:21 | 4 |
| Chloroform | ND | | 4.0 | 1.4 | ug/L | | 12/09/19 12:21 | 4 |
| Chloromethane | ND | | 4.0 | 1.4 | ug/L | | 12/09/19 12:21 | 4 |
| cis-1,2-Dichloroethene | 180 | | 4.0 | 3.2 | ug/L | | 12/09/19 12:21 | 4 |
| cis-1,3-Dichloropropene | ND | | 4.0 | 1.4 | ug/L | | 12/09/19 12:21 | 4 |
| Cyclohexane | 37 | | 4.0 | 0.72 | ug/L | | 12/09/19 12:21 | 4 |
| Dichlorodifluoromethane | ND | | 4.0 | 2.7 | ug/L | | 12/09/19 12:21 | 4 |
| Ethylbenzene | ND | | 4.0 | 3.0 | ug/L | | 12/09/19 12:21 | 4 |
| 1,2-Dibromoethane | ND | | 4.0 | 2.9 | ug/L | | 12/09/19 12:21 | 4 |
| lsopropylbenzene | ND | | 4.0 | 3.2 | ug/L | | 12/09/19 12:21 | 4 |
| Methyl acetate | ND | | 10 | 5.2 | ug/L | | 12/09/19 12:21 | 4 |
| Methyl tert-butyl ether | ND | | 4.0 | 0.64 | ug/L | | 12/09/19 12:21 | 4 |
| Methylcyclohexane | 24 | | 4.0 | 0.64 | ug/L | | 12/09/19 12:21 | 4 |
| Methylene Chloride | ND | | 4.0 | 1.8 | ug/L | | 12/09/19 12:21 | 4 |
| Styrene | ND | | 4.0 | 2.9 | ug/L | | 12/09/19 12:21 | 4 |
| Tetrachloroethene | ND | | 4.0 | 1.4 | ug/L | | 12/09/19 12:21 | 4 |
| Toluene | 4.9 | | 4.0 | | ug/L | | 12/09/19 12:21 | 4 |
| trans-1,2-Dichloroethene | ND | | 4.0 | 3.6 | ug/L | | 12/09/19 12:21 | 4 |
| trans-1,3-Dichloropropene | ND | | 4.0 | 1.5 | ug/L | | 12/09/19 12:21 | 4 |
| Trichloroethene | ND | | 4.0 | | ug/L | | 12/09/19 12:21 | 4 |
| Trichlorofluoromethane | ND | | 4.0 | 3.5 | ug/L | | 12/09/19 12:21 | 4 |
| Vinyl chloride | 160 | | 4.0 | | ug/L | | 12/09/19 12:21 | 4 |
| Xylenes, Total | 4.2 | J | 8.0 | 2.6 | ug/L | | 12/09/19 12:21 | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 102 | | 80 - 120 | | | | 12/09/19 12:21 | 4 |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 77 - 120 | | | | 12/09/19 12:21 | 4 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | | | 12/09/19 12:21 | 4 |
| Dibromofluoromethane (Surr) | 97 | | 75 - 123 | | | | 12/09/19 12:21 | 4 |

Matrix: Water

Dil Fac

Job ID: 480-163694-1

Analyzed

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-7 Date Collected: 12/05/19 16:30 Date Received: 12/05/19 16:45

| .loh | ١D· | 480-163694-1 |
|------|-----|--------------|
| 000 | ю. | 400-103034-1 |

Lab Sample ID: 480-163694-11

Matrix: Water

5

| Analyte | Result Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------------|-----|------|--------------|---|----------|----------------|-----------------|
| 1,1,1-Trichloroethane | ND | 1.0 | 0.82 | ug/L | | | 12/07/19 20:09 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.21 | ug/L | | | 12/07/19 20:09 | 1 |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/L | | | 12/07/19 20:09 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | 0.31 | ug/L | | | 12/07/19 20:09 | 1 |
| 1,1-Dichloroethane | ND | 1.0 | 0.38 | - | | | 12/07/19 20:09 | 1 |
| 1,1-Dichloroethene | ND | 1.0 | 0.29 | - | | | 12/07/19 20:09 | 1 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.41 | | | | 12/07/19 20:09 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | 1.0 | 0.39 | ug/L | | | 12/07/19 20:09 | 1 |
| 1,2-Dichlorobenzene | ND | 1.0 | 0.79 | ug/L | | | 12/07/19 20:09 | 1 |
| ,2-Dichloroethane | ND | 1.0 | 0.21 | • | | | 12/07/19 20:09 | |
| I,2-Dichloropropane | ND | 1.0 | 0.72 | - | | | 12/07/19 20:09 | 1 |
| ,3-Dichlorobenzene | ND | 1.0 | 0.78 | • | | | 12/07/19 20:09 | 1 |
| I,4-Dichlorobenzene | ND | 1.0 | 0.84 | - | | | 12/07/19 20:09 | |
| 2-Butanone (MEK) | ND | 1.0 | | ug/L | | | 12/07/19 20:09 | 1 |
| 2-Hexanone | ND | 5.0 | | ug/L | | | 12/07/19 20:09 | 1 |
| -Methyl-2-pentanone (MIBK) | ND | 5.0 | | ug/L | | | 12/07/19 20:09 | · · · · · . |
| Acetone | ND | 10 | | ug/L ug/L | | | 12/07/19 20:09 | |
| Benzene | ND | 1.0 | 0.41 | - | | | 12/07/19 20:09 | |
| | | | | | | | | |
| Bromodichloromethane | ND | 1.0 | 0.39 | - | | | 12/07/19 20:09 | |
| Bromoform | ND | 1.0 | 0.26 | - | | | 12/07/19 20:09 | |
| romomethane | ND | 1.0 | 0.69 | • | | | 12/07/19 20:09 | |
| Carbon disulfide | ND | 1.0 | 0.19 | - | | | 12/07/19 20:09 | |
| Carbon tetrachloride | ND | 1.0 | 0.27 | - | | | 12/07/19 20:09 | |
| Chlorobenzene | ND | 1.0 | 0.75 | - | | | 12/07/19 20:09 | |
| Dibromochloromethane | ND | 1.0 | 0.32 | - | | | 12/07/19 20:09 | |
| Chloroethane | ND | 1.0 | 0.32 | - | | | 12/07/19 20:09 | |
| Chloroform | ND | 1.0 | 0.34 | - | | | 12/07/19 20:09 | |
| Chloromethane | ND | 1.0 | 0.35 | - | | | 12/07/19 20:09 | |
| sis-1,2-Dichloroethene | 2.0 | 1.0 | 0.81 | - | | | 12/07/19 20:09 | |
| is-1,3-Dichloropropene | ND | 1.0 | 0.36 | - | | | 12/07/19 20:09 | |
| Cyclohexane | 1.0 | 1.0 | 0.18 | - | | | 12/07/19 20:09 | |
| Dichlorodifluoromethane | ND | 1.0 | 0.68 | ug/L | | | 12/07/19 20:09 | |
| thylbenzene | ND | 1.0 | 0.74 | ug/L | | | 12/07/19 20:09 | |
| ,2-Dibromoethane | ND | 1.0 | 0.73 | ug/L | | | 12/07/19 20:09 | |
| sopropylbenzene | ND | 1.0 | 0.79 | ug/L | | | 12/07/19 20:09 | |
| /lethyl acetate | ND | 2.5 | 1.3 | ug/L | | | 12/07/19 20:09 | |
| lethyl tert-butyl ether | ND | 1.0 | 0.16 | ug/L | | | 12/07/19 20:09 | |
| lethylcyclohexane | 0.33 J | 1.0 | 0.16 | ug/L | | | 12/07/19 20:09 | |
| 1ethylene Chloride | ND | 1.0 | 0.44 | ug/L | | | 12/07/19 20:09 | |
| tyrene | ND | 1.0 | 0.73 | ug/L | | | 12/07/19 20:09 | |
| etrachloroethene | ND | 1.0 | 0.36 | ug/L | | | 12/07/19 20:09 | |
| oluene | ND | 1.0 | 0.51 | - | | | 12/07/19 20:09 | |
| rans-1,2-Dichloroethene | ND | 1.0 | 0.90 | - | | | 12/07/19 20:09 | |
| rans-1,3-Dichloropropene | ND | 1.0 | 0.37 | - | | | 12/07/19 20:09 | |
| Trichloroethene | ND | 1.0 | 0.46 | - | | | 12/07/19 20:09 | |
| richlorofluoromethane | ND | 1.0 | 0.88 | | | | 12/07/19 20:09 | · · · · · · · . |
| /inyl chloride | 1.4 | 1.0 | 0.90 | - | | | 12/07/19 20:09 | |
| Kylenes, Total | ND | 2.0 | | ug/L | | | 12/07/19 20:09 | |

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-7 Date Collected: 12/05/19 16:30 Date Received: 12/05/19 16:45

| Surrogate | %Recovery Qualifier | Limits | Prepared Anal | lyzed Dil Fac | |
|------------------------------|---------------------|----------|---------------|---------------|--|
| Toluene-d8 (Surr) | 99 | 80 - 120 | 12/07/1 | 9 20:09 1 | |
| 1,2-Dichloroethane-d4 (Surr) | 102 | 77 - 120 | 12/07/1 | 9 20:09 1 | |
| 4-Bromofluorobenzene (Surr) | 96 | 73 - 120 | 12/07/1 | 9 20:09 1 | |
| Dibromofluoromethane (Surr) | 101 | 75 - 123 | 12/07/1 | 19 20:09 1 | |

Client Sample ID: TRIP BLANK Date Collected: 12/05/19 00:00 Date Received: 12/05/19 16:45

| Method: 8260C - Volatile Organ Analyte | Result Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | 1.0 | 0.82 | ug/L | | | 12/07/19 20:33 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.21 | ug/L | | | 12/07/19 20:33 | 1 |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/L | | | 12/07/19 20:33 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | 0.31 | ug/L | | | 12/07/19 20:33 | 1 |
| 1,1-Dichloroethane | ND | 1.0 | 0.38 | ug/L | | | 12/07/19 20:33 | 1 |
| 1,1-Dichloroethene | ND | 1.0 | 0.29 | ug/L | | | 12/07/19 20:33 | 1 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.41 | ug/L | | | 12/07/19 20:33 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | 1.0 | 0.39 | ug/L | | | 12/07/19 20:33 | 1 |
| 1,2-Dichlorobenzene | ND | 1.0 | 0.79 | ug/L | | | 12/07/19 20:33 | 1 |
| 1,2-Dichloroethane | ND | 1.0 | 0.21 | ug/L | | | 12/07/19 20:33 | 1 |
| 1,2-Dichloropropane | ND | 1.0 | 0.72 | ug/L | | | 12/07/19 20:33 | 1 |
| 1,3-Dichlorobenzene | ND | 1.0 | 0.78 | ug/L | | | 12/07/19 20:33 | 1 |
| 1,4-Dichlorobenzene | ND | 1.0 | 0.84 | ug/L | | | 12/07/19 20:33 | 1 |
| 2-Butanone (MEK) | ND | 10 | 1.3 | ug/L | | | 12/07/19 20:33 | 1 |
| 2-Hexanone | ND | 5.0 | 1.2 | ug/L | | | 12/07/19 20:33 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | 2.1 | ug/L | | | 12/07/19 20:33 | 1 |
| Acetone | ND | 10 | 3.0 | ug/L | | | 12/07/19 20:33 | 1 |
| Benzene | ND | 1.0 | 0.41 | ug/L | | | 12/07/19 20:33 | 1 |
| Bromodichloromethane | ND | 1.0 | 0.39 | ug/L | | | 12/07/19 20:33 | 1 |
| Bromoform | ND | 1.0 | 0.26 | ug/L | | | 12/07/19 20:33 | 1 |
| Bromomethane | ND | 1.0 | 0.69 | ug/L | | | 12/07/19 20:33 | 1 |
| Carbon disulfide | ND | 1.0 | 0.19 | ug/L | | | 12/07/19 20:33 | 1 |
| Carbon tetrachloride | ND | 1.0 | 0.27 | ug/L | | | 12/07/19 20:33 | 1 |
| Chlorobenzene | ND | 1.0 | 0.75 | ug/L | | | 12/07/19 20:33 | 1 |
| Dibromochloromethane | ND | 1.0 | 0.32 | ug/L | | | 12/07/19 20:33 | 1 |
| Chloroethane | ND | 1.0 | 0.32 | ug/L | | | 12/07/19 20:33 | 1 |
| Chloroform | ND | 1.0 | 0.34 | ug/L | | | 12/07/19 20:33 | 1 |
| Chloromethane | ND | 1.0 | 0.35 | ug/L | | | 12/07/19 20:33 | 1 |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.81 | ug/L | | | 12/07/19 20:33 | 1 |
| cis-1,3-Dichloropropene | ND | 1.0 | 0.36 | ug/L | | | 12/07/19 20:33 | 1 |
| Cyclohexane | ND | 1.0 | 0.18 | ug/L | | | 12/07/19 20:33 | 1 |
| Dichlorodifluoromethane | ND | 1.0 | 0.68 | ug/L | | | 12/07/19 20:33 | 1 |
| Ethylbenzene | ND | 1.0 | 0.74 | ug/L | | | 12/07/19 20:33 | 1 |
| 1,2-Dibromoethane | ND | 1.0 | 0.73 | ug/L | | | 12/07/19 20:33 | 1 |
| Isopropylbenzene | ND | 1.0 | 0.79 | ug/L | | | 12/07/19 20:33 | 1 |
| Methyl acetate | ND | 2.5 | 1.3 | ug/L | | | 12/07/19 20:33 | 1 |
| Methyl tert-butyl ether | ND | 1.0 | 0.16 | ug/L | | | 12/07/19 20:33 | 1 |
| Methylcyclohexane | ND | 1.0 | 0.16 | ug/L | | | 12/07/19 20:33 | 1 |
| Methylene Chloride | ND | 1.0 | 0.44 | ug/L | | | 12/07/19 20:33 | 1 |

Eurofins TestAmerica, Buffalo

Matrix: Water

Matrix: Water

Lab Sample ID: 480-163694-11

Lab Sample ID: 480-163694-12

RL

1.0

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

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

Result Qualifier

ND

Client Sample ID: TRIP BLANK Date Collected: 12/05/19 00:00 Date Received: 12/05/19 16:45

Analyte

Styrene

Job ID: 480-163694-1

Lab Sample ID: 480-163694-12 Matrix: Water

Analyzed

12/07/19 20:33

Dil Fac

1

Tetrachloroethene ND 1.0 0.36 ug/L 12/07/19 20:33 1 Toluene ND 0.51 ug/L 1.0 12/07/19 20:33 1 trans-1,2-Dichloroethene ND 1.0 0.90 ug/L 12/07/19 20:33 1 trans-1,3-Dichloropropene ND 0.37 ug/L 12/07/19 20:33 1.0 1 Trichloroethene ND 0.46 ug/L 1.0 12/07/19 20:33 1 Trichlorofluoromethane ND 0.88 ug/L 1.0 12/07/19 20:33 1 Vinyl chloride ND 1.0 0.90 ug/L 12/07/19 20:33 1 ND Xylenes, Total 2.0 0.66 ug/L 12/07/19 20:33 1 Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac Toluene-d8 (Surr) 12/07/19 20:33 99 80 - 120 1 1,2-Dichloroethane-d4 (Surr) 97 77 - 120 12/07/19 20:33 1 4-Bromofluorobenzene (Surr) 97 73 - 120 12/07/19 20:33 1 Dibromofluoromethane (Surr) 99 75 - 123 12/07/19 20:33 1

MDL Unit

0.73 ug/L

D

Prepared

Surrogate Summary

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

| | | | Pe | ercent Surro | ogate Recovery (Ac | ceptance Limits) |
|--------------------|------------------------|----------|----------|--------------|--------------------|------------------|
| | | TOL | DCA | BFB | DBFM | |
| Lab Sample ID | Client Sample ID | (80-120) | (77-120) | (73-120) | (75-123) | |
| 480-163694-1 | MW-12 | 99 | 100 | 99 | 99 | |
| 480-163694-2 | MW-09R | 102 | 96 | 98 | 98 | |
| 480-163694-3 | FIELD DUPLICATE | 98 | 96 | 95 | 97 | |
| 480-163694-4 | MW-07R | 99 | 100 | 95 | 99 | |
| 480-163694-5 | MW-04 | 99 | 101 | 99 | 104 | |
| 480-163694-6 | EX-MW12 | 98 | 98 | 96 | 98 | |
| 480-163694-7 | MW-02R | 99 | 100 | 98 | 99 | |
| 480-163694-8 | EX-MW-11R | 100 | 98 | 100 | 102 | |
| 480-163694-9 | AL-2 | 101 | 99 | 101 | 99 | |
| 480-163694-10 | AL-1 | 102 | 99 | 96 | 97 | |
| 480-163694-11 | AL-7 | 99 | 102 | 96 | 101 | |
| 480-163694-12 | TRIP BLANK | 99 | 97 | 97 | 99 | |
| LCS 480-508640/5 | Lab Control Sample | 102 | 101 | 95 | 103 | |
| LCS 480-508737/5 | Lab Control Sample | 97 | 98 | 96 | 97 | |
| LCSD 480-508737/28 | Lab Control Sample Dup | 100 | 97 | 98 | 98 | |
| MB 480-508640/7 | Method Blank | 100 | 100 | 97 | 100 | |
| MB 480-508737/7 | Method Blank | 100 | 98 | 98 | 99 | |
| Surrogate Legend | | | | | | |

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

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

Job ID: 480-163694-1

7 8 9 10

| 13 | | |
|----|--|---|
| 13 | | |
| 13 | | |
| | | 3 |
| | | |
| | | |
| | | |

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

Lab Sample ID: MB 480-508640/7 Matrix: Water Analysis Batch: 508640

| Analysis Datch. 300040 | MB | MB | | | | | | | |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | | D | Prepared | Analyzed | Dil Fac |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 12/07/19 13:10 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 12/07/19 13:10 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 12/07/19 13:10 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 12/07/19 13:10 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 12/07/19 13:10 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 12/07/19 13:10 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 12/07/19 13:10 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 12/07/19 13:10 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 12/07/19 13:10 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 12/07/19 13:10 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 12/07/19 13:10 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 12/07/19 13:10 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 12/07/19 13:10 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 12/07/19 13:10 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 12/07/19 13:10 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 12/07/19 13:10 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 12/07/19 13:10 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 12/07/19 13:10 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 12/07/19 13:10 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 12/07/19 13:10 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 12/07/19 13:10 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 12/07/19 13:10 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 12/07/19 13:10 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 12/07/19 13:10 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 12/07/19 13:10 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 12/07/19 13:10 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 12/07/19 13:10 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 12/07/19 13:10 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 12/07/19 13:10 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 12/07/19 13:10 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 12/07/19 13:10 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 12/07/19 13:10 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 12/07/19 13:10 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 12/07/19 13:10 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 12/07/19 13:10 | 1 |
| Methyl acetate | ND | | 2.5 | 1.3 | ug/L | | | 12/07/19 13:10 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 12/07/19 13:10 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 12/07/19 13:10 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | | | | 12/07/19 13:10 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 12/07/19 13:10 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | | | | 12/07/19 13:10 | 1 |
| Toluene | ND | | 1.0 | 0.51 | - | | | 12/07/19 13:10 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | | 12/07/19 13:10 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | | | | 12/07/19 13:10 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | - | | | 12/07/19 13:10 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | | | | 12/07/19 13:10 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | - | | | 12/07/19 13:10 | 1 |
| Xylenes, Total | ND | | 2.0 | | ug/L | | | 12/07/19 13:10 | 1 |

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

100

Lab Sample ID: MB 480-508640/7 Matrix: Water

Analysis Batch: 508640

| | MB MB | | | | |
|------------------------------|------------------|------------|----------|----------------|---------|
| Surrogate | %Recovery Qualif | ier Limits | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 100 | 80 - 120 | | 12/07/19 13:10 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | 77 - 120 | | 12/07/19 13:10 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | 73 - 120 | | 12/07/19 13:10 | 1 |

75 - 123

Lab Sample ID: LCS 480-508640/5 Matrix: Water

Analysis Batch: 508640

Dibromofluoromethane (Surr)

| Analyte Added Result Qualifier Unit D %Acc Limits 1,1,1-Trichioroethane 25.0 26.1 ugl, 104 73.126 1,1,2.7 trichioroethane 25.0 25.6 ugl, 102 76.120 1,1,2.Trichioroethane 25.0 22.0 ugl, 106 77.120 1,1.Dichioroethane 25.0 26.6 ugl, 106 77.120 1,2.Dichioroethane 25.0 26.9 ugl, 104 79.122 1,2.Dichioroethane 25.0 26.9 ugl, 104 79.122 1.2.Dichioroethane 25.0 26.9 ugl, 107 80.134 1.2.Dichioroethane 25.0 26.9 ugl, 107 76.120 1.2.Dichioroethane 25.0 26.1 ugl, 107 76.120 1.2.Dichioroethane 25.0 26.1 ugl, 108.124 120 1.2.Dichioroethane 25.0 26.1 ugl, 116 76.120 | Analysis Balch. 500040 | Spike | LCS | LCS | | | | %Rec. | |
|--|-------------------------------------|-------|------|-----|------|---|------|---------------------|--|
| 1,11-Trichloroethane 25.0 26.1 ugl 10.4 73.128 1,12.2.Trichloroethane 25.0 27.1 ugl 108 76.122 1,12.Trichloroethane 25.0 22.0 ugl 88 61.148 re 1.1.2.Trichloroethane 25.0 22.0 ugl 88 61.148 re 1.1.Dichloroethane 25.0 26.6 ugl 106 77.120 1.1.Dichloroethane 25.0 26.7 ugl 104 79.122 1.2.Dichloroethane 25.0 25.9 ugl 104 79.122 1.2.Dichloroethane 25.0 25.9 ugl 104 75.120 1.2.Dichloroethane 25.0 25.9 ugl 104 75.120 1.2.Dichloroethane 25.0 25.7 ugl 104 75.120 1.2.Dichloroethane 25.0 25.7 ugl 104 75.120 1.2.Dichloroethane 25.0 25.7 ugl 103 80.120 2.4-Baanone 125 143 ugl 111 85.127 | Analyte | | _ | | Unit | D | %Rec | | |
| 1.1.2-Trichloroethane 26.0 25.6 ng/L 102 76.122 1.1.2-Trichloro-1.2.2-Influoroethane 25.0 22.0 ug/L 88 61.148 ne 1.1.Dehtoroethane 25.0 26.6 ug/L 106 77.120 1.1.Dehtoroethene 25.0 25.9 ug/L 104 79.122 1.2.Dehtoroethene 25.0 26.9 ug/L 107 80.124 1.2.Dehtoroethene 25.0 26.9 ug/L 107 80.124 1.2.Dehtoroethane 25.0 25.9 ug/L 104 75.120 1.2.Dehtoroethene 25.0 25.7 ug/L 105 76.120 1.3.Dehtoroethene 25.0 25.7 ug/L 103 80.120 1.4.Dehtoroethene 25.0 25.7 ug/L 103 80.120 2.4.Butanone (MEK) 125 143 ug/L 113 56.134 2.4.Butanone (MEK) 125 148 ug/L 113 71.124 Benzene 25.0 26.1 ug/L 104 71.124 Boromotho | - | | | | | | | | |
| 1.1.2-Trichloro-1.2.2-trifluoroethan 25.0 22.0 ug/L 88 61 - 148 ne 1.1-Dichloroethane 25.0 26.6 ug/L 106 77 - 120 1.1-Dichloroethane 25.0 24.7 ug/L 99 66.127 1.2-Dichromo-3-Chloropropane 25.0 25.9 ug/L 104 79 - 122 1.2-Dichloroethane 25.0 26.8 ug/L 107 80.124 1.2-Dichloroethane 25.0 25.9 ug/L 107 80.124 1.2-Dichloroethane 25.0 25.7 ug/L 105 77.120 1.3-Dichlorobenzene 25.0 25.7 ug/L 105 80.120 2-Bitanone (MEK) 125 143 ug/L 114 57.140 2-Hexanone 125 144 ug/L 116 66.127 Actone 125 144 ug/L 116 80.120 2-Bitanone (MEK) 125 141 ug/L 111 56.142 2-Hexanone | 1,1,2,2-Tetrachloroethane | 25.0 | 27.1 | | ug/L | | 108 | 76 - 120 | |
| ne 1,1-Dichloroethane 25.0 24.7 ug/L 99 66.127 1,1-Dichloroethane 25.0 24.7 ug/L 104 79-122 1,2-Dichlorobenzene 25.0 25.9 ug/L 104 79-122 1,2-Dichlorobenzene 25.0 28.3 ug/L 113 56.134 1,2-Dichlorobenzene 25.0 25.9 ug/L 104 75.120 1,2-Dichlorobenzene 25.0 27.4 ug/L 105 77.120 1,4-Dichlorobenzene 25.0 25.7 ug/L 103 80.120 2-Butanone (MEK) 125 143 ug/L 114 57.140 2-Hexanone 125 144 ug/L 113 71.125 4-Methyl-2-pentanone (MIBK) 125 141 ug/L 113 71.124 Bromodichloromethane 25.0 27.5 ug/L 110 80.122 Bromodichloromethane 25.0 28.1 ug/L 101 80.122 Bromodichl | 1,1,2-Trichloroethane | 25.0 | 25.6 | | ug/L | | 102 | 76 - 122 | |
| ne number of the second s | 1,1,2-Trichloro-1,2,2-trifluoroetha | 25.0 | 22.0 | | ug/L | | 88 | 61 - 148 | |
| 1.1-Dichloroethene 25.0 24.7 ug/L 99 66.127 1.2.4-Trichlorobenzene 25.0 25.9 ug/L 113 55.134 1.2-Dichoro-S-Chloropopane 25.0 26.9 ug/L 107 80.124 1.2-Dichoro-S-Chloropopane 25.0 25.9 ug/L 107 80.124 1.2-Dichoroethane 25.0 25.7 ug/L 107 75.120 1.3-Dichorobenzene 25.0 25.7 ug/L 103 80.120 2-Butanone (MEK) 125 143 ug/L 119 65.127 2-Hexanone 125 144 ug/L 113 71.125 Acetone 125 144 ug/L 113 71.125 Acetone 25.0 27.5 ug/L 104 71.124 Bromodichloromethane 25.0 28.5 ug/L 110 80.122 Bromodichloromethane 25.0 28.5 ug/L 101 80.122 Bromodichloromethane 25.0 28.5 ug/L 103 80.122 Bromodichloromethane | | | | | - | | | | |
| 1.2.4-Trichlorobenzene 25.0 25.9 ug/L 104 79.122 1.2.Dichlorobenzene 25.0 26.3 ug/L 113 56.134 1.2.Dichlorobenzene 25.0 25.9 ug/L 107 80.124 1.2.Dichlorobenzene 25.0 25.9 ug/L 104 75.120 1.2.Dichlorobenzene 25.0 27.4 ug/L 105 77.120 1.4.Dichlorobenzene 25.0 26.1 ug/L 103 80.120 2.Butanone (MEK) 125 143 ug/L 114 57.140 2.Hexanone 125 143 ug/L 114 57.140 2.Hexanone 125 139 ug/L 114 56.142 Benzene 25.0 26.1 ug/L 104 61.132 Bromodichloromethane 25.0 25.5 ug/L 104 61.132 Bromodichloromethane 25.0 25.4 ug/L 102 59.134 Carbon tetrachloride 25.0 25.4 ug/L 103 75.125 Chlorobenzene 25.0 | 1,1-Dichloroethane | | 26.6 | | - | | | 77 - 120 | |
| 1.2-Dibromo-3-Chloropropane 25.0 28.3 ug/L 113 56.134 1.2-Dichloroberzene 25.0 26.9 ug/L 107 80.124 1.2-Dichloroberzene 25.0 25.9 ug/L 104 75.120 1.2-Dichloroberzene 25.0 25.7 ug/L 103 80.120 1.4-Dichloroberzene 25.0 25.7 ug/L 113 80.120 2-Butanone (MEK) 125 143 ug/L 113 80.120 2-Hexanone (MEK) 125 144 ug/L 113 71.125 2-Hexanone (MIBK) 125 141 ug/L 114 87.140 2-Hexanone (MIBK) 125 141 ug/L 113 71.125 Acetone 125 144 ug/L 104 87.142 Bromodichloromethane 25.0 27.5 ug/L 104 87.142 Bromodichloromethane 25.0 28.5 ug/L 104 87.142 Carbon disulfide 25.0 28.4 ug/L 107 72.134 Chlorobenzene | 1,1-Dichloroethene | 25.0 | 24.7 | | ug/L | | 99 | 66 - 127 | |
| 1.2-Dichlorobenzene 25.0 26.9 ug/L 107 80.124 1.2-Dichloroptropane 25.0 25.9 ug/L 110 75.120 1.2-Dichloroptropane 25.0 27.4 ug/L 110 76.120 1.3-Dichlorobenzene 25.0 26.1 ug/L 103 80.120 2-Butanone (MEK) 125 143 ug/L 114 57.7 2-Hexanone 125 144 ug/L 113 71.125 4-Methyl-2-pentanone (MIBK) 125 144 ug/L 113 71.125 Acetone 125 139 ug/L 114 66.127 4-Methyl-2-pentanone (MIBK) 125 141 ug/L 110 80.122 Bromodichloromethane 25.0 26.1 ug/L 104 71.124 Bromodichloromethane 25.0 27.5 ug/L 110 80.122 Bromodichloromethane 25.0 28.4 ug/L 107 72.134 Carbon disulfide 25.0 26.8 ug/L 107 72.134 Chloroethane | 1,2,4-Trichlorobenzene | | 25.9 | | ug/L | | 104 | 79 - 122 | |
| 1,2-Dichlorogenane 25.0 25.9 ug/L 104 75.120 1,3-Dichloropopane 25.0 27.4 ug/L 110 76.120 1,3-Dichlorobenzene 25.0 26.1 ug/L 105 77.120 1,4-Dichlorobenzene 25.0 25.7 ug/L 103 80.120 2-Butanone (MEK) 125 143 ug/L 114 57.140 2-Hexanone 125 144 ug/L 113 71.125 Acetone 125 139 ug/L 104 71.124 Benzene 25.0 26.1 ug/L 104 71.124 Bromodichloromethane 25.0 27.5 ug/L 104 71.124 Bromodichloromethane 25.0 28.5 ug/L 104 71.124 Bromodofibar 25.0 28.5 ug/L 104 71.124 Bromodichloromethane 25.0 28.5 ug/L 101 80.122 Bromodofibar 25.0 28.4 ug/L 102 59.134 Carbon disulifde 25.0 28. | 1,2-Dibromo-3-Chloropropane | | | | - | | 113 | 56 - 134 | |
| 1.2-Dichloropropane 25.0 27.4 ug/L 110 76.120 1.3-Dichlorobenzene 25.0 26.1 ug/L 105 77.120 1.4-Dichlorobenzene 25.0 26.7 ug/L 103 80.120 2-Butanone (MEK) 125 143 ug/L 114 57.140 2-Hexanone 125 144 ug/L 113 71.125 A-Methyl-2-pentanone (MIBK) 125 141 ug/L 113 71.125 Acetone 125 139 ug/L 114 56.142 Benzene 25.0 26.1 ug/L 104 71.124 Bromodichloromethane 25.0 27.5 ug/L 110 80.122 Bromoform 25.0 28.5 ug/L 114 61.132 Bromoform 25.0 28.4 ug/L 102 59.134 Carbon disulfide 25.0 26.4 ug/L 107 72.134 Chlorobenzene 25.0 24.7 ug/L 97 69.136 Chloroothiforomethane 25.0 26.0 <td>1,2-Dichlorobenzene</td> <td>25.0</td> <td>26.9</td> <td></td> <td>ug/L</td> <td></td> <td>107</td> <td>80 - 124</td> <td></td> | 1,2-Dichlorobenzene | 25.0 | 26.9 | | ug/L | | 107 | 80 - 124 | |
| 1,3-Dichlorobenzene25.026.1ug/L10577.1201.4-Dichlorobenzene25.025.7ug/L10380.1202-Butanone (MEK)125143ug/L11457.1402-Hexanone125148ug/L11965.1274-Methyl-2-pentanone (MIBK)125141ug/L11371.125Acetone125139ug/L11156.142Benzene25.026.1ug/L10471.124Bromodichloromethane25.027.5ug/L11461.132Bromodichloromethane25.025.4ug/L10259.134Carbon disulfide25.026.4ug/L10259.134Carbon disulfide25.028.1ug/L11375.125Chlorobenzene25.028.1ug/L11375.125Dibromochloromethane25.028.1ug/L10772.134Chlorobenzene25.028.1ug/L10373.127Chloroform25.025.8ug/L10373.127Chloroform25.025.8ug/L10374.124cis-1,3-Dichloroptopene25.027.0ug/L10874.124cis-1,2-Dichloroptopene25.027.0ug/L10374.124cis-1,2-Dichloroptopene25.027.0ug/L10374.124cis-1,3-Dichloroptopene25.027.0ug/L10374.124cis-1,2-Dichloroptenene | 1,2-Dichloroethane | 25.0 | 25.9 | | ug/L | | 104 | 75 - 120 | |
| 1.4-Dichlorobenzene 25.0 25.7 ug/L 103 80.120 2-Butanone (MEK) 125 143 ug/L 114 57.140 2-Hexanone 125 148 ug/L 119 65.127 4-Methyl-2-pentanone (MIBK) 125 141 ug/L 113 71.125 Acetone 125 139 ug/L 111 56.142 Benzene 25.0 26.1 ug/L 104 71.124 Bromodichloromethane 25.0 27.5 ug/L 110 80.120 Bromoform 25.0 28.5 ug/L 110 80.122 Bromoform 25.0 28.5 ug/L 104 71.124 Bromoform 25.0 28.5 ug/L 102 59.134 Carbon tetrachloride 25.0 26.4 ug/L 102 59.134 Carbon tetrachloride 25.0 28.1 ug/L 113 75.125 Chlorobenzene 25.0 24.7 ug/L 99 80.120 Dibromochloromethane 25.0 25.0 | 1,2-Dichloropropane | 25.0 | 27.4 | | ug/L | | 110 | 76 - 120 | |
| 2-Butanone (MEK) 125 143 ug/L 114 57.140 2-Hexanone 125 148 ug/L 119 65.127 4-Methyl-2-pentanone (MIBK) 125 141 ug/L 113 71.125 Acetone 125 139 ug/L 111 56.142 Benzene 25.0 26.1 ug/L 104 71.124 Bromodichloromethane 25.0 27.5 ug/L 110 80.122 Bromoform 25.0 28.5 ug/L 110 80.122 Bromothane 25.0 28.5 ug/L 102 59.134 Carbon lisulfide 25.0 26.4 ug/L 102 59.134 Carbon tetrachloride 25.0 26.4 ug/L 107 72.134 Chlorobenzene 25.0 28.1 ug/L 113 75.125 Chlorobenzene 25.0 25.6 ug/L 103 73.127 Chloromethane 25.0 25.6 ug/L 103 73.127 Chloromethane 25.0 25.6 ug/L< | 1,3-Dichlorobenzene | 25.0 | 26.1 | | ug/L | | 105 | 77 - 120 | |
| 2-Hexanone125148ug/L11965-1274-Methyl-2-pentanone (MIBK)125141ug/L11371-125Acetone125139ug/L11156-142Benzene25.026.1ug/L10471-124Bromodichloromethane25.027.5ug/L11080-122Bromodichloromethane25.028.5ug/L10259-134Carbon disulfide25.025.4ug/L10259-134Carbon disulfide25.026.8ug/L10259-134Carbon tetrachloride25.026.4ug/L10259-134Chlorobenzene25.026.4ug/L10772-134Dibromochloromethane25.028.1ug/L10373-127Chloroform25.025.6ug/L10373-127Chloroform25.025.8ug/L10374-124cis-1,2-Dichloroptene25.027.0ug/L10874-124Cyclohexane25.023.5ug/L10374-124Cyclohexane25.025.7ug/L10877-123J,2-Dichloromethane25.025.7ug/L10377-122Isopropylbenzene25.025.7ug/L10377-122Isopropylbenzene25.025.7ug/L10977-122Isopropylbenzene25.027.7ug/L10977-122Isopropylbenzene25.027.7 <td< td=""><td>1,4-Dichlorobenzene</td><td>25.0</td><td>25.7</td><td></td><td>ug/L</td><td></td><td>103</td><td>80 - 120</td><td></td></td<> | 1,4-Dichlorobenzene | 25.0 | 25.7 | | ug/L | | 103 | 80 - 120 | |
| 4-Methyl-2-pentanone (MIBK) 125 141 ug/L 113 71 - 125 Acetone 125 139 ug/L 111 56 - 142 Benzene 25.0 26.1 ug/L 104 71 - 124 Bromodichloromethane 25.0 27.5 ug/L 110 80 - 122 Bromoform 25.0 28.5 ug/L 114 61 - 132 Bromomethane 25.0 23.0 ug/L 92 55 - 144 Carbon disulfide 25.0 26.4 ug/L 102 59 - 134 Carbon tetrachloride 25.0 26.8 ug/L 107 72 - 134 Chlorobenzene 25.0 24.7 ug/L 103 75 - 125 Chlorobenzene 25.0 24.1 ug/L 113 75 - 125 Chlorothane 25.0 24.2 ug/L 103 73 - 127 Chloroform 25.0 25.6 ug/L 103 74 - 124 cis-1,2-Dichloropthene 25.0 25.0 27.0 ug/L 108 74 - 124 Cyclohexane | 2-Butanone (MEK) | 125 | 143 | | ug/L | | 114 | 57 - 140 | |
| Acetone125139ug/L11156 · 142Benzene25.026.1ug/L10471 · 124Bromodichloromethane25.027.5ug/L11080 · 122Bromoform25.028.5ug/L11461 · 132Bromomethane25.028.5ug/L9255 · 144Carbon disulfide25.026.4ug/L10259 · 134Carbon tetrachloride25.026.8ug/L10772 · 134Chlorobenzene25.024.7ug/L9980 · 120Dibromochloromethane25.028.1ug/L11375 · 125Chlorothane25.026.6ug/L10373 · 127Chlorothane25.025.6ug/L10373 · 127Chloromethane25.025.027.0ug/L10874 · 124cis-1,2-Dichlorothene25.025.023.5ug/L10374 · 124cis-1,2-Dichloromethane25.025.027.0ug/L10874 · 124Cyclohexane25.025.027.0ug/L10874 · 124Cyclohexane25.025.026.0ug/L10477 · 123I.2-Dichloromethane25.025.026.0ug/L10477 · 123Dichlorodifluoromethane25.025.7ug/L10377 · 120Isopropylbenzene25.025.7ug/L10377 · 120Isopropylbenzene25.02 | 2-Hexanone | 125 | 148 | | ug/L | | 119 | 65 - 127 | |
| Benzene25.026.1ug/L10471.124Bromodichloromethane25.027.5ug/L11080.122Bromoform25.028.5ug/L11461-132Bromomethane25.023.0ug/L9255.144Carbon disulfide25.025.4ug/L10259.134Carbon tetrachloride25.026.8ug/L10772.134Chlorobenzene25.024.7ug/L9980.120Dibromochloromethane25.028.1ug/L11375.125Chlorobenzena25.024.2ug/L9769.136Chloroform25.025.6ug/L10373.127Chloromethane25.025.8ug/L10374.124cis-1,2-Dichloroptene25.027.0ug/L10874.124cis-1,3-Dichloroptene25.027.0ug/L10874.124Cyclohexane25.027.0ug/L10374.124Dichlorodifluoromethane25.027.0ug/L10874.124Cyclohexane25.027.5ug/L10374.124Dichlorodifluoromethane25.025.7ug/L10377.120Isopropylbenzene25.025.7ug/L10377.120Isopropylbenzene25.025.7ug/L10377.120Isopropylbenzene25.027.7ug/L10377.120Isopropylbenzene25.027.7 | 4-Methyl-2-pentanone (MIBK) | 125 | 141 | | ug/L | | 113 | 71 - 125 | |
| Bromodichloromethane 25.0 27.5 ug/L 110 80.122 Bromoform 25.0 28.5 ug/L 114 61.132 Bromomethane 25.0 23.0 ug/L 92 55.144 Carbon disulfide 25.0 25.4 ug/L 102 59.134 Carbon tetrachloride 25.0 26.8 ug/L 107 72.134 Chlorobenzene 25.0 24.7 ug/L 13 75.125 Chloroethane 25.0 24.7 ug/L 99 80.120 Dibromochloromethane 25.0 24.2 ug/L 97 69.136 Chloroethane 25.0 25.6 ug/L 103 73.127 Chloroform 25.0 25.8 ug/L 103 74.124 cis-1,2-Dichloroethene 25.0 25.8 ug/L 108 74.124 Cyclohexane 25.0 27.0 ug/L 108 74.124 Cyclohexane 25.0 25.0 2 | Acetone | 125 | 139 | | ug/L | | 111 | 56 - 142 | |
| Bromoform25.028.5ug/L11461 - 132Bromomethane25.023.0ug/L9255 - 144Carbon disulfide25.025.4ug/L10259 - 134Carbon tetrachloride25.026.8ug/L10772 - 134Chlorobenzene25.024.7ug/L9980 - 120Dibromochloromethane25.024.7ug/L9769 - 136Chlorobenzene25.024.2ug/L9769 - 136Chlorothane25.025.6ug/L10373 - 127Chloromethane25.025.8ug/L10373 - 127Chloromethane25.025.8ug/L10374 - 124cis-1,2-Dichloroptene25.025.8ug/L10874 - 124cis-1,3-Dichloroptene25.027.0ug/L10874 - 124Cyclohexane25.025.7ug/L10477 - 123Dichlorodifluoromethane25.025.7ug/L10477 - 1231,2-Dibromoethane25.025.7ug/L10377 - 120Isopropylbenzene25.025.7ug/L10377 - 120Isopropylbenzene25.025.7ug/L10977 - 122Methyl acetate50.054.4ug/L10974 - 133Methyl tert-butyl ether25.027.0ug/L10877 - 120 | Benzene | 25.0 | 26.1 | | ug/L | | 104 | 71 - 124 | |
| Bromomethane25.023.0ug/L9255.144Carbon disulfide25.025.4ug/L10259.134Carbon tetrachloride25.026.8ug/L10772.134Chlorobenzene25.024.7ug/L9980.120Dibromochloromethane25.028.1ug/L11375.125Chloroethane25.024.2ug/L9769.136Chloroform25.025.6ug/L10373.127Chloromethane25.025.023.3ug/L9368.124cis-1,2-Dichloroethene25.025.8ug/L10374.124cis-1,3-Dichloropropene25.023.5ug/L10874.124Cyclohexane25.027.0ug/L10477.123Dichlorodifluoromethane25.025.7ug/L10377.120Isopropylbenzene25.025.7ug/L10377.120Isopropylbenzene25.027.2ug/L10977.122Methyl acetate50.054.4ug/L10974.133 | Bromodichloromethane | 25.0 | 27.5 | | ug/L | | 110 | 80 - 122 | |
| Carbon disulfide25.025.4ug/L10259.134Carbon tetrachloride25.026.8ug/L10772.134Chlorobenzene25.024.7ug/L9980.120Dibromochloromethane25.028.1ug/L11375.125Chlorobetnane25.024.2ug/L9769.136Chloroform25.025.6ug/L10373.127Chloromethane25.025.023.3ug/L9368.124cis-1,2-Dichloroethene25.025.8ug/L10374.124cis-1,3-Dichloropropene25.027.0ug/L10874.124Cyclohexane25.023.5ug/L9459.135Dichlorodifluoromethane25.025.027.0ug/L10477.1231,2-Dibromoethane25.025.7ug/L10377.120Isopropylbenzene25.027.2ug/L10977.122Methyl acetate50.054.4ug/L10974.133Methyl tert-butyl ether25.027.0ug/L10877.120 | Bromoform | 25.0 | 28.5 | | ug/L | | 114 | 61 - 132 | |
| Carbon tetrachloride25.026.8ug/L10772.134Chlorobenzene25.024.7ug/L9980.120Dibromochloromethane25.028.1ug/L11375.125Chloroethane25.024.2ug/L9769.136Chloroform25.025.6ug/L10373.127Chloromethane25.023.3ug/L9368.124cis-1,2-Dichloroethene25.025.8ug/L10374.124cis-1,3-Dichloropropene25.027.0ug/L10874.124Cyclohexane25.023.5ug/L9459.135Dichlorodifluoromethane25.025.023.5ug/L701,2-Dibromoethane25.025.7ug/L10377.120Isopropylbenzene25.025.7ug/L10377.120Isopropylbenzene25.027.2ug/L10977.122Methyl acetate50.054.4ug/L10974.133Methyl tert-butyl ether25.027.0ug/L10877.120 | Bromomethane | 25.0 | 23.0 | | ug/L | | 92 | 55 - 144 | |
| Chlorobenzene25.024.7ug/L9980.120Dibromochloromethane25.028.1ug/L11375.125Chloroethane25.024.2ug/L9769.136Chloroform25.025.6ug/L10373.127Chloromethane25.025.3ug/L9368.124cis-1,2-Dichloroethene25.025.8ug/L10374.124cis-1,3-Dichloropropene25.027.0ug/L10874.124Cyclohexane25.023.5ug/L9459.135Dichlorodifluoromethane25.025.026.0ug/L70Lyblenzene25.026.0ug/L10477.1231,2-Dibromoethane25.025.7ug/L10377.120Isopropylbenzene25.027.2ug/L10977.122Methyl acetate50.054.4ug/L10974.133Methyl tert-butyl ether25.027.0ug/L10877.120 | Carbon disulfide | 25.0 | 25.4 | | ug/L | | 102 | 59 - 134 | |
| Dibromochloromethane25.028.1ug/L11375.125Chloroethane25.024.2ug/L9769.136Chloroform25.025.6ug/L10373.127Chloromethane25.023.3ug/L9368.124cis-1,2-Dichloroethene25.025.8ug/L10374.124cis-1,3-Dichloropropene25.027.0ug/L10874.124Cyclohexane25.023.5ug/L9459.135Dichlorodifluoromethane25.027.0ug/L7059.135Ethylbenzene25.026.0ug/L10477.1231,2-Dibromoethane25.025.7ug/L10377.120Isopropylbenzene25.027.2ug/L10977.122Methyl acetate50.054.4ug/L10974.133Methyl tert-butyl ether25.027.0ug/L10877.120 | Carbon tetrachloride | 25.0 | 26.8 | | ug/L | | 107 | 72 - 134 | |
| Chloroethane25.024.2ug/L9769.136Chloroform25.025.6ug/L10373.127Chloromethane25.023.3ug/L9368.124cis-1,2-Dichloroethene25.025.8ug/L10374.124cis-1,3-Dichloropropene25.027.0ug/L10874.124Cyclohexane25.023.5ug/L9459.135Dichlorodifluoromethane25.025.017.5ug/L7059.135Ethylbenzene25.026.0ug/L10477.1231,2-Dibromoethane25.025.7ug/L10377.120Isopropylbenzene25.027.2ug/L10977.122Methyl acetate50.054.4ug/L10974.133Methyl tert-butyl ether25.027.0ug/L10877.120 | Chlorobenzene | 25.0 | 24.7 | | ug/L | | 99 | 80 - 120 | |
| Chloroform25.025.6ug/L10373 - 127Chloromethane25.023.3ug/L9368 - 124cis-1,2-Dichloroethene25.025.8ug/L10374 - 124cis-1,3-Dichloropropene25.027.0ug/L10874 - 124Cyclohexane25.023.5ug/L9459 - 135Dichlorodifluoromethane25.017.5ug/L7059 - 135Ethylbenzene25.026.0ug/L10477 - 1231,2-Dibromoethane25.025.7ug/L10377 - 120Isopropylbenzene25.027.2ug/L10977 - 122Methyl acetate50.054.4ug/L10974 - 133Methyl tert-butyl ether25.027.0ug/L10877 - 120 | Dibromochloromethane | 25.0 | 28.1 | | ug/L | | 113 | 75 - 125 | |
| Chloromethane25.023.3ug/L9368 - 124cis-1,2-Dichloroethene25.025.8ug/L10374 - 124cis-1,3-Dichloropropene25.027.0ug/L10874 - 124Cyclohexane25.023.5ug/L9459 - 135Dichlorodifluoromethane25.017.5ug/L7059 - 135Ethylbenzene25.026.0ug/L10477 - 1231,2-Dibromoethane25.025.7ug/L10377 - 120Isopropylbenzene25.027.2ug/L10977 - 122Methyl acetate50.054.4ug/L10974 - 133Methyl tert-butyl ether25.027.0ug/L10877 - 120 | Chloroethane | 25.0 | 24.2 | | ug/L | | 97 | 69 - 136 | |
| cis-1,2-Dichloroethene25.025.8ug/L10374 - 124cis-1,3-Dichloropropene25.027.0ug/L10874 - 124Cyclohexane25.023.5ug/L9459 - 135Dichlorodifluoromethane25.017.5ug/L7059 - 135Ethylbenzene25.026.0ug/L10477 - 1231,2-Dibromoethane25.025.7ug/L10377 - 120Isopropylbenzene25.027.2ug/L10977 - 122Methyl acetate50.054.4ug/L10974 - 133Methyl tert-butyl ether25.027.0ug/L10877 - 120 | Chloroform | 25.0 | 25.6 | | ug/L | | 103 | 73 - 127 | |
| cis-1,3-Dichloropropene25.027.0ug/L10874 - 124Cyclohexane25.023.5ug/L9459 - 135Dichlorodifluoromethane25.017.5ug/L7059 - 135Ethylbenzene25.026.0ug/L10477 - 1231,2-Dibromoethane25.025.7ug/L10377 - 120Isopropylbenzene25.027.2ug/L10977 - 122Methyl acetate50.054.4ug/L10974 - 133Methyl tert-butyl ether25.027.0ug/L10877 - 120 | Chloromethane | 25.0 | 23.3 | | ug/L | | 93 | 68 - 124 | |
| Cyclohexane25.023.5ug/L9459 - 135Dichlorodifluoromethane25.017.5ug/L7059 - 135Ethylbenzene25.026.0ug/L10477 - 1231,2-Dibromoethane25.025.7ug/L10377 - 120Isopropylbenzene25.027.2ug/L10977 - 122Methyl acetate50.054.4ug/L10974 - 133Methyl tert-butyl ether25.027.0ug/L10877 - 120 | cis-1,2-Dichloroethene | 25.0 | 25.8 | | ug/L | | 103 | 74 ₋ 124 | |
| Dichlorodifluoromethane25.017.5ug/L7059 - 135Ethylbenzene25.026.0ug/L10477 - 1231,2-Dibromoethane25.025.7ug/L10377 - 120Isopropylbenzene25.027.2ug/L10977 - 122Methyl acetate50.054.4ug/L10974 - 133Methyl tert-butyl ether25.027.0ug/L10877 - 120 | cis-1,3-Dichloropropene | 25.0 | 27.0 | | ug/L | | 108 | 74 - 124 | |
| Ethylbenzene25.026.0ug/L10477 - 1231,2-Dibromoethane25.025.7ug/L10377 - 120Isopropylbenzene25.027.2ug/L10977 - 122Methyl acetate50.054.4ug/L10974 - 133Methyl tert-butyl ether25.027.0ug/L10877 - 120 | Cyclohexane | 25.0 | 23.5 | | ug/L | | 94 | 59 ₋ 135 | |
| 1,2-Dibromoethane25.025.7ug/L10377 - 120Isopropylbenzene25.027.2ug/L10977 - 122Methyl acetate50.054.4ug/L10974 - 133Methyl tert-butyl ether25.027.0ug/L10877 - 120 | Dichlorodifluoromethane | 25.0 | 17.5 | | ug/L | | 70 | 59 - 135 | |
| Isopropylbenzene25.027.2ug/L10977 - 122Methyl acetate50.054.4ug/L10974 - 133Methyl tert-butyl ether25.027.0ug/L10877 - 120 | Ethylbenzene | 25.0 | 26.0 | | ug/L | | 104 | 77 - 123 | |
| Methyl acetate 50.0 54.4 ug/L 109 74 - 133 Methyl tert-butyl ether 25.0 27.0 ug/L 108 77 - 120 | 1,2-Dibromoethane | 25.0 | 25.7 | | | | 103 | 77 - 120 | |
| Methyl acetate 50.0 54.4 ug/L 109 74 - 133 Methyl tert-butyl ether 25.0 27.0 ug/L 108 77 - 120 | Isopropylbenzene | 25.0 | 27.2 | | ug/L | | 109 | 77 _ 122 | |
| Methyl tert-butyl ether 25.0 27.0 ug/L 108 77 - 120 | Methyl acetate | 50.0 | 54.4 | | - | | 109 | 74 - 133 | |
| | Methyl tert-butyl ether | 25.0 | 27.0 | | ug/L | | 108 | 77 - 120 | |
| | Methylcyclohexane | 25.0 | 23.1 | | ug/L | | 93 | 68 - 134 | |

Eurofins TestAmerica, Buffalo

Prep Type: Total/NA

Client Sample ID: Method Blank

12/07/19 13:10

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

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

MD MD

Lab Sample ID: LCS 480-508640/5 Matrix: Water

Analysis Batch: 508640

| | Spike | LCS | LCS | | | | %Rec. |
|-------------------------|-------|--------|-----------|------|---|------|---------------------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Methylene Chloride | 25.0 | 26.7 | | ug/L | | 107 | 75 - 124 |
| Styrene | 25.0 | 27.1 | | ug/L | | 109 | 80 - 120 |
| Fetrachloroethene | 25.0 | 24.9 | | ug/L | | 100 | 74 ₋ 122 |
| Toluene | 25.0 | 24.9 | | ug/L | | 100 | 80 - 122 |
| rans-1,2-Dichloroethene | 25.0 | 26.8 | | ug/L | | 107 | 73 - 127 |
| ans-1,3-Dichloropropene | 25.0 | 27.6 | | ug/L | | 110 | 80 - 120 |
| richloroethene | 25.0 | 25.6 | | ug/L | | 103 | 74 - 123 |
| richlorofluoromethane | 25.0 | 20.5 | | ug/L | | 82 | 62 - 150 |
| /inyl chloride | 25.0 | 22.6 | | ug/L | | 90 | 65 - 133 |

| | LUS | LCS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| Toluene-d8 (Surr) | 102 | | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 77 - 120 |
| 4-Bromofluorobenzene (Surr) | 95 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 103 | | 75 - 123 |

Lab Sample ID: MB 480-508737/7 Matrix: Water Analysis Batch: 508737

| | MB | MB | | | | | | | |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 12/09/19 10:59 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 12/09/19 10:59 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 12/09/19 10:59 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 12/09/19 10:59 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 12/09/19 10:59 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 12/09/19 10:59 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 12/09/19 10:59 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 12/09/19 10:59 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 12/09/19 10:59 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 12/09/19 10:59 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 12/09/19 10:59 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 12/09/19 10:59 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 12/09/19 10:59 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 12/09/19 10:59 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 12/09/19 10:59 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 12/09/19 10:59 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 12/09/19 10:59 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 12/09/19 10:59 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 12/09/19 10:59 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 12/09/19 10:59 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 12/09/19 10:59 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 12/09/19 10:59 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 12/09/19 10:59 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 12/09/19 10:59 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 12/09/19 10:59 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 12/09/19 10:59 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 12/09/19 10:59 | 1 |

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

14 15

Job ID: 480-163694-1

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

7 8

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

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

Lab Sample ID: MB 480-508737/7 Matrix: Water

Analysis Batch: 508737

| - | MB | МВ | | | | | | | |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 12/09/19 10:59 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 12/09/19 10:59 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 12/09/19 10:59 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 12/09/19 10:59 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 12/09/19 10:59 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 12/09/19 10:59 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 12/09/19 10:59 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 12/09/19 10:59 | 1 |
| Methyl acetate | ND | | 2.5 | 1.3 | ug/L | | | 12/09/19 10:59 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 12/09/19 10:59 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 12/09/19 10:59 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 12/09/19 10:59 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 12/09/19 10:59 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 12/09/19 10:59 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 12/09/19 10:59 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 12/09/19 10:59 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 12/09/19 10:59 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 12/09/19 10:59 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 12/09/19 10:59 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 12/09/19 10:59 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 12/09/19 10:59 | 1 |
| | 110 | MD | | | | | | | |

| | MB MB | | | | | |
|------------------------------|--------------------|----------|----------|----------------|---------|--|
| Surrogate | %Recovery Qualifie | r Limits | Prepared | Analyzed | Dil Fac | |
| Toluene-d8 (Surr) | 100 | 80 - 120 | | 12/09/19 10:59 | 1 | |
| 1,2-Dichloroethane-d4 (Surr) | 98 | 77 - 120 | | 12/09/19 10:59 | 1 | |
| 4-Bromofluorobenzene (Surr) | 98 | 73 - 120 | | 12/09/19 10:59 | 1 | |
| Dibromofluoromethane (Surr) | 99 | 75 - 123 | | 12/09/19 10:59 | 1 | |

Lab Sample ID: LCS 480-508737/5 **Matrix: Water** Analysis Batch: 508737

| · ······ | Spike | LCS | LCS | | | | %Rec. | |
|-------------------------------------|-------|--------|-----------|------|---|------|---------------------|---|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1,1-Trichloroethane | 25.0 | 24.5 | | ug/L | | 98 | 73 - 126 | - |
| 1,1,2,2-Tetrachloroethane | 25.0 | 25.4 | | ug/L | | 102 | 76 - 120 | |
| 1,1,2-Trichloroethane | 25.0 | 24.0 | | ug/L | | 96 | 76 - 122 | |
| 1,1,2-Trichloro-1,2,2-trifluoroetha | 25.0 | 23.3 | | ug/L | | 93 | 61 - 148 | |
| ne | | | | | | | | |
| 1,1-Dichloroethane | 25.0 | 26.1 | | ug/L | | 104 | 77 - 120 | |
| 1,1-Dichloroethene | 25.0 | 24.4 | | ug/L | | 98 | 66 - 127 | |
| 1,2,4-Trichlorobenzene | 25.0 | 24.5 | | ug/L | | 98 | 79 - 122 | |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 28.1 | | ug/L | | 112 | 56 - 134 | |
| 1,2-Dichlorobenzene | 25.0 | 24.4 | | ug/L | | 98 | 80 - 124 | |
| 1,2-Dichloroethane | 25.0 | 23.6 | | ug/L | | 95 | 75 ₋ 120 | |
| 1,2-Dichloropropane | 25.0 | 25.3 | | ug/L | | 101 | 76 - 120 | |
| 1,3-Dichlorobenzene | 25.0 | 25.0 | | ug/L | | 100 | 77 - 120 | |
| 1,4-Dichlorobenzene | 25.0 | 24.8 | | ug/L | | 99 | 80 - 120 | |
| 2-Butanone (MEK) | 125 | 235 | * | ug/L | | 188 | 57 - 140 | |
| 2-Hexanone | 125 | 139 | | ug/L | | 112 | 65 - 127 | |

Eurofins TestAmerica, Buffalo

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Job ID: 480-163694-1

Prep Type: Total/NA

8

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

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

Lab Sample ID: LCS 480-508737/5

Matrix: Water Analysis Batch: 508737

| Analysis Datch. 300737 | Spike | 1.09 | LCS | | | %Rec. | |
|-----------------------------|-------|------|-----------|------|----------------------------------|---------------------|---|
| Analyte | Added | | Qualifier | Unit | D %Rec | Limits | |
| 4-Methyl-2-pentanone (MIBK) | | 134 | Quaimer | | $-\frac{1}{2}$ $\frac{107}{107}$ | 71 - 125 | |
| Acetone | 125 | 132 | | ug/L | 105 | 56 - 142 | |
| Benzene | 25.0 | 24.4 | | ug/L | 97 | 71 - 124 | |
| Bromodichloromethane | 25.0 | 25.2 | | ug/L | 101 | 80 - 122 | |
| Bromoform | 25.0 | 26.8 | | ug/L | 107 | 61 - 132 | |
| Bromomethane | 25.0 | 19.1 | | ug/L | 76 | 55 <u>-</u> 144 | 8 |
| Carbon disulfide | 25.0 | 24.8 | | ug/L | 99 | 59 - 134 | |
| Carbon tetrachloride | 25.0 | 25.8 | | ug/L | 103 | 72 - 134 | 9 |
| Chlorobenzene | 25.0 | 23.7 | | ug/L | 95 | 80 - 120 | |
| Dibromochloromethane | 25.0 | 26.5 | | ug/L | 106 | 75 - 125 | |
| Chloroethane | 25.0 | 20.3 | | ug/L | 81 | 69 - 136 | |
| Chloroform | 25.0 | 23.9 | | ug/L | 96 | 73 - 127 | |
| Chloromethane | 25.0 | 24.4 | | ug/L | 98 | 68 - 124 | |
| cis-1,2-Dichloroethene | 25.0 | 23.9 | | ug/L | 96 | 74 - 124 | |
| cis-1,3-Dichloropropene | 25.0 | 25.9 | | ug/L | 104 | 74 ₋ 124 | |
| Cyclohexane | 25.0 | 26.2 | | ug/L | 105 | 59 ₋ 135 | |
| Dichlorodifluoromethane | 25.0 | 22.3 | | ug/L | 89 | 59 - 135 | |
| Ethylbenzene | 25.0 | 25.0 | | ug/L | 100 | 77 - 123 | |
| 1,2-Dibromoethane | 25.0 | 24.3 | | ug/L | 97 | 77 - 120 | |
| Isopropylbenzene | 25.0 | 26.2 | | ug/L | 105 | 77 - 122 | |
| Methyl acetate | 50.0 | 51.6 | | ug/L | 103 | 74 ₋ 133 | |
| Methyl tert-butyl ether | 25.0 | 24.1 | | ug/L | 97 | 77 - 120 | |
| Methylcyclohexane | 25.0 | 25.7 | | ug/L | 103 | 68 - 134 | |
| Methylene Chloride | 25.0 | 24.2 | | ug/L | 97 | 75 - 124 | |
| Styrene | 25.0 | 25.6 | | ug/L | 102 | 80 - 120 | |
| Tetrachloroethene | 25.0 | 25.0 | | ug/L | 100 | 74 - 122 | |
| Toluene | 25.0 | 23.7 | | ug/L | 95 | 80 - 122 | |
| trans-1,2-Dichloroethene | 25.0 | 24.6 | | ug/L | 99 | 73 - 127 | |
| trans-1,3-Dichloropropene | 25.0 | 25.6 | | ug/L | 102 | 80 - 120 | |
| Trichloroethene | 25.0 | 24.6 | | ug/L | 98 | 74 - 123 | |
| Trichlorofluoromethane | 25.0 | 21.9 | | ug/L | 88 | 62 - 150 | |
| Vinyl chloride | 25.0 | 23.0 | | ug/L | 92 | 65 - 133 | |
| | | | | | | | |

| | LCS | LCS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| Toluene-d8 (Surr) | 97 | | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 77 - 120 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 97 | | 75 - 123 |

Lab Sample ID: LCSD 480-508737/28 Matrix: Water Analysis Batch: 508737

Spike LCSD LCSD %Rec. RPD Added Result Qualifier Unit Limits RPD Analyte D %Rec Limit 1,1,1-Trichloroethane 25.0 24.4 ug/L 98 73 - 126 0 15 1,1,2,2-Tetrachloroethane 25.0 24.8 ug/L 99 76 - 120 3 15 25.0 23.8 76 - 122 1,1,2-Trichloroethane ug/L 95 15 1 1,1,2-Trichloro-1,2,2-trifluoroetha 25.0 22.3 ug/L 89 61 - 148 4 20 ne

Eurofins TestAmerica, Buffalo

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

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Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

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8

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

Lab Sample ID: LCSD 480-508737/28 Matrix: Water

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

| Analysis Batch: 508737 | | | | | | | Prep Ty | pe: Tot | al/NA |
|-----------------------------|-------|------|-----------|------|---|------|---------------------|---------|-------|
| Analysis Baten. 000707 | Spike | | LCSD | | | | %Rec. | | RPD |
| Analyte | Added | | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 1,1-Dichloroethane | 25.0 | 24.7 | | ug/L | | 99 | 77 - 120 | 6 | 20 |
| 1,1-Dichloroethene | 25.0 | 23.6 | | ug/L | | 94 | 66 - 127 | 3 | 16 |
| 1,2,4-Trichlorobenzene | 25.0 | 25.1 | | ug/L | | 100 | 79 - 122 | 2 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 27.5 | | ug/L | | 110 | 56 - 134 | 2 | 15 |
| 1,2-Dichlorobenzene | 25.0 | 24.9 | | ug/L | | 100 | 80 - 124 | 2 | 20 |
| 1,2-Dichloroethane | 25.0 | 23.1 | | ug/L | | 92 | 75 - 120 | 2 | 20 |
| 1,2-Dichloropropane | 25.0 | 24.9 | | ug/L | | 100 | 76 - 120 | 2 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 24.6 | | ug/L | | 98 | 77 _ 120 | 2 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 24.1 | | ug/L | | 96 | 80 - 120 | 3 | 20 |
| 2-Butanone (MEK) | 125 | 231 | * | ug/L | | 185 | 57 - 140 | 2 | 20 |
| 2-Hexanone | 125 | 140 | | ug/L | | 112 | 65 - 127 | 0 | 15 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 136 | | ug/L | | 109 | 71 - 125 | 2 | 35 |
| Acetone | 125 | 128 | | ug/L | | 103 | 56 - 142 | 3 | 15 |
| Benzene | 25.0 | 23.9 | | ug/L | | 96 | 71 - 124 | 2 | 13 |
| Bromodichloromethane | 25.0 | 25.8 | | ug/L | | 103 | 80 - 122 | 2 | 15 |
| Bromoform | 25.0 | 27.2 | | ug/L | | 109 | 61 - 132 | 2 | 15 |
| Bromomethane | 25.0 | 18.2 | | ug/L | | 73 | 55 - 144 | 5 | 15 |
| Carbon disulfide | 25.0 | 23.2 | | ug/L | | 93 | 59 - 134 | 7 | 15 |
| Carbon tetrachloride | 25.0 | 25.3 | | ug/L | | 101 | 72 - 134 | 2 | 15 |
| Chlorobenzene | 25.0 | 24.2 | | ug/L | | 97 | 80 - 120 | 2 | 25 |
| Dibromochloromethane | 25.0 | 27.6 | | ug/L | | 111 | 75 - 125 | 4 | 15 |
| Chloroethane | 25.0 | 17.8 | | ug/L | | 71 | 69 - 136 | 14 | 15 |
| Chloroform | 25.0 | 23.5 | | ug/L | | 94 | 73 - 127 | 2 | 20 |
| Chloromethane | 25.0 | 23.1 | | ug/L | | 92 | 68 - 124 | 6 | 15 |
| cis-1,2-Dichloroethene | 25.0 | 22.8 | | ug/L | | 91 | 74 ₋ 124 | 5 | 15 |
| cis-1,3-Dichloropropene | 25.0 | 25.6 | | ug/L | | 103 | 74 ₋ 124 | 1 | 15 |
| Cyclohexane | 25.0 | 24.6 | | ug/L | | 98 | 59 - 135 | 6 | 20 |
| Dichlorodifluoromethane | 25.0 | 22.2 | | ug/L | | 89 | 59 ₋ 135 | 1 | 20 |
| Ethylbenzene | 25.0 | 25.1 | | ug/L | | 100 | 77 - 123 | 1 | 15 |
| 1,2-Dibromoethane | 25.0 | 25.3 | | ug/L | | 101 | 77 - 120 | 4 | 15 |
| Isopropylbenzene | 25.0 | 25.5 | | ug/L | | 102 | 77 - 122 | 3 | 20 |
| Methyl acetate | 50.0 | 50.5 | | ug/L | | 101 | 74 - 133 | 2 | 20 |
| Methyl tert-butyl ether | 25.0 | 23.4 | | ug/L | | 94 | 77 - 120 | 3 | 37 |
| Methylcyclohexane | 25.0 | 24.6 | | ug/L | | 98 | 68 - 134 | 4 | 20 |
| Methylene Chloride | 25.0 | 23.2 | | ug/L | | 93 | 75 - 124 | 4 | 15 |
| Styrene | 25.0 | 25.7 | | ug/L | | 103 | 80 - 120 | 1 | 20 |
| Tetrachloroethene | 25.0 | 25.0 | | ug/L | | 100 | 74 - 122 | 0 | 20 |
| Toluene | 25.0 | 23.7 | | ug/L | | 95 | 80 - 122 | 0 | 15 |
| trans-1,2-Dichloroethene | 25.0 | 23.8 | | ug/L | | 95 | 73 - 127 | 3 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 26.7 | | ug/L | | 107 | 80 - 120 | 4 | 15 |
| Trichloroethene | 25.0 | 23.4 | | ug/L | | 94 | 74 - 123 | 5 | 16 |
| Trichlorofluoromethane | 25.0 | 21.5 | | ug/L | | 86 | 62 - 150 | 2 | 20 |
| Vinyl chloride | 25.0 | 22.5 | | ug/L | | 90 | 65 ₋ 133 | 2 | 15 |
| | | | | - | | | | | |

| | LCSD | LCSD | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| Toluene-d8 (Surr) | 100 | | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 77 - 120 |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 |

| Lab Sample ID: LCSD 48 | 0-508737/28 | | | Client Sample ID: Lab Control Sample Dup | |
|---|-------------------|-------------------|----------|--|---|
| Matrix: Water Analysis Batch: 508737 | 0-500757720 | | | Prep Type: Total/NA | |
| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits | | 5 |
| Dibromofluoromethane (Surr) | 98 | | 75 - 123 | | |
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QC Association Summary

Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

Job ID: 480-163694-1

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| Analysis | Batch: | 508640 |
|----------|--------|--------|
| Analysis | Duton. | 000040 |

GC/MS VOA

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-163694-1 | MW-12 | Total/NA | Water | 8260C | |
| 480-163694-4 | MW-07R | Total/NA | Water | 8260C | |
| 480-163694-5 | MW-04 | Total/NA | Water | 8260C | |
| 480-163694-6 | EX-MW12 | Total/NA | Water | 8260C | |
| 480-163694-7 | MW-02R | Total/NA | Water | 8260C | |
| 480-163694-8 | EX-MW-11R | Total/NA | Water | 8260C | |
| 480-163694-9 | AL-2 | Total/NA | Water | 8260C | |
| 480-163694-11 | AL-7 | Total/NA | Water | 8260C | |
| 480-163694-12 | TRIP BLANK | Total/NA | Water | 8260C | |
| MB 480-508640/7 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-508640/5 | Lab Control Sample | Total/NA | Water | 8260C | |

Analysis Batch: 508737

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 480-163694-2 | MW-09R | Total/NA | Water | 8260C | |
| 480-163694-3 | FIELD DUPLICATE | Total/NA | Water | 8260C | |
| 480-163694-10 | AL-1 | Total/NA | Water | 8260C | |
| MB 480-508737/7 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-508737/5 | Lab Control Sample | Total/NA | Water | 8260C | |
| LCSD 480-508737/28 | Lab Control Sample Dup | Total/NA | Water | 8260C | |

Lab Chronicle Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

Job ID: 480-163694-1

| Client Com | | 40 | | | | | Lah Ca | | 400 402004 |
|---|---|---|------------|--|---|---|---|----------------|--|
| Client Sam | | | | | | | Lab Sa | | 480-163694- |
| ate Collecte | | | | | | | | | Matrix: Wate |
| | u. 12/05/19 1 | 0.45 | | | | | | | |
| | Batch | Batch | | Dilution | Batch | Prepared | | | |
| Ргер Туре | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab | _ |
| Total/NA | Analysis | 8260C | | 2 | 508640 | 12/07/19 16:07 | RJF | TAL BUF | |
| Client Sam | ole ID: MW | -09R | | | | | Lab Sa | mple ID: | 480-163694-2 |
| Date Collecte | | | | | | | | | Matrix: Wate |
| Date Received | d: 12/05/19 1 | 6:45 | | | | | | | |
| - | Batch | Batch | | Dilution | Batch | Prepared | | | |
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab | |
| Total/NA | Analysis | - 8260C | | $-\frac{1000}{4}$ | 508737 | 12/09/19 11:32 | - | TAL BUF | - |
| | , inaryolo | 02000 | | | 000101 | 12/00/10 11:02 | 511 | | |
| Client Sam | ole ID: FIE | | ATE | | | | Lab Sa | imple ID: | 480-163694-3 |
| Date Collecte | d: 12/05/19 0 | 9:20 | | | | | | | Matrix: Wate |
| Date Received | d: 12/05/19 1 | 6:45 | | | | | | | |
| _ | Batch | Batch | | Dilution | Batch | Prepared | | | |
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab | |
| Total/NA | Analysis | 8260C | | | 508737 | 12/09/19 11:57 | BTP | TAL BUF | - |
| - | | | | | | | | | |
| Client Sami | ole ID: MW | -07R | | | | | Lab Sa | imple ID: | 480-163694- |
| | | | | | | | | | |
| Date Collecte | d: 12/05/19 1 | 1:30 | | | | | | | Matrix: Wate |
| Date Collecte | d: 12/05/19 1 | 1:30 | | | | | | | Matrix: Wate |
| Date Collecte | d: 12/05/19 1 | 1:30 | | Dilution | Batch | Prepared | | | Matrix: Wate |
| Date Collecter Date Received | d: 12/05/19 1 d: 12/05/19 1 | 1:30 6:45 | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab | Matrix: Wate |
| Date Collecte | d: 12/05/19 1 d: 12/05/19 1 Batch | 1:30 6:45 Batch | Run | | | • | • | Lab TAL BUF | Matrix: Wate |
| Date Collecter Date Received Prep Type Total/NA | d: 12/05/19 1 d: 12/05/19 1 Batch Type Analysis | 1:30 6:45 Batch Method 8260C | Run | Factor | Number | or Analyzed | RJF | TAL BUF | Matrix: Wate |
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| Date Collected Date Received Prep Type Total/NA Client Samp Date Collected | d: 12/05/19 1 d: 12/05/19 1 Batch Type Analysis Die ID: MW d: 12/05/19 1 | 1:30 6:45 Batch Method 8260C 7-04 2:05 | Run | Factor | Number | or Analyzed | RJF | TAL BUF | 480-163694- |
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| Date Collected Date Received Prep Type Total/NA Client Samp Date Collected | d: 12/05/19 1 d: 12/05/19 1 Batch Type Analysis ole ID: MW d: 12/05/19 1 | 1:30 6:45 Batch Method 8260C 7-04 2:05 | <u>Run</u> | Factor | Number | or Analyzed | RJF | TAL BUF | 480-163694- |
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| Prep Type Total/NA Client Samp Date Collected Date Collected Date Collected Date Collected Date Collected Date Collected Date Collected Date Collected Date Received Prep Type Total/NA Client Samp Date Collected Date Received Client Samp Date Collected Date Received | d: 12/05/19 1 Batch Type Analysis Die ID: MW d: 12/05/19 1 d: 12/05/19 1 Batch Type Analysis Die ID: EX- d: 12/05/19 1 d: 12/05/19 1 Batch Type Analysis Die ID: EX- d: 12/05/19 1 | 1:30 6:45 Batch Method 8260C -04 2:05 6:45 Batch Method 8260C MW12 3:00 6:45 Batch Batch Method 8260C | Run | Factor 4 Dilution Factor 4 Dilution Factor 4 | Number 508640 Batch Number 508640 Batch Number | or Analyzed 12/07/19 17:19 Prepared or Analyzed 12/07/19 17:43 Prepared or Analyzed | RJF Lab Sa Analyst RJF Lab Sa Analyst RJF | TAL BUF | 480-163694- Matrix: Wate 480-163694- Matrix: Wate |
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| Date Collected Date Received Total/NA Client Samp Date Collected Date Received Prep Type Total/NA Client Samp Date Collected Date Received Prep Type Total/NA Client Samp Date Collected Date Received | d: 12/05/19 1 Batch Type Analysis Die ID: MW d: 12/05/19 1 Die ID: MW d: 12/05/19 1 Batch Type Analysis Die ID: EX- d: 12/05/19 1 d: 12/05/19 1 Batch Type Analysis Die ID: MW d: 12/05/19 1 Batch Type Analysis Die ID: MW d: 12/05/19 1 Batch Type Analysis | 1:30 6:45 Batch Method 2:05 6:45 Batch Method 8260C MVV12 3:00 6:45 Batch Method 8260C C V-02R 3:40 6:45 Batch Batch Batch | Run | Factor 4 0 Dilution Factor 4 0 | Number 508640 Batch Number 508640 Batch Batch | or Analyzed 12/07/19 17:19 Prepared or Analyzed 12/07/19 17:43 Prepared or Analyzed 12/07/19 18:08 Prepared | RJF Lab Sa Analyst RJF Lab Sa Analyst RJF Lab Sa | TAL BUF | Matrix: Wate 480-163694- Matrix: Wate 480-163694- Matrix: Wate |
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Client: LaBella Associates DPC Project/Site: Alumax & Roblin Periodic Review Reports

| 163694-1 | Job ID: 48 | | | | i | ew Reports | | | Client: LaBella A Project/Site: Alu |
|----------------------|------------------|---------|----------------|--------|----------|------------|---------|-------------|---|
| 63694-8 ix: Water | ple ID: 480 M | Lab Sar | | | | | 4:20 | 12/05/19 14 | Client Sampl Date Collected: Date Received: |
| | | | Prepared | Batch | Dilution | | Batch | Batch | Γ |
| | ab | Analyst | or Analyzed | Number | Factor | Run | Method | Туре | Prep Type |
| | AL BUF | RJF | 12/07/19 18:56 | 508640 | 20 | | 8260C | Analysis | Total/NA |
| 63694-9 | ple ID: 480 | Lab Sar | | | | | 2 | e ID: AL- | Client Sampl |
| ix: Water | M | | | | | | 5:10 | 12/05/19 1 | Date Collected: |
| | | | | | | | 6:45 | 12/05/19 10 | Date Received: |
| | | | Prepared | Batch | Dilution | | Batch | Batch | |
| | ab | Analyst | or Analyzed | Number | Factor | Run | Method | Туре | Prep Type |
| | AL BUF | RJF | 12/07/19 19:20 | 508640 | | | 8260C | Analysis | Total/NA |
| 3694-10 | le ID: 480- | ab Sam | L | | | | 1 | e ID: AL- | Client Sampl |
| ix: Water | М | | | | | | | | Date Collected: Date Received: |
| | | | Prepared | Batch | Dilution | | Batch | Batch | Γ |
| | ab | Analyst | or Analyzed | Number | Factor | Run | Method | Туре | Prep Type |
| | AL BUF | BTP | 12/09/19 12:21 | 508737 | 4 | | 8260C | Analysis | Total/NA |
| 3694-11 | le ID: 480- | ab Sam | L | | | | 7 | e ID: AL- | Client Sampl |
| ix: Water | Μ | | | | | | | | Date Collected: |
| | | | | | | | 6:45 | 12/05/19 10 | Date Received: |
| | | | Prepared | Batch | Dilution | | Batch | Batch | |
| | ab | Analyst | or Analyzed | Number | Factor | Run | Method | Туре | Prep Type |
| | AL BUF | RJF | 12/07/19 20:09 | 508640 | 1 | | 8260C | Analysis | Total/NA |
| 3694-12 | le ID: 480- | ab Sam | L | | | | P BLANK | e ID: TRII | Client Sampl |
| ix: Water | Μ | | | | | | | | Date Collected: |
| | | | | | | | 6:45 | 12/05/19 10 | Date Received: |
| | | | Prepared | Batch | Dilution | | Batch | Batch | |
| | ab | Analyst | or Analyzed | Number | Factor | Run | Method | Туре | Prep Type |
| | AL BUF | RJF | 12/07/19 20:33 | 508640 | 1 | | 8260C | Analysis | Total/NA |

Lab Chronicle

Laboratory References:

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

12/12/2019

Project/Site: Alumax & Roblin Periodic Review Reports Laboratory: Eurofins TestAmerica, Buffalo

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

| Authority | Prog | ram Identif | ication Number Expi | ration Date |
|-----------|------|-------------|---------------------|-------------|
| New York | NELA | P 10026 | 03-31 | -20 |

Client: LaBella Associates DPC

Job ID: 480-163694-1

Method Summary

Client: LaBella Associates DPC 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 Project/Site: Alumax & Roblin Periodic Review Reports

Job ID: 480-163694-1

| ab Sample ID | Client Sample ID | Matrix | Collected | Received | Ass |
|--------------|------------------|--------|----------------|----------------|-----|
| 30-163694-1 | MW-12 | Water | 12/05/19 09:20 | 12/05/19 16:45 | |
| 30-163694-2 | MW-09R | Water | 12/05/19 10:45 | 12/05/19 16:45 | |
| 30-163694-3 | FIELD DUPLICATE | Water | 12/05/19 09:20 | 12/05/19 16:45 | |
| 30-163694-4 | MW-07R | Water | 12/05/19 11:30 | 12/05/19 16:45 | |
| 30-163694-5 | MW-04 | Water | 12/05/19 12:05 | 12/05/19 16:45 | |
| 80-163694-6 | EX-MW12 | Water | 12/05/19 13:00 | 12/05/19 16:45 | |
| 80-163694-7 | MW-02R | Water | 12/05/19 13:40 | 12/05/19 16:45 | |
| 0-163694-8 | EX-MW-11R | Water | 12/05/19 14:20 | 12/05/19 16:45 | |
| 80-163694-9 | AL-2 | Water | 12/05/19 15:10 | 12/05/19 16:45 | |
| 30-163694-10 | AL-1 | Water | 12/05/19 15:45 | 12/05/19 16:45 | |
| 30-163694-11 | AL-7 | Water | 12/05/19 16:30 | 12/05/19 16:45 | |
| 30-163694-12 | TRIP BLANK | Water | 12/05/19 00:00 | 12/05/19 16:45 | |

| uffalo | |
|-----------|--------------|
| nerica, B | |
| TestAm | d Drive |
| Eurofins | 10 Hazelwood |

Chain of Custody Record

Curofins Environment Testing

| Client Information | Sampler: | Lab PM: Fischer, Brian J | Srian J | Carrier Tracking No(s): | COC No: 480-139004-28077.1 |
|---|-----------------------------------|---|---|--|---|
| lient contact Chris Kibler | Phone: 716-78-4 | OC E-Mail: brian.fisc | E-Mail: brian.fischer@testamericainc.com | - | Page: Page 1 of |
| company: _aBella Associates DPC | | - | Analysis | | HQ00 CT # 400 |
| kdress: 300 Pearl Street Suite 130 | Due Date Requested: JAC | day | | | |
| Sity: Buffalo | TAT Requested (days): | | | | - nexane - None - AsNaO2 |
| state, Zip: NY, 14202 | al-shape | annesk: | / | 700-163694 Chain of Custo | P - Na204S Q - Na2203 |
| Phone: 7)(L-7C8-4906 | Po #. Purchase Order Requested | (0 | | Apoien | T - TSP Dodecahydrate |
| Email: CKibler@labellapc.com | ,# OW | a company of the second second | (on | 12 | J - DI Water |
| Project Name: Former Roblin Steel & Alumax Ext Sites | Project #: 48015183 | CALL COLORISON | 10 58 | Ienist | K - EDIA L - EDA |
| Forner Robin + Alunex Ext Sith | Ssow#. | and the second second | The second second | 01 COT | Other: |
| | Sample | Matrix (w=water, S=solid, O=waste/oli, | 9170 - 701 W | admuN leso | |
| sample identification | Sampre Date Imme G-9 | - | 1 2 | | Special Instructions/Note: |
| MU-12 | 12-5-19 920 6 | Water | X | | |
| . APLUM | 12-5-PI 10-5 G | Water | × | | 0.0 |
| Field Rulicite. | 125-9 920 | G Water | × | | K VECKCAR |
| P | 12-5-19 1130 (| - Water | X | ~ | and school of |
| - FIC | 12-5-19 1205 (| Water | X | | Trip Blank |
| EX-MURY. | 12-5-9 300 | 5 Ucter | × | | RIVJUL WYS |
| MU-02R | 1340 1340 | 5 Water | × | | (2000) |
| EX-DU-11R. | 1420 | 6 Loter | × | | |
| AL-J. | V | itater | X | | ~ |
| 91-1 | 54 1545 (| 5 Loted | × | | 0 |
| , C-JA | 125-19/1630 (| 5 Water | × | | 0 |
| ant | Poison B Unknown | Radiological | Sample Disposal (A fee may | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Mon | tained longer than 1 month) Archive For Months |
| , III, IV, Other (specify) | ASP Cet B | 0 | Special Instructions/QC Requirements. | Also regues | (E00'S |
| linquished by: | | Tin | Time: | | |
| Relinquished by: | DateTime: 13 5-61 / 16 45 | Company | Received by: WWW W | OW CILLO PATRIME. 12 | CL Liedundo 9161/201 |
| Relinquisheeby: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Custody Seals Intact: Custody Seal No.: Δ Yes Δ No | | | Cooler Temperature(s) °C and Other Remarks: | er Remarks: 2,5 th | 31 4 |
| | | | | | Ver: 01/16/2019 |

Page 36 of 37

12/12/2019

Client: LaBella Associates DPC

Login Number: 163694 List Number: 1 Creator: Stopa, Erik S

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

List Source: Eurofins TestAmerica, Buffalo