
PERIODIC REVIEW REPORT

**1050-1088 NIAGARA STREET SITE
SITE No. C915277**

BUFFALO, NEW YORK

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Prepared for:

9271 Group, LLC

Prepared By:



PERIODIC REVIEW REPORT
1050-1088 Niagara Street Site C915277
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1.0 INTRODUCTION

Benchmark Civil/Environmental Engineering and Geology, PLLC (Benchmark), in association with TurnKey Environmental Restoration, LLC (TurnKey) has prepared this Periodic Review Report (PRR), on behalf of 9271 Group, LLC to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C915277, located in the City of Buffalo, Erie County, New York (Site; see Figures 1 and 2).

This PRR has been prepared for the 1050-1088 Niagara Street Site in accordance with NYSDEC DER-10 *Technical Guidance for Site Investigation and Remediation* (May 2010). The NYSDEC's Institutional and Engineering Controls (IC/EC) Certification Form and Change of Use Notification Form have been completed for the Site (see Appendix A).

This PRR and the associated inspection forms have been completed for the July 31, 2020 to July 31, 2021 reporting period.

1.1 Site Background

The Site consists of two (2) adjoining parcels, identified as 1050 and 1088 Niagara Street, totaling $2.7\pm$ acres, located in the City of Buffalo, Erie County, New York. The Site is currently improved with an existing building and parking lot located on the 1050 Niagara Street parcel; and building with a commercial drive thru and parking lot on the 1088 Niagara Street parcel and associated landscaped areas (see Figures 1 and 2).

The Site has a long history of being used for commercial and industrial operations since at least 1889. The International Brewing Company and American Gelatine Corp. operated on-Site in the early 1900s. The northern portion of the Site (1088 Niagara Street parcel) included a filling station from at least the 1920s through at least 1960. Gulf Oil Corporation and/or Hygrade Petroleum Co. were identified as on-Site operators from at least the 1920s through at least 1960. The Niagara Lithograph Company, a commercial printing company, was located on the 1050 Niagara Street parcel of the Site from at least 1930 through at least 1990; and Miken Companies, also a commercial printing company, was located on-Site until at least 2000.

1.2 Remedial History

After acceptance into the NYS BCP in October 2013, a Remedial Investigation/Interim Remedial Measures/Alternatives Analysis (RI/IRM/AA) Work Plan and supplemental work plans were prepared and submitted to the NYSDEC for review and approval. Interim Remedial Measures (IRM) activities were completed to address the removal of multiple abandoned USTs, appurtenant piping, and hydraulic lifts; excavation of petroleum, PCB, PAH, and metals impacted soils; groundwater management; and excavation backfilling. A Remedial Action Work Plan (RAWP) was prepared and approved by the NYSDEC detailing the soil vapor extraction (SVE) system, and site-wide cover system. The cleanup was successful in achieving the remedial objectives for the Site. The Site Management Plan (SMP) and Final Engineering Report (FER) were approved by the Department in December 2017. The NYSDEC issued a COC for the Site on December 29, 2017.

1.3 Recommendations

Based on the post-remedial monitoring and analytical results for the Site, the following recommendations are provided for the Site.

- Modification of groundwater sampling parameter list to NYSDEC Commissioners Policy-51 (CP-51) Volatile Organic Compounds (VOCs) plus Tentatively Identified Compounds (TICs) starting in 2022.
- Modification of annual certification and reporting to triennial (every three years).

1.4 Compliance

The Site is in compliance with the SMP. The completed IC/EC form is included in Appendix A and a Site photo log is included in Appendix B.

2.0 SITE OVERVIEW

Previous investigations identified environmental contamination on-Site that required remediation. 9271 Group, LLC entered into a Brownfield Cleanup Agreement (BCA) with the NYSDEC to remediate the Site. BCP investigations and remediation were completed between 2014 and 2017.

The remedial activities included:

- Excavation, cleaning, and removal of four (4) underground storage tanks (USTs) and appurtenant piping;
- Excavation and off-site disposal of non-hazardous soil/fill exceeding the Part 375 Restricted Residential Use Soil Cleanup Objectives (SCOs);
- Delineation, excavation and off-site disposal of hazardous PCB impacted soil/fill;
- Installation of a Soil Vapor Extraction (SVE) system to mitigate nuisance petroleum VOCs within the subsurface soil/fill and petroleum related VOCs and semi-volatile organic compounds (SVOCs) in groundwater;
- Construction and maintenance of a cover system consisting of the existing building, new building, asphalt and concrete pavement, sidewalks; and minimum 24-inches soil cover of approved clean material placed on top of demarcation layer, to prevent human exposure to remaining soil/fill exceeding RRSCOs.
- Placement of an environmental easement to (1) implement, maintain, and monitor Engineering Controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and (3) limit the use and development of the Site to Restricted Residential, Commercial, or Industrial uses only.

Remedial activities were completed in September 2017. The FER and SMP for the Site were approved by the Department in December 2017. The Certificate of Completion (COC) was issued for the Site on December 29, 2017.

3.0 REMEDY PERFORMANCE

Post-remedial inspections, groundwater monitoring, and operation and maintenance of the SVE system have been completed at the Site. SVE influent and effluent air sampling analytical results are summarized on Table 1 and SVE system inspection logs are provided in Appendix C. The Department approved the shutdown and removal of the SVE System in December 2020.

Groundwater sample analytical results are summarized on Table 2, with representative groundwater isopotential shown on Figures 4A and 4B for the associated sampling events. Groundwater monitoring and sampling logs are provided in Appendix D. Laboratory analytical data reports are provided electronically in Appendix E.

The cover system is maintained in general accordance with the approved SMP.

The completed IC/EC Certification form and site photographs are included in Appendix A and Appendix B, respectively.

4.0 SITE MANAGEMENT PLAN

The SMP was prepared for the Site and approved by the Department in December 2017. The SMP includes an Institutional and Engineering Control (IC/EC) Plan, Operation, Monitoring and Maintenance (OM&M) Plan, an Excavation Work Plan (EWP), and a copy of the Environmental Easements. A brief description of the components of the SMP is presented below.

4.1 Operation, Monitoring and Maintenance Plan

The OM&M Plan consists of three major components, including the Soil Vapor Extraction (SVE) system; the Long-Term Groundwater Monitoring (LTGWM) Plan; and the Annual Inspection & Certification Program.

4.1.1 SVE System

The SVE system was comprised of three (3) SVE wells, one (1) vacuum monitoring point (VMP), and the SVE remedial system in an enclosed trailer. SVE system emissions were controlled using two (2) vapor-phase granular active carbon (GAC) vessels.

Routine SVE system monitoring was completed during the reporting period, including field measurements of system influent and effluent air with photoionization detector (PID), vacuum readings on the SVE wells and VMP, and routine system maintenance.

Influent PID readings have decreased since start up to static low-levels and effluent air PID readings have consistently been 0.0 ppm. No condensate has been detected in the knockout tank.

Air sampling was completed in July 2020, with supplemental influent sampling being completed as part of the SVE shutdown procedure in November 2020. Laboratory results are provided on Table 1.

SVE System Operation

In December 2020, the Department approved the request for SVE system to be discontinued. The SVE System was operated during this reporting period from July to December 2020. SVE operation logs are provided in Appendix C.

The SVE mobile treatment trailer was removed from the Site in January 2021. Vapor phase GAC filters were transported by TurnKey (9A-874) for carbon regeneration at Carbon Activated in Blasdell, New York.

4.1.2 Long-Term Groundwater Monitoring Plan

Long-term groundwater monitoring (LTGWM) has been completed since issuance of COC in 2017. A total of seven (7) rounds of post-IRM groundwater samples have been collected to date. Two (2) sampling events were completed during this reporting period, in November 2020 and May 2021. Groundwater sampling logs are provided in Appendix D.

Groundwater analytical results are summarized on Table 2 and laboratory analytical data reports are provided in Appendix E.

It should be noted that MW-4 and MW-5R have been dry since completion of the cover system. Wells are checked during sampling events and will be sampled if recoverable volume is present during future sampling events.

Based on the post-IRM groundwater analytical results, it is recommended to modify the post-COC groundwater sampling constituent list to CP-51 VOCs plus TICs.

4.1.3 In-Situ Groundwater Treatment

As requested by the Department, supplemental groundwater treatment to address low-level residual petroleum-related VOCs was completed in June 2021, in accordance with the approved SMP In-Situ Groundwater Treatment Work Plan (November 2020).

Prior to the start of groundwater amendment, a USEPA Underground Injection Control permit was applied for and received. Copies were provided to the Department prior to initiation of field activities. As detailed in the approved Work Plan, approximately 240-lbs of RegenOx® Part A reagent was applied to each monitoring well MW-3 and MW-5R.

Documentation is provided in Appendix F and field activities are summarized in Table 3.

4.1.4 Annual Inspection and Certification Program

The Annual Inspection and Certification Program outlines the requirements for the Site, to certify and attest that the institutional controls and/or engineering controls employed at the Site are unchanged from the previous certification. The Annual Certification will

primarily consist of an annual Site Inspection to complete the NYSDEC's IC/EC Certification Form. The Site inspection will verify that the IC/ECs:

- Are in place and effective.
- Are performing as designed.
- That nothing has occurred that would impair the ability of the controls to protect the public health and environment.
- That nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for such controls.
- Access is available to the Site to evaluate continued maintenance of such controls.

Site inspections were completed throughout the reporting period. The property is being used in accordance with the Restricted Residential Use [mixed-use commercial (office and retail) and residential (apartments)], with surface parking, paved walkways, and landscaped areas. No observable indication of intrusive activities was noted during the Site inspection. No observable use of groundwater was noted during the reporting period. Minor bare spots were noted at the bottom of the embankment along the west side of the Site during routine Site inspections; however, vegetation has been established on the majority of the embankment and the embankment is stabilized.

A maintenance issue of surface rutting along the fast-food drive thru lane was identified. No underlying demarcation or soil-fill is exposed, rutting is limited to the subbase stone-fill in a vegetated buffer strip. Maintenance crew has been notified, and photo documentation will be provided to the Department after the area is repaired.

The completed Site Management Periodic Review Report Notice – Institutional and Engineering Controls Certification Form is included in Appendix A. A photolog of the most recent Site inspection is included in Appendix B.

4.2 Excavation Work Plan

An Excavation Work Plan (EWP) was included in the approved-SMP for the Site. The EWP provides guidelines for the management of soil and fill material during any future intrusive activities.

No intrusive activities requiring management of on-Site soil or fill material; or the placement of backfill materials occurred during the monitoring period.

4.3 Engineering and Institutional Control Requirements and Compliance

As detailed in the Environmental Easements, several IC/ECs need to be maintained as a requirement of the SMP for the Site.

4.3.1 Institutional Controls

- Groundwater-Use Restriction – the use of groundwater for potable and non-potable purposes is prohibited without water quality treatment as determined by the NYSDOH;
- Land-Use Restriction: The controlled property may be used for restricted residential, commercial and/or industrial use; and
- Implementation of the SMP.

4.3.2 Engineering Controls

- All engineering controls must be operated, maintained, and inspected as specified in the SMP;
- Soil Vapor Extraction – SVE System was operated and maintained from 2017 to 2020. The Department approved the shutdown and removal of the SVE system in December 2020.
- Cover System – The cover system, including buildings, concrete sidewalks, asphalt, and landscaped vegetated areas are being maintained in general compliance with the SMP.

At the time of the site inspection, the Site was compliant with the engineering and institutional control requirements.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions:

The Site was in general compliance with the SMP.

Recommendations:

- Modification of groundwater sampling parameter list to NYSDEC Commissioners Policy-51 (CP-51) Volatile Organic Compounds (VOCs) plus Tentatively Identified Compounds (TICs) starting in 2022.
- Modification of annual certification and reporting frequency to triennial (every three years).

6.0 DECLARATION/LIMITATION

Benchmark-TurnKey personnel conducted the annual site inspections for the 1050-1088 Niagara Street BCP Site No. C915277, located in Buffalo, New York, according to generally accepted practices. This report complied with the scope of work provided to 9271 Group, LLC by Benchmark TurnKey.

This report has been prepared for the exclusive use of 9271 Group, LLC. The contents of this report are limited to information available at the time of the site inspection. The findings herein may be relied upon only at the discretion of 9271 Group, LLC. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of Benchmark-TurnKey.

TABLES

TABLE 1

SUMMARY OF SVE AIR ANALYTICAL RESULTS

1050-1088 NIAGARA STREET SITE
BCP SITE NO. C915277
BUFFALO, NEW YORK

PARAMETERS ¹	Sample Location				
	SVE-1 INFLUENT			SVE-2 EFFLUENT	
	11/2/2017	7/9/2020	11/9/2020	11/2/2017	7/9/2020
1,2,4-TRIMETHYLBENZENE	ND	1.38	ND	2.9	1.95
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ND	ND	ND	1.47	ND
2,2,4-TRIMETHYLPENTANE (ISO-OCTANE)	227	1.25	ND	2.8	ND
ACETONE	1300	19.2	6.22	171	134
BENZENE	169	0.831	ND	0.674	1.56
CARBON DISULFIDE	ND	ND	ND	ND	1.55
CHLOROMETHANE	ND	1.07	0.921	0.869	2.48
CYCLOHEXANE	159	ND	ND	1.27	ND
DICHLORODIFLUOROMETHANE	ND	2.34	1.99	2.22	5.24
ETHANOL	ND	26.2	11.4	ND	99.1
ETHYLBENZENE	58.2	ND	ND	1.02	0.903
ISOPROPANOL	ND	1.57	ND	ND	3
M,P-XYLENES	226	2.25	ND	7.73	4
METHYL BUTYL KETONE (2-HEXANONE)	ND	ND	ND	ND	1.02
METHYL ETHYL KETONE (2-BUTANONE)	885	3.89	1.93	6.9	6.72
N-HEPTANE	394	ND	ND	2.03	1.2
N-HEXANE	1040	ND	ND	1.08	ND
O-XYLENE	71.7	ND	ND	4.01	1.18
STYRENE	ND	ND	ND	ND	0.996
TERT-BUTYL ALCOHOL	ND	3.94	ND	ND	40.3
TETRAHYDROFURAN	7370	2.28	ND	20.8	2.03
TOLUENE	558	2.32	ND	4.97	2.9
TRICHLOROETHYLENE (TCE)	ND	ND	ND	ND	4.66
TRICHLOROFLUOROMETHANE	ND	1.67	ND	3.2	12.6
TOTAL VOCs	12457.9	70.191	22.461	234.943	327.389

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect. Results are reported in ug/m³.

Definitions:

ND = Parameter not detected above laboratory detection limit.

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

1050-1088 NIAGARA STREET SITE
BCP Site No. C915277
BUFFALO, NEW YORK

Parameters ¹	Class GA GWQS ²	TMW-3										MW-3									
		11/19/14	2/12/15	5/1/17	11/15/17	5/12/18	4/6/19	11/2/19	7/2/20	11/7/20	5/23/21	2/12/15	5/8/17	11/15/17	5/12/18	4/6/19	11/2/19	7/2/20	11/7/20	5/23/21	
Volatile Organic Compounds (VOCs) - ug/L																					
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.83 J	ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100 D	ND	ND	ND	ND	ND	ND	ND	ND	
2-Butanone (MEK)	50	ND	1.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Hexanone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.6	ND	ND	ND	ND	ND	ND	ND	ND	
4-Isopropyltoluene	5	ND	0.62 J	ND	ND	ND	ND	ND	ND	ND	ND	54 D	ND	ND	ND	ND	ND	ND	ND	ND	
Acetone	50	ND	4.1 J	ND	ND	2.4 J	ND	3.8 J	5.8	1.5 J	2 J	21	ND	ND	ND	ND	ND	ND	27	ND	
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	67 D	7.9	10	31	39	28	32	36	31	
Carbon disulfide	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.37 J	ND	ND	ND	ND	ND	ND	ND	ND	
Cyclohexane	--	75	66	2.8 J	0.9 J	0.47 J	ND	ND	ND	ND	ND	1000 D	70	100	160	260	210	350 D	370 D	540	
Ethylbenzene	5	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	30 D	ND	ND	ND	1.7 J	2.2 J	2.8	3.6 J	ND	
Isopropylbenzene	5	91	87	9.8 J	1.3 J	1.4 J	0.72 J	ND	0.84 J	ND	ND	200 D	36	44	27	60	57	70	88	ND	
Methylcyclohexane	--	130	90	5.7 J	2.1 J	0.96 J	0.46 J	ND	ND	ND	ND	1200 D	170	210	210	230	160	210 D	320 D	380	
Methylene Chloride	5	2.6 J,B	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	ND	ND	
n-Butylbenzene	5	20	17	ND	ND	ND	ND	ND	ND	ND	ND	54 D	ND	ND	ND	ND	ND	ND	ND	ND	
n-Propylbenzene	5	ND	13 J	ND	ND	ND	ND	ND	ND	ND	ND	200 D	ND	ND	ND	ND	ND	ND	ND	ND	
sec-Butylbenzene	5	ND	21	ND	ND	ND	ND	ND	ND	ND	ND	50 D	ND	ND	ND	ND	ND	ND	ND	ND	
tert-butylbenzene	5	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	5	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	7.1	ND	ND	2.4 J	4.2 J	4 J	4.2	5.1	5.2 J	
Xylene, Total	5	ND	1.6 J	ND	ND	ND	ND	ND	ND	ND	ND	13 J, D	ND	2.1 J	3.6 J	6.2 J	8.8 J	9.6	11.9	11.2 J	
Total VOCs	--	418.6	393.22	31.3	4.3	5.23	1.18	3.8	6.64	1.5	2	3039.2	283.9	366.1	434	599.4	472.5	665	842.8	1059	
VOCs Tentatively Identified Compounds (TICs)- ug/L																					
3-Phenylbut-1-ene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	133 NJ	
Benzene, cyclopropyl-	--	--	160 NJ	ND	ND	ND	ND	ND	ND	ND	ND	29 NJ	ND	ND	ND	ND	ND	ND	ND	ND	
Benzene, 1-methyl-2-(1-methylethyl)-	--	--	140 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzene, 1-methyl-3-(1-methylethyl)-	--	--	200 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzene, 1,2,3-trimethyl-	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	50 NJ	ND	ND	ND	ND	ND	ND	ND	ND	
Benzene, 1,2,3,4-tetramethyl-	--	--	49 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Butane, 2-Methyl-	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	57.2 NJ	ND	ND	ND	116 NJ	
Cyclohexane	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	93.4 NJ	ND	ND	ND	154 NJ	
Cyclohexane, 1,4-dimethyl-	--	--	ND	ND	3.84 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cyclohexane, 1,1,3-trimethyl-	--	--	ND	ND	4.14 NJ	3.09 NJ	ND	ND	ND	ND	ND	ND	71.6 J	ND	ND	ND	ND	ND	ND	ND	
Cyclopentane, methyl-	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	83 NJ	ND	77.3 NJ	67.4 NJ	150 NJ	151 NJ	207 NJ	169 NJ	390 NJ	
Cyclopentane, 1,3-dimethyl-	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	89.2 NJ	ND	58.4 NJ	ND	ND	ND	
1,4-Pentadiene, 3,3-dimethyl-	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	26 NJ	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylidenecyclobutane	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	83.2 NJ	ND	
Isopropylcyclobutane	--	--	130 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cyclohexane, 1,3-dimethyl-, cis-	--	--	81 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cyclohexane, 4-methyl-	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	21 NJ	ND	ND	ND	ND	ND	ND	ND	ND	
Cyclohexane, ethyl-	--	--	54 NJ	16.6 NJ	ND	ND	ND	ND	ND	ND	ND	33 NJ	ND	ND	ND	ND	ND	ND	ND	ND	
Cyclobutane, (1-methylethylidene)-	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	30 NJ	ND	ND	ND	ND	ND	ND	ND	ND	
Cyclohexene, 1-methyl-	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	37 NJ	ND	ND	ND	ND	ND	ND	ND	ND	
Indan, 1-methyl-	--	--	68 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1H-Indene, 2,3-dihydro-2,2-dimethyl-	--	--	43 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Hexane	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	19 NJ	ND	ND	ND	ND	ND	ND	ND	ND	
1-Pentane	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	153 NJ	ND	ND	ND	ND	
Pentane, 2-methyl-	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	94.3 NJ	111 NJ	ND	ND	ND	ND	ND	
Pentane, 3-methyl-	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	65.4 NJ	ND	62.8 NJ	55.2 NJ	ND	ND	98.8 NJ	
Indane	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	124 J	ND	ND	ND	ND	ND	ND	ND	ND	
Pentane	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	47 NJ	55.1 NJ	80.5 NJ	ND	133 NJ	
Sulfur Dioxide	--	--	ND	ND	ND	ND	ND	1 NJ	ND	2 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Unknown Benzene	--	--	ND	43.9 J	ND	4.57 J	1.31 J	1.12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Unknown Aromatic(s)	--	--	ND	48.8 J	7.35 J	5.53 J	4.03 J	ND	1.07 J	ND	ND	ND	62.9 J	39.7 J	77.3 J	124.9 J	60 J	154.5	166.6 J	ND	
Unknown Cyclohexane	--	--	ND	21.2 J	ND	10.84 J	ND	4.91 J	ND	ND	ND	ND	164 J	141.6 J	159 J	90.7 J	68.5 J	106 J	121 J	140 J	
Unknown Cycloalkane(s)	--	--	ND	ND	7.75 J	8.17 J	1.1 J	ND	ND	ND	ND	ND	ND	180.1 J	238.1 J	174.4 J	71.9 J	158.2 J	141.2 J	143 J	
Unknown(s)	--	--	52 J	18.4 J	3.41 J	5.16 J	1.29 J	1.08 J	ND	ND	ND	45 J	508.8 J	98.4 J	164.1 J	ND	237.8 J	368.9	291.3	390.3 J	
Total TICs	--	--	977	149	37.3	26.5	12.6	2.08	2.19	ND	2.00	373	931	697	926	896	815	1075	972	1698	
Semivolatile Organic Compounds (SVOCs) - ug/L																					
2-Methylnaphthalene	--	44	--	--	--	ND	ND	0.07 J	0.06 J	0.08 J	ND	ND	--	--	--	0.04 J	0.06 J	0.1 J	0.07 J	0.13	
Acenaphthene	20	ND	--	--	--	ND	ND	0.03 J	ND	0.04 J	ND	ND	--	--	--	0.07 J	0.13	0.12	0.49	0.35	
Acenaphthylene	--	ND	--	--	--	ND	ND	0.03 J	0.03 J	0.04 J	0.02 J	ND	--	--	--	0.02 J	ND	ND	0.05 J	0.05 J	
Acetophenone	--	27	--	--	--	ND	ND	ND	ND	ND	ND	20 J	ND	ND	ND	ND	ND	ND	ND	ND	
Anthracene	50	0.7 J	--	--	--	0.02 J	ND	0.1 J	0.05 J	0.08 J	0.04 J	ND	--	--	--	0.05 J	0.06 J	0.06 J	0.05 J	0.11	
Benzaldehyde	--	ND	--	--	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	ND	ND	
Benzo(a)anthracene	0.002	0.46 J	--	--	--	ND	ND	0.46	0.2	0.15	0.09 J	ND	--	--	--	0.09 J	0.1 J	0.12	0.12	0.23	
Benzo(a)pyrene	ND	0.66 J	--	--	--	0.03 J	0.04 J	0.49	0.27	0.17	0.1	ND	--	--	--	0.08 J	0.07 J	0.08 J	0.09 J	0.18	
Benzo(b)fluoranthene	0.002	1.5 J	--	--	--	0.04 J	0.04 J	0.77	0.33	0.21	0.14	ND	--	--	--	0.13	0.08 J	0.13	0.23	0.24	
Benzo(ghi)perylene	--	0.87 J	--	--	--	0.02 J	0.03 J	0.48 J	0.31	0.23	0.1	ND	--	--	--	0.04 J	0.05 J	0.05 J	0.06 J	0.13	
Benzo(k)fluoranthene</																					

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
1050-1088 NIAGARA STREET SITE
BCP Site No. C915277
BUFFALO, NEW YORK

Parameters ¹	Class GA GWQS ²	MW-4			MW-5R	MW-6								
		2/12/15	5/8/17	11/15/2017 - 5/23/2021	11/15/2017 - 5/23/2021	11/9/14	11/15/17	5/12/18	4/6/19	11/2/19	7/2/20	11/7/20	5/23/21	
Volatile Organic Compounds (VOCs) - ug/L														
1,1 Dichloroethane	5	0.59 J	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	12 D	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	9.2 J, D	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	6.5 J	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	50	4.9 J	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	5	2.4	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	17	5.4	--	--	ND	ND	ND	ND	2.5 J	ND	ND	ND	ND
Benzene	1	370 D	66	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	60	1	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	--	240 D	33	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	6.2	0.75 J	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	120 D	9	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	--	ND	ND	--	--	ND	ND	ND	ND	0.53 J	ND	ND	ND	ND
Methylcyclohexane	--	240 D	14	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	5	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	23 D	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	130 D	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	25 D	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-butylbenzene	5	3	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	12 D	1.2 J	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene, Total	5	19 J, D	1 J	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	--	1263.79	130.35	--	--	--	--	--	--	3.03	ND	ND	ND	ND
VOCs Tentatively Identified Compounds (TICs)- ug/L														
Butane, 2-Methyl-	--	ND	2.22 NJ	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Benzene, cyclopropyl-	--	150 NJ	ND	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Benzene, 1-methyl-2-(1-methylethyl)-	--	120 NJ	ND	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Cyclohexane,1,1,3-trimethyl-	--	ND	2.46 NJ	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Cyclopentane	--	48 NJ	ND	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Cyclopentane, methyl-	--	81 NJ	14.9 NJ	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Cyclohexane,4-methyl-	--	ND	4.35 NJ	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Cyclohexane, ethyl-	--	56 NJ	ND	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Cyclobutane, (1-methylethylidene)-	--	39 NJ	ND	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Cyclohexene, 3-methyl-	--	66 NJ	ND	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Cyclohexene, 4-methyl-	--	47 NJ	ND	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Indan, 1-methyl-	--	194 NJ	ND	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Indane	--	ND	26 NJ	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Pentane	--	ND	1.79 NJ	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Unknown Benzene	--	ND	11.92 J	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Unknown Aromatic	--	ND	13.58 J	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Unknown Cycloalkane	--	ND	4.06 J	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Unknown	--	ND	17.01 J	--	--	--	--	1.41 J	ND	ND	ND	ND	ND	ND
Total TICs	--	801	98.3 J	--	--	--	--	1.41	ND	ND	ND	ND	ND	ND
Semi-volatile Organic Compounds (SVOCs) - ug/L														
2-Methylnaphthalene	--	0.94 J	--	--	--	ND	--	ND	ND	0.1 J	ND	0.03 J	ND	ND
Acetophenone	--	6	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde	--	ND	--	--	--	0.54 J, B	--	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002	ND	--	--	--	ND	--	ND	ND	ND	ND	ND	0.03 J	ND
Benzo(a)pyrene	ND	ND	--	--	--	ND	--	ND	ND	ND	ND	ND	0.02 J	ND
Benzo(b)fluoranthene	0.002	ND	--	--	--	ND	--	ND	ND	ND	ND	ND	0.02 J	ND
Benzo(ghi)perylene	--	ND	--	--	--	ND	--	ND	ND	ND	ND	ND	0.02 J	ND
Bis(2-ethylhexyl) phthalate	5	ND	--	--	--	4.5 J, B	--	6.4 B	ND	ND	ND	1.5 J	1.5 J	ND
Chrysene	0.002	ND	--	--	--	ND	--	ND	0.02 J	ND	ND	0.01 J	0.02 J	ND
Fluoranthene	50	ND	--	--	--	ND	--	ND	ND	ND	ND	ND	0.04 J	ND
Fluorene	50	0.7 J	--	--	--	ND	--	ND	0.03 J	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	ND	--	--	--	ND	--	ND	ND	ND	ND	ND	0.01 J	ND
Phenanthrene	50	0.63 J	--	--	--	ND	--	ND	0.07 J	ND	ND	ND	0.03 J	ND
Pyrene	50	ND	--	--	--	ND	--	ND	ND	ND	ND	ND	0.03 J	ND
Total SVOCs	--	8.27	--	--	--	--	--	6.4	0.12	0.1	ND	1.54	1.69 J	ND
SVOCs Tentatively Identified Compounds (TICs)- ug/L														
1h-Indene, 2,3-dihydro-5-methyl-	--	17 NJ	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Aldol Condensates	--	ND	--	--	--	--	--	31.7 J	226.5 J	10.7 J	ND	ND	ND	ND
Benzene, 1-ethyl-2,3-dimethyl-	--	52 NJ	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Benzene, (1-methylethyl)-	--	31 NJ	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Benzene, (1-methylpropyl)-	--	15 NJ	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Benzene, 1,2,4,5-tetramethyl-	--	38 NJ	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Benzene, 1,3-diethyl-	--	16 NJ	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Benzene, 1,4-diethyl-	--	23 NJ	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Benzene, propyl-	--	30 NJ	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Erucylamide	--	19 NJ, B	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Indane	--	80 NJ	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
n-Hexadecanoic acid	--	16 NJ, B	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
Unknown Alcohol	--	ND	--	--	--	--	--	ND	ND	ND	ND	2.14 J	ND	ND
Unknown Alkane	--	ND	--	--	--	--	--	ND	ND	ND	ND	11.27 J	ND	ND
Unknown Benzene	--	ND	--	--	--	--	--	ND	ND	ND	ND	3.27 J	ND	ND
Unknown Organic Acid	--	ND	--	--	--	--	--	ND	1.93 J	1.6 J	2.62 J	3.89 J	ND	ND
Unknown	--	318 J, B	--	--	--	--	--	ND	1.64 J	2.4 J	17.98 J	13.45 J	ND	ND
Total TICs	--	655	--	--	--	--	--	31.7	230	14.7	20.6	34.0	ND	ND

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detected.
2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards.
3. MW-5 was not sampled during May 2017 sampling due to damage to the well. MW-4 and MW-5R has have been routinely dry.

Qualifiers:
D = Dilution required due to high concentration of target analyte above the laboratory reporting limit.
ND = Parameter not detected above laboratory detection limit.
"--" = Sample not analyzed for parameter or no GWQS available for the parameter.
J = Estimated Value - Below calibration range
NJ = Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
B = Compound was found in the blank and sample.
BOLD = Result exceeds GWQS.

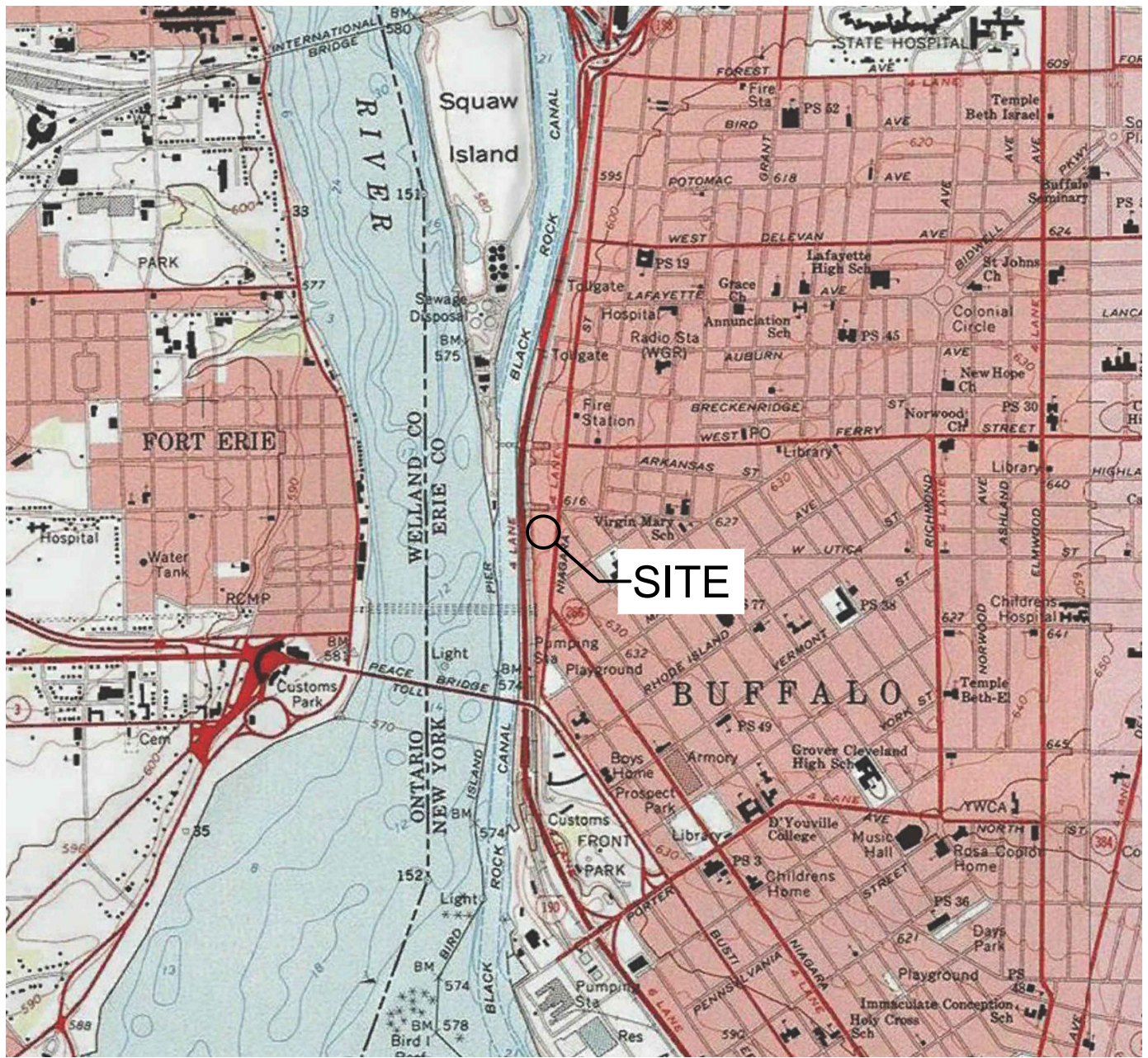
Table 3
Summary of In-Situ Groundwater Treatment Activities
1050-1088 Niagara Street
BCP Site No. C915277
Buffalo, New York

Date	Injection/Monitoring Location																			
	MW-3						SVE-1				MW-5R						SVE-3			
	Time	Total Well Depth	Water Level (FTOR)	Water Depth	Estimated Volume (Gal.)	Note	Time	Total Well Depth	Water Level (FTOR)	Water Depth	Time	Total Well Depth	Water Level (FTOR)	Water Depth	Estimated Volume (Gal.)	Note	Time	Total Well Depth	Water Level (FTOR)	Water Depth
6/2/2021	Initial	28.7	27.09	1.61			Initial	19.28	Dry		Initial	20.24	Dry	0			Initial	18.64	8.09	10.55
	10:35		26.5	2.2			10:46		Dry		7:59		15.1	5.14			8:04		8.11	10.53
			25.9	2.8			13:25		Dry				10	10.24			8:13		8.1	10.54
	10:40		2.15	26.55									13	7.24		1/2 open	8:21		8.11	10.53
	10:42		1.95	26.75							8:02		12.3	7.94						
	10:45		2.1	26.6									12.74	7.5						
	10:46		2.4	26.3							8:06		11.42	8.82						
	10:53		3.7	25							8:11		2.95	17.29						
	10:56		4.55	24.15									3.33	16.91						
	11:01		0.5	28.2		off					8:14		3.67	16.57						
	11:44		0.5	28.2							8:16		4.09	16.15						
	12:27		15.5	13.2		1/4 open					8:17		4.4	15.84						
	12:28		0.25	28.45		off							0.5	19.74		off				
	12:44		6.12	22.58		off					8:22		2.5	17.74						
	12:51		8.6	20.1		1/4 open					8:31		4.25	15.99						
	12:52		0.25	28.45							8:35		4.5	15.74						
	13:08		5.5	23.2		off					8:40		0.5	19.74		1/4 open				
	13:21		10	18.7		1/4 open					9:52		3.3	16.94		off				
	13:22		0.25	28.45							10:11		0	20.24						
	13:54		12.25	16.45		1/4 open					13:44		4.3	15.94						
	13:55		0.25	28.45							15:00		5.1	15.14	80					
	14:25		10.4	18.3		1/4 open														
	14:26		0.25	28.45																
	14:54		9.75	18.95		1/4 open														
	14:55		0.25	28.45																
	15:30		11	17.7																
6/3/2021	7:31		27.34	1.36		1/4 open	5 gallon test = 3 min 39 sec				8:43		13.6	6.64			10:00		8.08	10.56
	7:32		0.5	28.2							8:50		0.75	19.49	2	Added 2.09G				
	7:54		13.9	14.8		1/4 open					9:20		2.63	17.61						
	7:55		0	28.7							10:38		2.79	17.45						
	8:27		17.3	11.4		1/4 open					13:06		3.03	17.21						
	8:28		0	28.7							15:20		3.33	16.91	0.5	Added 0.54G to bring to 0.0'				
	8:51		8.5	20.2		1/4 open														
	8:52		0	28.7																
	9:22		14.61	14.09		1/4 open														
	9:23		0	28.7																
	9:43		9.74	18.96		1/4 open														
	9:44		0	28.7																
	10:33		14.57	14.13	75	1/4 open														
	10:34		0.25	28.45																
	12:43		23.81	4.89	4	Added 4G														
	12:52		10.7	18	3	Added 3G														
	12:58		0	28.7																
	15:00		23.73	4.97	7	Added 7G														
	15:13		0	28.7																
	15:26		2.45	26.25	2	Added 2G														
6/4/2021	8:53		27.31	1.39	8	Added 8G	9:02		Dry		9:03		1.3	18.94	0.25	Added 0.21G	9:04		7.97	10.67
	9:23		0	28.7																
	9:58		17.95	10.75	4	Added 4G														
	10:00		4.5	24.2	1	Added 1G														
	10:04		0	28.7	3	Added 3G														
	10:14		0	28.7	8	Added 8G														
6/5/2021	11:33		27.15	1.55	8	Added 8G	11:32		Dry		11:43		1.12	19.12		Did not add				
6/6/2021	10:59		27.2	1.5	8	Added 8G	10:57		Dry							NA				
6/7/2021	8:20		27.17	1.53	8	Added 8G	8:18		Dry		8:31		3.55	16.69	0.5	Filled to 0.0; Add 0.5G	8:30		7.89	10.75
	13:55		27.1	1.6	9	Add 8.5-9G														
6/8/2021	9:34		26.97	1.73	9	Add 8.5-9G														
	15:06		27.03	1.67	9	Add 8.5-9G														
6/9/2021	7:44		27.09	1.61	18	Add 18G (4.5G from tote 2)	7:45		Dry		7:47		15.4	4.84	9	Add 9G; taking liquid	7:46		7.82	10.82
	15:25		27.04	1.66	9	Add 9G					15:30		15.4	4.84	9					
6/10/2021	8:38		27.08	1.62	18	Add 18G	8:37		Dry		AM				36					
6/11/2021					20	Add 20G per Janus									26	Add 26G				
6/15/2021											AM				16					
6/16/2021							AM		Dry		AM				36		AM		7.93	10.71
											PM				32					
6/17/2021	AM PM				27						AM				32					
6/18/2021	AM				27		AM		Dry								AM		7.88	10.76
Totals					285										279.25					

FIGURES

FIGURE 1

F:\CADD\TurnKey\Ellcott Development\1050-1088 Niagara St\PRR\2021\Figure 1 - Site Location and Vicinity Map.dwg



SCALE: 1 INCH = 2000 FEET
SCALE IN FEET
(approximate)



SITE LOCATION AND VICINITY MAP

PERIODIC REVIEW REPORT

1050-1088 NIAGARA STREET SITE
BCP SITE NO. C915277
BUFFALO, NEW YORK

PREPARED FOR

9271 GROUP, LLC



IN
ASSOCIATION
WITH



2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

PROJECT NO.: 0136-013-005

DATE: SEPTEMBER 2021

DRAFTED BY: CMS

DISCLAIMER: PROPERTY OF BENCHMARK CIVIL/ENVIRONMENTAL ENGINEERING & GEOLOGY, PLLC. & TURNKEY ENVIRONMENTAL RESTORATION, LLC **IMPORTANT:** THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK CIVIL/ENVIRONMENTAL ENGINEERING & GEOLOGY, PLLC & TURNKEY ENVIRONMENTAL RESTORATION, LLC.

LEGEND:

BCP SITE BOUNDARY

PARCEL BOUNDARY

NOTE:

-

PARCEL INFORMATION PER SURVEY BY KHEOPS ARCHITECTURE, ENGINEERING & SURVEY, DPC REVISED MAY 16, 2017.

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ERIE COUNTY REAL ESTATE ONLY REVISES TAX MAPS AND ISSUES S.B.L. NUMBERS BI-ANNUALLY, AND AT THE TIME OF THIS REPORT, THE NEWLY RECONFIGURED PARCELS HAVE NOT BEEN UPDATED BY ERIE COUNTY. WHEN ERIE COUNTY UPDATES THE DATABASE, A COPY OF THE PARCEL REPORTS WILL BE PROVIDED TO THE DEPARTMENT.

-

AERIAL IMAGE PROVIDED BY GOOGLE EARTH DATED SEPTEMBER 2018.

50'

0'

50'

100'

SCALE: 1 INCH = 50 FEET

SCALE IN FEET

(approximate)

N



TurnKey

ENVIRONMENTAL
RESTORATION, LLC

IN
ASSOCIATION
WITH

Benchmark

2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218,
(716) 856-0599

JOB NO.: 0136-013-005

SITE PLAN (AERIAL)

PERIODIC REVIEW REPORT
1050-1088 NIAGARA STREET
BCP SITE NO. C915277
BUFFALO, NEW YORK
PREPARED FOR
9271 GROUP, LLC

FIGURE 2

DISCLAIMER: PROPERTY OF BENCHMARK CIVIL/ENVIRONMENTAL ENGINEERING & GEOLOGY, PLLC. & TURNKEY ENVIRONMENTAL RESTORATION, LLC IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK CIVIL/ENVIRONMENTAL ENGINEERING & GEOLOGY, PLLC & TURNKEY ENVIRONMENTAL RESTORATION, LLC.



COVER SYETM LAYOUT	  PERIODIC REVIEW REPORT 1050-1088 NIAGARA STREET BCP SITE NO. C915277 BUFFALO, NEW YORK PREPARED FOR 9271 GROUP, LLC
FIGURE 3	2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599 JOB NO.: 0136-013-005 DISCLAIMER: PROPERTY OF BENCHMARK CIVIL/ENVIRONMENTAL ENGINEERING & GEOLOGY, PLLC. & TURNKEY ENVIRONMENTAL RESTORATION, LLC IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK CIVIL/ENVIRONMENTAL ENGINEERING & GEOLOGY, PLLC & TURNKEY ENVIRONMENTAL RESTORATION, LLC.

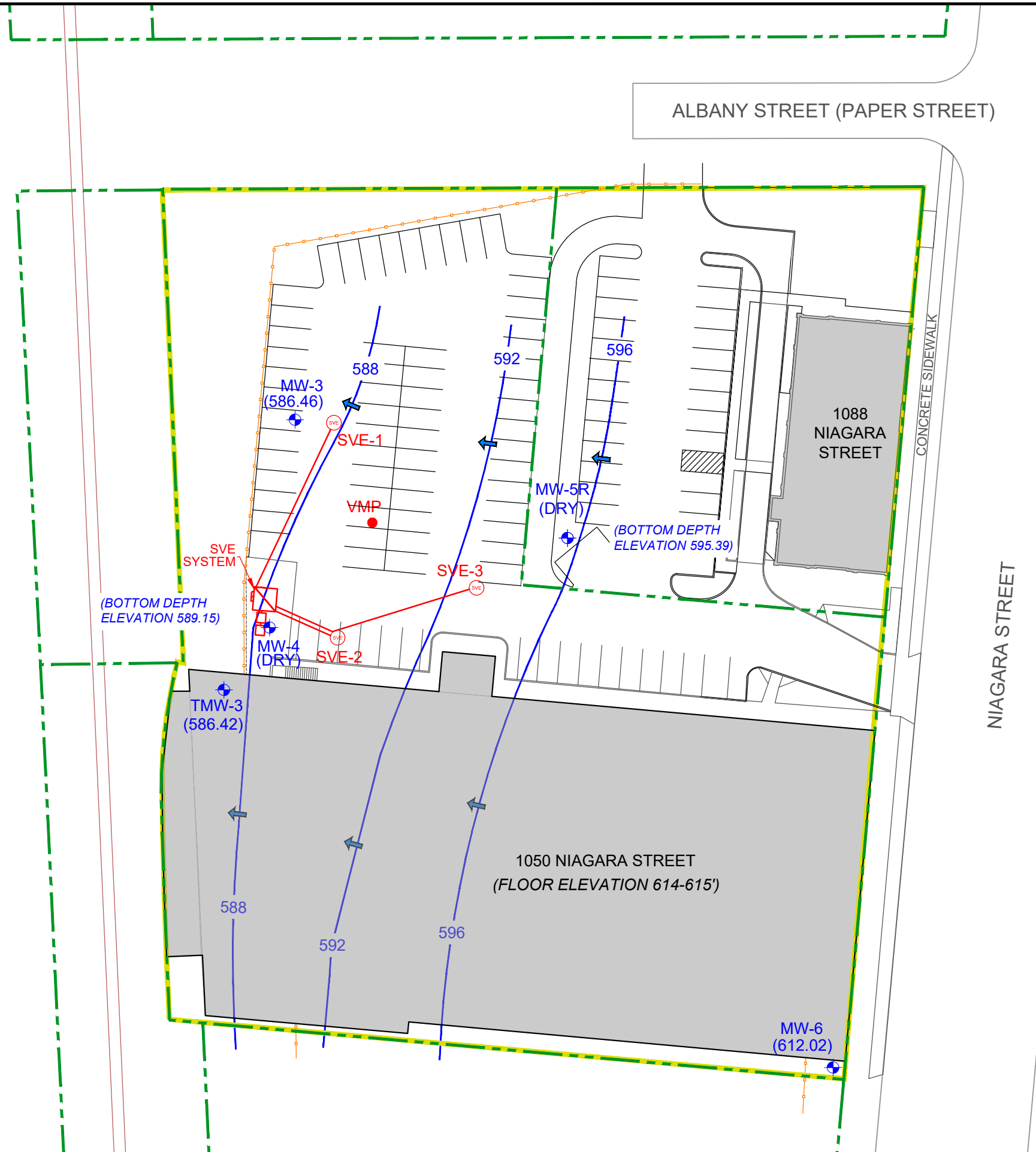
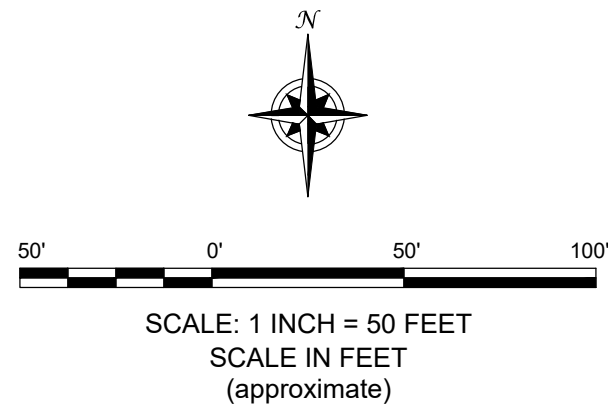
F:\CAD\TurnKey\Ellcott Development\1050-1088 Niagara St\PRR-2021\Figure 4E Groundwater Network and Isopotential_November 2020.dwg, 10/4/2021 10:36:44 AM

DATE: SEPTEMBER 2021
DRAFTED BY: CMS

LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- FENCE
- RAILROAD
- BUILDINGS ONSITE
- MW-1 MONITORING WELL
- SVE-3 SOIL VAPOR EXTRACTION WELL
- VMP VACUUM MONITORING POINT
- 596 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER ELEVATION CONTOUR

NOTE: ELEVATIONS PER FIELD DATA TAKEN NOVEMBER 7, 2020



GROUNDWATER NETWORK AND ISOPOTENTIAL
(NOVEMBER 2020)

PERIODIC REVIEW REPORT
1050-1088 NIAGARA STREET SITE
BCP SITE NO. C915277
BUFFALO, NEW YORK
PREPARED FOR
9271 GROUP, LLC



2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218,
(716) 856-0599

JOB NO.: 0136-013-005

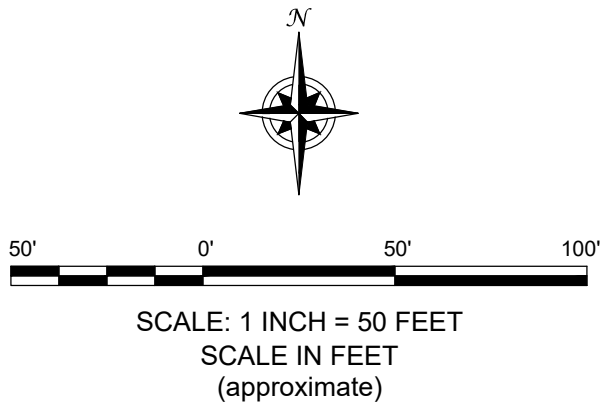
FIGURE 4A

DISCLAIMER: PROPERTY OF BENCHMARK CIVIL/ENVIRONMENTAL ENGINEERING & GEOLOGY, PLLC. & TURNKEY ENVIRONMENTAL RESTORATION, LLC IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK CIVIL/ENVIRONMENTAL ENGINEERING & GEOLOGY, PLLC & TURNKEY ENVIRONMENTAL RESTORATION, LLC.

LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- FENCE
- RAILROAD
- BUILDINGS ONSITE
- MW-1 MONITORING WELL
- SVE-3 SOIL VAPOR EXTRACTION WELL
- VMP VACUUM MONITORING POINT
- 596 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER ELEVATION CONTOUR

NOTE: ELEVATIONS PER FIELD DATA TAKEN MAY 23, 2021



GROUNDWATER NETWORK AND ISOPOTENTIAL
(MAY 2021)

PERIODIC REVIEW REPORT
1050-1088 NIAGARA STREET SITE
BCP SITE NO. C915277
BUFFALO, NEW YORK
PREPARED FOR
9271 GROUP, LLC



2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218,
(716) 856-0599
JOB NO.: 0136-013-005

FIGURE 4B

DISCLAIMER: PROPERTY OF BENCHMARK CIVIL/ENVIRONMENTAL ENGINEERING & GEOLOGY, PLLC. & TURNKEY ENVIRONMENTAL RESTORATION, LLC IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK CIVIL/ENVIRONMENTAL ENGINEERING & GEOLOGY, PLLC & TURNKEY ENVIRONMENTAL RESTORATION, LLC.

APPENDIX A

NYSDEC CERTIFICATION AND NOTIFICATION FORMS



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



Site Details

Box 1

Site No. **C915277**

Site Name 1050-1088 Niagara Street Site

Site Address: 1050-1088 Niagara Street Zip Code: 14213

City/Town: Buffalo

County: Erie

Site Acreage: 2.700

Reporting Period: July 31, 2020 to July 31, 2021

YES NO

1. Is the information above correct?

☒☐

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?

☐☒

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?

☐☒

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?

☒☐

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?

☐☒

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?

Restricted-Residential, Commercial, and Industrial

☒☐

7. Are all ICs in place and functioning as designed?

☒☐

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

Box 2A

YES NO

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?

☐ ☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid?
(The Qualitative Exposure Assessment must be certified every five years)

☒ ☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C915277**Box 3****Description of Institutional Controls**ParcelOwnerInstitutional Control**99.41-1-15.1**

9271 Group, LLC

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Building Use Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

- Prohibition against well installation (or use of gw without treatment)
- Compliance with the Site Management Plan
- Compliance with the Soils Management Plan
- Annual monitoring of groundwater
- Highest land use is restricted to restricted residential

99.41-1-15.21

9271 Group, LLC

Building Use Restriction
Monitoring Plan

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Site Management Plan
IC/EC Plan

- Prohibition against well installation (or use of gw without treatment)
- Compliance with the Site Management Plan
- Compliance with the Soils Management Plan
- Annual monitoring of groundwater
- Highest land use is restricted to restricted residential

Box 4**Description of Engineering Controls**ParcelEngineering Control**99.41-1-15.1**

Cover System
Air Sparging/Soil Vapor Extraction
Monitoring Wells

Dec 2020 - NYSDEC approved
SVE system shutdown and
removed from the Site

- Cover consisting of hardscape or clean soil
- In-situ plume reduction measure

Parcel

99.41-1-15.21

Engineering Control

Monitoring Wells
Cover System

- Cover consisting of hardscape or clean soil
- In-situ plume reduction measure

Box 5

Periodic Review Report (PRR) Certification Statements

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

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO



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

- (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO



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

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

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C915277

Box 6

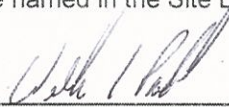
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I William Paladino at 9271 Group, LLC - 295 Main Street Suite 700 Buffalo New York
print name print business address

am certifying as Authorized Member (Owner or Remedial Party)

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


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

10/6/21
Date

EC CERTIFICATIONS

1050-1088 Niagara Street Site C915277

Box 7

Professional Engineer Signature

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

I Thomas Forbes, P.E. at 2558 Hamburg Turnpike, Buffalo New York
print name print business address

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

Thomas Forbes
Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification



10-7-21
Date

APPENDIX B

SITE PHOTO LOG

SITE PHOTOGRAPHS

Photo 1:



Photo 2:



Photo 3:



Photo 4:



- Photo 1: View of the existing asphalt parking area/cover system and vegetated cover along the northern portion of the Site – facing east
- Photo 2: View of the existing asphalt parking area/cover system – facing south
- Photo 3: View of typical vegetated cover within the northeastern portion of the Site – facing southeast
- Photo 4: View of the drive-thru area and vegetated cover system – facing north

1050-1088 Niagara Street Site
BCP Site No. C915277

Photo Date: May 23 and June 2, 2021



SITE PHOTOGRAPHS

Photo 5:



Photo 6:



Photo 7:



Photo 8:



Photo 5: View of landscaping within the parking area – facing east

Photo 6: View of landscaping at Site entrance – facing east

Photo 7: View of the stabilized bank along the western portion of the Site – facing northeast

Photo 8: View of the stabilized bank along the western portion of the Site – facing southeast

1050-1088 Niagara Street Site
BCP Site No. C915277

Photo Date: May 23 and June 2, 2021



SITE PHOTOGRAPHS

Photo 9:



Photo 10:



Photo 11:



Photo 12:



Photo 9: View of the operating SVE system – facing south

Photo 10: View of the former location of the SVE trailer with stone cover – facing west

Photo 11: View of the former location of the SVE trailer with stone cover – facing southwest

Photo 12: View of stabilized bank and stone cover south of the existing 1050 Niagara Street building – facing east

1050-1088 Niagara Street Site
BCP Site No. C915277

Photo Date: May 23 and June 2, 2021



SITE PHOTOGRAPHS

Photo 13:



Photo 14:



Photo 13: View of injection activities at MW-3 – facing northwest

Photo 14: View of injection activities at MW-3

1050-1088 Niagara Street Site
BCP Site No. C915277

Photo Date: May 23 and June 2, 2021



APPENDIX C

SVE SYSTEM LOGS

[illegible]

APPENDIX D

GROUNDWATER MONITORING SAMPLING LOGS

GROUNDWATER FIELD FORM

Project Name: 1050-1088 NIKALAI ST SITE

Date: 5/23/21

Location:

Project No.: T0136-013-005 Field Team: CS

Well No. MW-6			Diameter (inches): 2"			Sample Date / Time: 5/23/21			
Product Depth (ftTOR):			Water Column (ft): 6.83			DTW when sampled:			
DTW (static) (ftTOR): 10.06			One Well Volume (gal): 1.11			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (ftTOR): 16.89			Total Volume Purged (gal): 3.34			Purge Method: BAILED			
Time	Water Level (ftTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
918	0 Initial	-	8.40	14.6	1356	71000	4.98	100	Brown Turbid
920	1 12.91	1.25	7.97	14.3	1391	71000	4.80	117	No odor
923	2 14.01	2.50	7.70	14.6	1433	71000	4.82	130	
927	3 15.11	3.75	7.58	14.7	1448	71000	4.36	137	
4									
5									
6									
7									
8									
9									
10									
Sample Information:									
930	S1 14.26	4.00	7.52	14.5	1463	71000	4.86	143	
942	S2 13.22	4.25	7.50	15.2	1465	71000	4.43	147	

Well No. TMW-3			Diameter (inches): 1"			Sample Date / Time: 5/23/21 1113			
Product Depth (ftTOR):			Water Column (ft): 3.12			DTW when sampled: 14.85			
DTW (static) (ftTOR): 11.96			One Well Volume (gal): 0.13			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (ftTOR): 15.08			Total Volume Purged (gal): 0.38			Purge Method: BAILED			
Time	Water Level (ftTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
956	0 Initial	-	-	-	-	-	-	-	AS ABOVE
1015	1 12.14	0.215	6.98	16.5	5690	71000	3.25	183	
1031	2 12.14	0.430	7.11	16.8	5935	71000	4.11	185	
1047	3 12.14	0.645	7.18	16.9	5848	>1000	3.98	186	
4									
5									
6									
7									
8									
9									
10									
Sample Information:									
1113	S1 14.85	0.845	7.20	16.9	5782	71000	5.11	175	
1120	S2 14.91	0.975	-	16.8	5818	>1000	4.75	180	

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation	
Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria	
Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

GROUNDWATER FIELD FORM

Project Name: 1050-1088 NIAGARA ST SITE

Date: 5/23/21

Location: A

Project No.: 70136-013-005 Field Team: C8

Well No. MW-3			Diameter (inches): 2"			Sample Date / Time: 5/23/21 1155			
Product Depth (fbTOR):			Water Column (ft): 1.74			DTW when sampled:			
DTW (static) (fbTOR): 27.04			One Well Volume (gal): 0.28			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 28.78			Total Volume Purged (gal): 0.85			Purge Method: BAILED			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1120	0 Initial	-	7.70	15.1	1949	-	0.96	128	CLEAR,
1123	1 27.72	0.30	7.11	14.3	1740	71000	1.04	61	PETROL odor
1126	2 27.76	0.0075	7.02	14.9	1918	71000	0.91	13	
1129	3 27.81	1.00	6.99	15.2	1751	71000	0.84	4	
4									
5									
6									
7									
8									
9									
10									
Sample Information:									
1132	S1 27.83	1.25	6.95	14.8	2011	71000	0.75	11	
1140	S2 27.73	1.50	6.93	15.2	1990	71000	0.91	30	

Well No.			Diameter (inches):			Sample Date / Time:			
Product Depth (fbTOR):			Water Column (ft):			DTW when sampled:			
DTW (static) (fbTOR):			One Well Volume (gal):			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR):			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0	Initial								
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
Sample Information:									
	S1								
	S2								

REMARKS: PETROL ODORS APPEAR TO HAVE INCREASED SINCE SVE SHUTDOWN

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Note: All water level measurements are in feet, distance from top of riser.

PREPARED BY: C8



EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: 1050 NIAGARA

Project No.: T0136-013-005

Client: EMI CORP

Date: 5/23/21

Instrument Source: ☒ BM ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
☒ pH meter	units	859	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☐ 6212375 ☐ 6243003 ☐ 6223973 ☒	CS	4.00 7.00 10.01	4.00 7.02 10.01	
☒ Turbidity meter	NTU	905	Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) ☐ 13120C030432 (Q) ☐ 17110C062619 (Q) ☒	CS	10 NTU verification <0.4 20 100 800	10.2	
☒ Sp. Cond. meter	uS mS	901	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☐ 6212375 ☐ 6243003 ☐ 6223973 ☒	CS	7000 mS @ 25 °C	7002	
☐ PID	ppm		MinRAE 2000			open air zero _____ ppm Iso. Gas		MIBK response factor = 1.0
☒ Dissolved Oxygen	ppm	858	HACH Model HQ30d	080700023281 ☐ 100500041867 ☐ 140200100319 ☐	CS	100% Saturation	100% 93.4 slope	
☐ Particulate meter	mg/m ³					zero air		
☐ Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: CS

DATE: 5/23/21



GROUNDWATER FIELD FORM

Project Name: 1050-1088 NIAARA ST SITE

Date: 11/7/20

Location: 11

Project No.: 10136-013-005

Field Team: CS

Well No. TMW-3			Diameter (inches): <u>1"</u>			Sample Date / Time: <u>1000 11/7/20</u>			
Product Depth (ftTOR):			Water Column (ft): <u>3.16</u>			DTW when sampled:			
DTW (static) (ftTOR): <u>11.89</u>			One Well Volume (gal): <u>0.13</u>			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (ftTOR): <u>15.05</u>			Total Volume Purged (gal): <u>0.39</u>			Purge Method: <u>BALZER</u>			
Time	Water Level (ftTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
940	0 Initial	—	7.61	16.0	1962	677	1.25	46	SLIGHTLY TURBID
945	1 14.35	0.15	7.57	17.5	2001	>1000	1.73	4	FAINT ODOR
950	2 DRY	0.30	7.53	17.1	1983	>1000	2.01	2	
955	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1000	S1 DRY	0.40	7.67	16.5	1993	>1000	1.33	-10	
1005	S2 DRY	0.50	7.62	16.5	2002	>1000	1.51	-12	

Well No. MW-6			Diameter (inches): <u>2"</u>			Sample Date / Time: <u>11/7/20 1300</u>			
Product Depth (ftTOR):			Water Column (ft): <u>6.92</u>			DTW when sampled:			
DTW (static) (ftTOR): <u>7.99</u>			One Well Volume (gal): <u>1.13</u>			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (ftTOR): <u>16.71</u>			Total Volume Purged (gal): <u>3.38</u>			Purge Method: <u>BALZER</u>			
Time	Water Level (ftTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1240	0 Initial	—	7.50	13.0	1422	>1000	5.01	-35	TURBID
1245	1 12.74	1.20	7.44	13.3	1399		4.75	-50	NO ODOR
1250	2 13.33	2.40	7.51	13.3	1414		4.33	-47	
1255	3 14.02	3.60	7.50	13.1	1407		5.11	-33	
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1300	S1	3.65	7.49	14.1	1409		4.79	-51	
1305	S2	3.70	7.53	13.7	1421		4.88	-53	

REMARKS:

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV



GROUNDWATER FIELD FORM

Project Name: 1050-1088 NIAGARA ST SITE

Date: 11/7/20

Location: 1

Project No.: T0136-013-005

Field Team: CS

Well No.			Diameter (inches): 2"			Sample Date / Time: 11/7/20 1100			
Product Depth (fbTOR):			Water Column (ft): 1.81			DTW when sampled: 27:55			
DTW (static) (fbTOR): 26.98			One Well Volume (gal): 0.30			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 28.79			Total Volume Purged (gal): 0.89			Purge Method: BAILEY			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	0 Initial								
	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

Well No. MW-3			Diameter (inches): 2"			Sample Date / Time:			
Product Depth (fbTOR):			Water Column (ft):			DTW when sampled:			
DTW (static) (fbTOR):			One Well Volume (gal):			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR):			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1040	0 Initial	-	7.14	15.7	1774	24.5	1.49	10	CLEAR, SOME
1045	1 27.46	0.30	6.83	14.9	1741	273	1.24	0	PARTICULATE,
1050	2 27.52	0.60	6.82	14.8	1747	489	1.52	-34	FAINT ODOR
1055	3 27.54	0.90	6.83	14.7	1758	641	1.59	-50	SIGHT SHEN
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1100	S1 27.55	0.92	6.84	14.7	1767	562	1.24	-58	AS ABOVE
1105	S2 27.55	0.94	6.85	15.1	1780	7100	2.28	-65	CLOUDY

REMARKS:

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV



EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: _____

Project No.: _____

Client: _____

Date: _____

Instrument Source: ☐ BM ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
☐ pH meter	units	900	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☐ 6212375 ☐ 6243003 ☒ 6223973 ☐	CS	4.00 7.00 10.01	4.00 7.00 10.01	
☐ Turbidity meter	NTU	905	Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) ☐ 13120C030432 (Q) ☐ 17110C062619 (Q) ☒		10 NTU verification <0.4 20 100 800	10.4 	PASSED @ 10 NTU
☐ Sp. Cond. meter	uS mS	900	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☐ 6212375 ☐ 6243003 ☒ 6223973 ☐	CS	7000 mS @ 25 °C	7001	
☐ PID	ppm		MinRAE 2000			open air zero _____ ppm Iso. Gas		MIBK response factor = 1.0
☐ Dissolved Oxygen	ppm	910	HACH Model HQ30d	080700023281 ☐ 100500041867 ☐ 140200100319 ☐	CS	100% Saturation	100% 99.8% SLOPE	
☐ Particulate meter	mg/m ³					zero air		
☐ Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: _____

DATE: _____

APPENDIX E

LABORATORY ANALYTICAL DATA REPORTS



ANALYTICAL REPORT

Lab Number:	L2049358
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Nate Munley
Phone:	(716) 225-3314
Project Name:	1050-1088 NIAGARA ST.
Project Number:	T0136-013-005
Report Date:	11/16/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005

Lab Number: L2049358
Report Date: 11/16/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2049358-01	SVE-1 INFLUENT	SOIL_VAPOR	1050-1088 NIAGARA ST.	11/07/20 12:34	11/09/20

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005

Lab Number: L2049358
Report Date: 11/16/20

Case Narrative

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

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

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

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

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

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

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005

Lab Number: L2049358
Report Date: 11/16/20

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on October 29, 2020. The canister certification results are provided as an addendum.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 11/16/20

AIR

Project Name: 1050-1088 NIAGARA ST.**Project Number:** T0136-013-005**Lab Number:** L2049358**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049358-01
 Client ID: SVE-1 INFLUENT
 Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 11/07/20 12:34
 Date Received: 11/09/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 11/14/20 22:45
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.402	0.200	--	1.99	0.989	--		1
Chloromethane	0.446	0.200	--	0.921	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	6.04	5.00	--	11.4	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.62	1.00	--	6.22	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.653	0.500	--	1.93	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2049358**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049358-01

Date Collected: 11/07/20 12:34

Client ID: SVE-1 INFLUENT

Date Received: 11/09/20

Sample Location: 1050-1088 NIAGARA ST.

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2049358**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS****Lab ID:** L2049358-01**Date Collected:** 11/07/20 12:34**Client ID:** SVE-1 INFLUENT**Date Received:** 11/09/20**Sample Location:** 1050-1088 NIAGARA ST.**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
unknown siloxane	1.6	J	ppbV		1
Methyl Alcohol	1.6	NJ	ppbV		1
Cyclotrisiloxane, Hexamethyl-	1.4	NJ	ppbV		1
Acetaldehyde	1.2	NJ	ppbV		1
Unknown	1.5	J	ppbV		1



Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2049358**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049358-01

Date Collected: 11/07/20 12:34

Client ID: SVE-1 INFLUENT

Date Received: 11/09/20

Sample Location: 1050-1088 NIAGARA ST.

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Tentatively Identified Compounds	Results	Qualifier	Units	RDL	Dilution Factor

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	95		60-140

Project Name: 1050-1088 NIAGARA ST.

Lab Number: L2049358

Project Number: T0136-013-005

Report Date: 11/16/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 11/14/20 14:47

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1434455-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2049358**Project Number:** T0136-013-005**Report Date:** 11/16/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 11/14/20 14:47

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1434455-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: 1050-1088 NIAGARA ST.

Lab Number: L2049358

Project Number: T0136-013-005

Report Date: 11/16/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 11/14/20 14:47

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1434455-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.

Project Number: T0136-013-005

Lab Number: L2049358

Report Date: 11/16/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1434455-3								
Dichlorodifluoromethane	92		-		70-130	-		
Chloromethane	90		-		70-130	-		
Freon-114	95		-		70-130	-		
Vinyl chloride	94		-		70-130	-		
1,3-Butadiene	98		-		70-130	-		
Bromomethane	97		-		70-130	-		
Chloroethane	94		-		70-130	-		
Ethanol	86		-		40-160	-		
Vinyl bromide	92		-		70-130	-		
Acetone	88		-		40-160	-		
Trichlorofluoromethane	96		-		70-130	-		
Isopropanol	86		-		40-160	-		
1,1-Dichloroethene	98		-		70-130	-		
Tertiary butyl Alcohol	95		-		70-130	-		
Methylene chloride	97		-		70-130	-		
3-Chloropropene	103		-		70-130	-		
Carbon disulfide	92		-		70-130	-		
Freon-113	99		-		70-130	-		
trans-1,2-Dichloroethene	92		-		70-130	-		
1,1-Dichloroethane	100		-		70-130	-		
Methyl tert butyl ether	102		-		70-130	-		
2-Butanone	98		-		70-130	-		
cis-1,2-Dichloroethene	104		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.

Project Number: T0136-013-005

Lab Number: L2049358

Report Date: 11/16/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1434455-3								
Ethyl Acetate	101		-		70-130	-		
Chloroform	102		-		70-130	-		
Tetrahydrofuran	97		-		70-130	-		
1,2-Dichloroethane	100		-		70-130	-		
n-Hexane	102		-		70-130	-		
1,1,1-Trichloroethane	100		-		70-130	-		
Benzene	98		-		70-130	-		
Carbon tetrachloride	104		-		70-130	-		
Cyclohexane	104		-		70-130	-		
1,2-Dichloropropane	98		-		70-130	-		
Bromodichloromethane	102		-		70-130	-		
1,4-Dioxane	106		-		70-130	-		
Trichloroethene	102		-		70-130	-		
2,2,4-Trimethylpentane	103		-		70-130	-		
Heptane	99		-		70-130	-		
cis-1,3-Dichloropropene	106		-		70-130	-		
4-Methyl-2-pentanone	100		-		70-130	-		
trans-1,3-Dichloropropene	93		-		70-130	-		
1,1,2-Trichloroethane	101		-		70-130	-		
Toluene	98		-		70-130	-		
2-Hexanone	103		-		70-130	-		
Dibromochloromethane	104		-		70-130	-		
1,2-Dibromoethane	100		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.

Project Number: T0136-013-005

Lab Number: L2049358

Report Date: 11/16/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1434455-3								
Tetrachloroethene	100		-		70-130	-		
Chlorobenzene	100		-		70-130	-		
Ethylbenzene	103		-		70-130	-		
p/m-Xylene	102		-		70-130	-		
Bromoform	108		-		70-130	-		
Styrene	103		-		70-130	-		
1,1,2,2-Tetrachloroethane	104		-		70-130	-		
o-Xylene	105		-		70-130	-		
4-Ethyltoluene	97		-		70-130	-		
1,3,5-Trimethylbenzene	80		-		70-130	-		
1,2,4-Trimethylbenzene	99		-		70-130	-		
Benzyl chloride	97		-		70-130	-		
1,3-Dichlorobenzene	99		-		70-130	-		
1,4-Dichlorobenzene	99		-		70-130	-		
1,2-Dichlorobenzene	97		-		70-130	-		
1,2,4-Trichlorobenzene	98		-		70-130	-		
Hexachlorobutadiene	102		-		70-130	-		

Project Name: 1050-1088 NIAGARA ST.

Project Number: T0136-013-005

Serial_No: 11162016:12
Lab Number: L2049358

Report Date: 11/16/20

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2049358-01	SVE-1 INFLUENT	01828	Flow 2	10/29/20	334319		-	-	-	Pass	72	71	1
L2049358-01	SVE-1 INFLUENT	1727	2.7L Can	10/29/20	334319	L2042167-01	Pass	-29.8	-4.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2042167
Report Date: 11/16/20

Air Canister Certification Results

Lab ID: L2042167-01
Client ID: CAN 410 SHELF 14
Sample Location:

Date Collected: 10/03/20 16:00
Date Received: 10/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 10/12/20 16:21
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2042167
Report Date: 11/16/20

Air Canister Certification Results

Lab ID: L2042167-01
Client ID: CAN 410 SHELF 14
Sample Location:

Date Collected: 10/03/20 16:00
Date Received: 10/05/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2042167
Report Date: 11/16/20

Air Canister Certification Results

Lab ID: L2042167-01
Client ID: CAN 410 SHELF 14
Sample Location:

Date Collected: 10/03/20 16:00
Date Received: 10/05/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2042167
Report Date: 11/16/20

Air Canister Certification Results

Lab ID: L2042167-01
Client ID: CAN 410 SHELF 14
Sample Location:

Date Collected: 10/03/20 16:00
Date Received: 10/05/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2042167**Project Number:** CANISTER QC BAT**Report Date:** 11/16/20**Air Canister Certification Results**

Lab ID: L2042167-01

Date Collected: 10/03/20 16:00

Client ID: CAN 410 SHELF 14

Date Received: 10/05/20

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	98		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2042167
Report Date: 11/16/20

Air Canister Certification Results

Lab ID: L2042167-01
Client ID: CAN 410 SHELF 14
Sample Location:

Date Collected: 10/03/20 16:00
Date Received: 10/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 10/12/20 16:21
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2042167
Report Date: 11/16/20

Air Canister Certification Results

Lab ID: L2042167-01
Client ID: CAN 410 SHELF 14
Sample Location:

Date Collected: 10/03/20 16:00
Date Received: 10/05/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2042167**Project Number:** CANISTER QC BAT**Report Date:** 11/16/20**Air Canister Certification Results****Lab ID:** L2042167-01**Date Collected:** 10/03/20 16:00**Client ID:** CAN 410 SHELF 14**Date Received:** 10/05/20**Sample Location:****Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	98		60-140

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005

Serial_No:11162016:12
Lab Number: L2049358
Report Date: 11/16/20

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2049358-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)

Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2049358**Project Number:** T0136-013-005**Report Date:** 11/16/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005

Lab Number: L2049358
Report Date: 11/16/20

Footnotes

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

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.

Report Format: Data Usability Report



Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2049358**Project Number:** T0136-013-005**Report Date:** 11/16/20**Data Qualifiers**

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

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005

Lab Number: L2049358
Report Date: 11/16/20

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 17

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Certification Information

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

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics**EPA 3C** Fixed gases**Biological Tissue Matrix:** EPA 3050B

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

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

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



ANALYTICAL REPORT

Lab Number:	L2029278
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Nate Munley
Phone:	(716) 225-3314
Project Name:	1050-1088 NIAGARA ST.
Project Number:	T0136-013-005
Report Date:	08/25/20

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005

Lab Number: L2029278
Report Date: 08/25/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2029278-01	SVE-1 INFLUENT	SOIL_VAPOR	1050-1088 NIAGARA ST.	07/09/20 16:49	07/10/20
L2029278-02	SVE-2 EFFLUENT	SOIL_VAPOR	1050-1088 NIAGARA ST.	07/09/20 16:48	07/10/20
L2029278-03	UNUSED CAN #2187	SOIL_VAPOR	1050-1088 NIAGARA ST.		07/10/20

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005

Lab Number: L2029278
Report Date: 08/25/20

Case Narrative

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

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

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

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

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

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

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005

Lab Number: L2029278
Report Date: 08/25/20

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on June 30 and July 1, 2020. The canister certification results are provided as an addendum.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 08/25/20

AIR

Project Name: 1050-1088 NIAGARA ST.**Project Number:** T0136-013-005**Lab Number:** L2029278**Report Date:** 08/25/20**SAMPLE RESULTS**

Lab ID: L2029278-01
 Client ID: SVE-1 INFLUENT
 Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 07/09/20 16:49
 Date Received: 07/10/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 07/16/20 04:19
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.473	0.200	--	2.34	0.989	--		1
Chloromethane	0.516	0.200	--	1.07	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	13.9	5.00	--	26.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	8.08	1.00	--	19.2	2.38	--		1
Trichlorofluoromethane	0.298	0.200	--	1.67	1.12	--		1
Isopropanol	0.640	0.500	--	1.57	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.30	0.500	--	3.94	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.32	0.500	--	3.89	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2029278**Project Number:** T0136-013-005**Report Date:** 08/25/20**SAMPLE RESULTS****Lab ID:** L2029278-01**Date Collected:** 07/09/20 16:49**Client ID:** SVE-1 INFLUENT**Date Received:** 07/10/20**Sample Location:** 1050-1088 NIAGARA ST.**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.772	0.500	--	2.28	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.260	0.200	--	0.831	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.268	0.200	--	1.25	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.615	0.200	--	2.32	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2029278**Project Number:** T0136-013-005**Report Date:** 08/25/20**SAMPLE RESULTS**

Lab ID: L2029278-01
 Client ID: SVE-1 INFLUENT
 Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 07/09/20 16:49
 Date Received: 07/10/20
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.517	0.400	--	2.25	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.281	0.200	--	1.38	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Acetaldehyde	4.0	NJ	ppbV		1
unknown alkane	1.7	J	ppbV		1
Decane (C10)	2.9	NJ	ppbV		1
1-dodecene	2.1	NJ	ppbV		1
Dodecane (C12)	14	NJ	ppbV		1
Octane, 2,6-dimethyl-	2.6	NJ	ppbV		1
Tridecane	2.0	NJ	ppbV		1
Undecane	6.0	NJ	ppbV		1
Methyl Alcohol	3.2	NJ	ppbV		1



Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2029278**Project Number:** T0136-013-005**Report Date:** 08/25/20**SAMPLE RESULTS**

Lab ID: L2029278-01

Date Collected: 07/09/20 16:49

Client ID: SVE-1 INFLUENT

Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA ST.

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Heptane, 2,4-dimethyl-	2.8	NJ	ppbV		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	80		60-140
chlorobenzene-d5	75		60-140

Project Name: 1050-1088 NIAGARA ST.**Project Number:** T0136-013-005**Lab Number:** L2029278**Report Date:** 08/25/20**SAMPLE RESULTS**

Lab ID: L2029278-02
 Client ID: SVE-2 EFFLUENT
 Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 07/09/20 16:48
 Date Received: 07/10/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 07/16/20 06:27
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.06	0.200	--	5.24	0.989	--		1
Chloromethane	1.20	0.200	--	2.48	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	52.6	5.00	--	99.1	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	56.4	1.00	--	134	2.38	--		1
Trichlorofluoromethane	2.25	0.200	--	12.6	1.12	--		1
Isopropanol	1.22	0.500	--	3.00	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	13.3	0.500	--	40.3	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.499	0.200	--	1.55	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	2.28	0.500	--	6.72	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2029278**Project Number:** T0136-013-005**Report Date:** 08/25/20**SAMPLE RESULTS**

Lab ID: L2029278-02
 Client ID: SVE-2 EFFLUENT
 Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 07/09/20 16:48
 Date Received: 07/10/20
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.689	0.500	--	2.03	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.489	0.200	--	1.56	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	0.867	0.200	--	4.66	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.292	0.200	--	1.20	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.770	0.200	--	2.90	0.754	--		1
2-Hexanone	0.249	0.200	--	1.02	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.208	0.200	--	0.903	0.869	--		1



Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2029278**Project Number:** T0136-013-005**Report Date:** 08/25/20**SAMPLE RESULTS****Lab ID:** L2029278-02**Date Collected:** 07/09/20 16:48**Client ID:** SVE-2 EFFLUENT**Date Received:** 07/10/20**Sample Location:** 1050-1088 NIAGARA ST.**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.920	0.400	--	4.00	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.234	0.200	--	0.996	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.271	0.200	--	1.18	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.397	0.200	--	1.95	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
1-Propene, 2-methyl-	9.5	NJ	ppbV		1
Unknown	4.2	J	ppbV		1
Methyl Alcohol	21	NJ	ppbV		1
Cyclotrisiloxane, Hexamethyl-	2.7	NJ	ppbV		1
Acetaldehyde	43	NJ	ppbV		1
Dodecane (C12)	12	NJ	ppbV		1
1-dodecene	1.8	NJ	ppbV		1
Undecane	6.6	NJ	ppbV		1
Decane (C10)	4.1	NJ	ppbV		1



Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2029278**Project Number:** T0136-013-005**Report Date:** 08/25/20**SAMPLE RESULTS**

Lab ID: L2029278-02

Date Collected: 07/09/20 16:48

Client ID: SVE-2 EFFLUENT

Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA ST.

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Tridecane	1.8	NJ	ppbV		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	82		60-140
Bromochloromethane	80		60-140
chlorobenzene-d5	78		60-140

Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2029278**Project Number:** T0136-013-005**Report Date:** 08/25/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 07/15/20 14:50

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1392535-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2029278**Project Number:** T0136-013-005**Report Date:** 08/25/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 07/15/20 14:50

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1392535-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: 1050-1088 NIAGARA ST.

Lab Number: L2029278

Project Number: T0136-013-005

Report Date: 08/25/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 07/15/20 14:50

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1392535-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.

Project Number: T0136-013-005

Lab Number: L2029278

Report Date: 08/25/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1392535-3								
Dichlorodifluoromethane	118		-		70-130	-		
Chloromethane	106		-		70-130	-		
Freon-114	110		-		70-130	-		
Vinyl chloride	108		-		70-130	-		
1,3-Butadiene	109		-		70-130	-		
Bromomethane	108		-		70-130	-		
Chloroethane	106		-		70-130	-		
Ethanol	96		-		40-160	-		
Vinyl bromide	104		-		70-130	-		
Acetone	84		-		40-160	-		
Trichlorofluoromethane	111		-		70-130	-		
Isopropanol	85		-		40-160	-		
1,1-Dichloroethene	110		-		70-130	-		
Tertiary butyl Alcohol	101		-		70-130	-		
Methylene chloride	103		-		70-130	-		
3-Chloropropene	113		-		70-130	-		
Carbon disulfide	99		-		70-130	-		
Freon-113	110		-		70-130	-		
trans-1,2-Dichloroethene	107		-		70-130	-		
1,1-Dichloroethane	110		-		70-130	-		
Methyl tert butyl ether	102		-		70-130	-		
2-Butanone	110		-		70-130	-		
cis-1,2-Dichloroethene	112		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.

Project Number: T0136-013-005

Lab Number: L2029278

Report Date: 08/25/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1392535-3								
Ethyl Acetate	120		-		70-130	-		
Chloroform	108		-		70-130	-		
Tetrahydrofuran	110		-		70-130	-		
1,2-Dichloroethane	106		-		70-130	-		
n-Hexane	109		-		70-130	-		
1,1,1-Trichloroethane	108		-		70-130	-		
Benzene	104		-		70-130	-		
Carbon tetrachloride	113		-		70-130	-		
Cyclohexane	112		-		70-130	-		
1,2-Dichloropropane	112		-		70-130	-		
Bromodichloromethane	113		-		70-130	-		
1,4-Dioxane	112		-		70-130	-		
Trichloroethene	111		-		70-130	-		
2,2,4-Trimethylpentane	114		-		70-130	-		
Heptane	109		-		70-130	-		
cis-1,3-Dichloropropene	114		-		70-130	-		
4-Methyl-2-pentanone	109		-		70-130	-		
trans-1,3-Dichloropropene	97		-		70-130	-		
1,1,2-Trichloroethane	117		-		70-130	-		
Toluene	109		-		70-130	-		
2-Hexanone	106		-		70-130	-		
Dibromochloromethane	124		-		70-130	-		
1,2-Dibromoethane	112		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.

Lab Number: L2029278

Project Number: T0136-013-005

Report Date: 08/25/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1392535-3								
Tetrachloroethene	112		-		70-130	-		
Chlorobenzene	110		-		70-130	-		
Ethylbenzene	114		-		70-130	-		
p/m-Xylene	112		-		70-130	-		
Bromoform	121		-		70-130	-		
Styrene	111		-		70-130	-		
1,1,2,2-Tetrachloroethane	118		-		70-130	-		
o-Xylene	113		-		70-130	-		
4-Ethyltoluene	113		-		70-130	-		
1,3,5-Trimethylbenzene	113		-		70-130	-		
1,2,4-Trimethylbenzene	116		-		70-130	-		
Benzyl chloride	116		-		70-130	-		
1,3-Dichlorobenzene	112		-		70-130	-		
1,4-Dichlorobenzene	108		-		70-130	-		
1,2-Dichlorobenzene	114		-		70-130	-		
1,2,4-Trichlorobenzene	100		-		70-130	-		
Hexachlorobutadiene	129		-		70-130	-		

Project Name: 1050-1088 NIAGARA ST.

Serial_No:08252012:46
Lab Number: L2029278

Project Number: T0136-013-005

Report Date: 08/25/20

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2029278-01	SVE-1 INFLUENT	01497	Flow 2	06/30/20	325069		-	-	-	Pass	72	78	8
L2029278-01	SVE-1 INFLUENT	2196	2.7L Can	07/01/20	325173	L2026031-01	Pass	-29.3	-5.2	-	-	-	-
L2029278-02	SVE-2 EFFLUENT	01011	Flow 2	06/30/20	325069		-	-	-	Pass	72	80	11
L2029278-02	SVE-2 EFFLUENT	3105	2.7L Can	06/30/20	325069	L2025282-01	Pass	-29.0	-5.8	-	-	-	-
L2029278-03	UNUSED CAN #2187	0396	Flow 2	06/30/20	325069		-	-	-	Pass	72	82	13
L2029278-03	UNUSED CAN #2187	2187	2.7L Can	07/01/20	325173	L2026031-01	Pass	-29.1	-29.4	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2025282
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2025282-01
Client ID: CAN 1729 SHELF 14
Sample Location:

Date Collected: 06/16/20 16:00
Date Received: 06/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 06/22/20 18:45
Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2025282
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2025282-01
Client ID: CAN 1729 SHELF 14
Sample Location:

Date Collected: 06/16/20 16:00
Date Received: 06/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2025282
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2025282-01
Client ID: CAN 1729 SHELF 14
Sample Location:

Date Collected: 06/16/20 16:00
Date Received: 06/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2025282
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2025282-01
Client ID: CAN 1729 SHELF 14
Sample Location:

Date Collected: 06/16/20 16:00
Date Received: 06/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2025282**Project Number:** CANISTER QC BAT**Report Date:** 08/25/20**Air Canister Certification Results**

Lab ID: L2025282-01

Date Collected: 06/16/20 16:00

Client ID: CAN 1729 SHELF 14

Date Received: 06/17/20

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				
No Tentatively Identified Compounds				

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2025282
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2025282-01
Client ID: CAN 1729 SHELF 14
Sample Location:

Date Collected: 06/16/20 16:00
Date Received: 06/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 06/22/20 18:45
Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2025282
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2025282-01
Client ID: CAN 1729 SHELF 14
Sample Location:

Date Collected: 06/16/20 16:00
Date Received: 06/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2025282
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2025282-01
Client ID: CAN 1729 SHELF 14
Sample Location:

Date Collected: 06/16/20 16:00
Date Received: 06/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	0.071	0.050	--	0.757	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	94		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2026031
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2026031-01
Client ID: CAN 2555 SHELF 13
Sample Location:

Date Collected: 06/19/20 16:00
Date Received: 06/20/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 06/23/20 02:40
Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2026031
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2026031-01
Client ID: CAN 2555 SHELF 13
Sample Location:

Date Collected: 06/19/20 16:00
Date Received: 06/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2026031
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2026031-01
Client ID: CAN 2555 SHELF 13
Sample Location:

Date Collected: 06/19/20 16:00
Date Received: 06/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2026031
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2026031-01
Client ID: CAN 2555 SHELF 13
Sample Location:

Date Collected: 06/19/20 16:00
Date Received: 06/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2026031**Project Number:** CANISTER QC BAT**Report Date:** 08/25/20**Air Canister Certification Results**

Lab ID: L2026031-01

Date Collected: 06/19/20 16:00

Client ID: CAN 2555 SHELF 13

Date Received: 06/20/20

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				
No Tentatively Identified Compounds				

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	91		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2026031
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2026031-01
Client ID: CAN 2555 SHELF 13
Sample Location:

Date Collected: 06/19/20 16:00
Date Received: 06/20/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 06/23/20 02:40
Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2026031
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2026031-01
Client ID: CAN 2555 SHELF 13
Sample Location:

Date Collected: 06/19/20 16:00
Date Received: 06/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2026031**Project Number:** CANISTER QC BAT**Report Date:** 08/25/20**Air Canister Certification Results**

Lab ID: L2026031-01

Date Collected: 06/19/20 16:00

Client ID: CAN 2555 SHELF 13

Date Received: 06/20/20

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	93		60-140



Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2029278**Project Number:** T0136-013-005**Report Date:** 08/25/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

NA Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2029278-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2029278-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2029278-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		CLEAN-FEE()

Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2029278**Project Number:** T0136-013-005**Report Date:** 08/25/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCS D	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2029278**Project Number:** T0136-013-005**Report Date:** 08/25/20

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

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: Data Usability Report



Project Name: 1050-1088 NIAGARA ST.**Lab Number:** L2029278**Project Number:** T0136-013-005**Report Date:** 08/25/20**Data Qualifiers**

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005

Lab Number: L2029278
Report Date: 08/25/20

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 17

Published Date: 4/28/2020 9:42:21 AM

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Certification Information

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

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics**EPA 3C** Fixed gases**Biological Tissue Matrix:** EPA 3050B

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

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

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



ANALYTICAL REPORT

Lab Number:	L2127298
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Nate Munley
Phone:	(716) 856-0599
Project Name:	1050-1088 NIAGARA STREET SITE
Project Number:	T0136-013-005
Report Date:	06/07/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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

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



Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2127298-01	TMW-3	WATER	1050-1088 NIAGARA ST	05/23/21 11:13	05/24/21
L2127298-02	MW-3	WATER	1050-1088 NIAGARA ST	05/23/21 11:55	05/24/21
L2127298-03	MW-6	WATER	1050-1088 NIAGARA ST	05/23/21 09:30	05/24/21

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

Case Narrative

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

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

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

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

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

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

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

Case Narrative (continued)

Report Submission

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

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

Authorized Signature:



Caitlin Walukevich

Title: Technical Director/Representative

Date: 06/07/21

ORGANICS

VOLATILES

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS**

Lab ID: L2127298-01
 Client ID: TMW-3
 Sample Location: 1050-1088 NIAGARA ST

Date Collected: 05/23/21 11:13
 Date Received: 05/24/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 05/26/21 13:34
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS****Lab ID:** L2127298-01**Date Collected:** 05/23/21 11:13**Client ID:** TMW-3**Date Received:** 05/24/21**Sample Location:** 1050-1088 NIAGARA ST**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.0	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds

Total TIC Compounds	2.00	J	ug/l	1
Sulfur Dioxide	2.00	NJ	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS**

Lab ID: L2127298-02 D
 Client ID: MW-3
 Sample Location: 1050-1088 NIAGARA ST

Date Collected: 05/23/21 11:55
 Date Received: 05/24/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 05/27/21 01:15
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	10	2.8	4
1,1-Dichloroethane	ND		ug/l	10	2.8	4
Chloroform	ND		ug/l	10	2.8	4
Carbon tetrachloride	ND		ug/l	2.0	0.54	4
1,2-Dichloropropane	ND		ug/l	4.0	0.55	4
Dibromochloromethane	ND		ug/l	2.0	0.60	4
1,1,2-Trichloroethane	ND		ug/l	6.0	2.0	4
Tetrachloroethene	ND		ug/l	2.0	0.72	4
Chlorobenzene	ND		ug/l	10	2.8	4
Trichlorofluoromethane	ND		ug/l	10	2.8	4
1,2-Dichloroethane	ND		ug/l	2.0	0.53	4
1,1,1-Trichloroethane	ND		ug/l	10	2.8	4
Bromodichloromethane	ND		ug/l	2.0	0.77	4
trans-1,3-Dichloropropene	ND		ug/l	2.0	0.66	4
cis-1,3-Dichloropropene	ND		ug/l	2.0	0.58	4
Bromoform	ND		ug/l	8.0	2.6	4
1,1,2,2-Tetrachloroethane	ND		ug/l	2.0	0.67	4
Benzene	31		ug/l	2.0	0.64	4
Toluene	5.2	J	ug/l	10	2.8	4
Ethylbenzene	3.6	J	ug/l	10	2.8	4
Chloromethane	ND		ug/l	10	2.8	4
Bromomethane	ND		ug/l	10	2.8	4
Vinyl chloride	ND		ug/l	4.0	0.28	4
Chloroethane	ND		ug/l	10	2.8	4
1,1-Dichloroethene	ND		ug/l	2.0	0.68	4
trans-1,2-Dichloroethene	ND		ug/l	10	2.8	4
Trichloroethene	ND		ug/l	2.0	0.70	4
1,2-Dichlorobenzene	ND		ug/l	10	2.8	4

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS**

Lab ID: L2127298-02 D

Date Collected: 05/23/21 11:55

Client ID: MW-3

Date Received: 05/24/21

Sample Location: 1050-1088 NIAGARA ST

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	10	2.8	4
1,4-Dichlorobenzene	ND		ug/l	10	2.8	4
Methyl tert butyl ether	ND		ug/l	10	2.8	4
p/m-Xylene	7.8	J	ug/l	10	2.8	4
o-Xylene	3.4	J	ug/l	10	2.8	4
cis-1,2-Dichloroethene	ND		ug/l	10	2.8	4
Styrene	ND		ug/l	10	2.8	4
Dichlorodifluoromethane	ND		ug/l	20	4.0	4
Acetone	ND		ug/l	20	5.8	4
Carbon disulfide	ND		ug/l	20	4.0	4
2-Butanone	ND		ug/l	20	7.8	4
4-Methyl-2-pentanone	ND		ug/l	20	4.0	4
2-Hexanone	ND		ug/l	20	4.0	4
Bromochloromethane	ND		ug/l	10	2.8	4
1,2-Dibromoethane	ND		ug/l	8.0	2.6	4
1,2-Dibromo-3-chloropropane	ND		ug/l	10	2.8	4
Isopropylbenzene	88		ug/l	10	2.8	4
1,2,3-Trichlorobenzene	ND		ug/l	10	2.8	4
1,2,4-Trichlorobenzene	ND		ug/l	10	2.8	4
Methyl Acetate	ND		ug/l	8.0	0.94	4
Cyclohexane	540		ug/l	40	1.1	4
1,4-Dioxane	ND		ug/l	1000	240	4
Freon-113	ND		ug/l	10	2.8	4
Methyl cyclohexane	380		ug/l	40	1.6	4

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS**

Lab ID: L2127298-02 D

Date Collected: 05/23/21 11:55

Client ID: MW-3

Date Received: 05/24/21

Sample Location: 1050-1088 NIAGARA ST

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	1700	J	ug/l	4
Butane, 2-Methyl-	116	NJ	ug/l	4
Pentane	133	NJ	ug/l	4
Unknown	292	J	ug/l	4
Pentane, 3-methyl-	98.8	NJ	ug/l	4
Cyclopentane, Methyl-	390	NJ	ug/l	4
Unknown	98.3	J	ug/l	4
Cyclohexene	154	NJ	ug/l	4
Unknown Cycloalkane	143	J	ug/l	4
3-Phenylbut-1-ene	133	NJ	ug/l	4
Unknown Cyclohexane	140	J	ug/l	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	87		70-130

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS**

Lab ID: L2127298-03
 Client ID: MW-6
 Sample Location: 1050-1088 NIAGARA ST

Date Collected: 05/23/21 09:30
 Date Received: 05/24/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 05/26/21 14:29
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS****Lab ID:** L2127298-03**Date Collected:** 05/23/21 09:30**Client ID:** MW-6**Date Received:** 05/24/21**Sample Location:** 1050-1088 NIAGARA ST**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	104		70-130

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/26/21 09:56
 Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1504113-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/26/21 09:56
 Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1504113-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/26/21 09:56
 Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1504113-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/26/21 18:39
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1504575-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/26/21 18:39
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1504575-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/26/21 18:39
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1504575-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	116		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Lab Number: L2127298

Project Number: T0136-013-005

Report Date: 06/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1504113-3 WG1504113-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	79		76		63-132	4		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	120		120		70-130	0		20
Tetrachloroethene	93		90		70-130	3		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	81		78		62-150	4		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	91		88		67-130	3		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	92		97		70-130	5		20
cis-1,3-Dichloropropene	94		96		70-130	2		20
Bromoform	95		100		54-136	5		20
1,1,2,2-Tetrachloroethane	120		120		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	100		98		70-130	2		20
Ethylbenzene	97		96		70-130	1		20
Chloromethane	97		90		64-130	7		20
Bromomethane	56		58		39-139	4		20
Vinyl chloride	84		81		55-140	4		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Lab Number: L2127298

Project Number: T0136-013-005

Report Date: 06/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1504113-3 WG1504113-4								
Chloroethane	78		71		55-138	9		20
1,1-Dichloroethene	90		86		61-145	5		20
trans-1,2-Dichloroethene	97		94		70-130	3		20
Trichloroethene	90		87		70-130	3		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	89		96		63-130	8		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		95		70-130	5		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	57		56		36-147	2		20
Acetone	160	Q	140		58-148	13		20
Carbon disulfide	92		88		51-130	4		20
2-Butanone	120		120		63-138	0		20
4-Methyl-2-pentanone	120		130		59-130	8		20
2-Hexanone	120		130		57-130	8		20
Bromochloromethane	110		110		70-130	0		20
1,2-Dibromoethane	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	100		100		41-144	0		20
Isopropylbenzene	93		89		70-130	4		20
1,2,3-Trichlorobenzene	94		100		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2127298

Report Date: 06/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1504113-3 WG1504113-4								
1,2,4-Trichlorobenzene	100		100		70-130	0		20
Methyl Acetate	130		130		70-130	0		20
Cyclohexane	93		90		70-130	3		20
1,4-Dioxane	114		120		56-162	5		20
Freon-113	84		82		70-130	2		20
Methyl cyclohexane	81		78		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		105		70-130
Toluene-d8	103		104		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	102		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2127298

Report Date: 06/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1504575-3 WG1504575-4								
Methylene chloride	99		95		70-130	4		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	100		110		63-130	10		20
1,1,2-Trichloroethane	99		100		70-130	1		20
Tetrachloroethene	98		100		70-130	2		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	120		110		62-150	9		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	83		86		70-130	4		20
cis-1,3-Dichloropropene	92		94		70-130	2		20
Bromoform	94		97		54-136	3		20
1,1,2,2-Tetrachloroethane	94		98		67-130	4		20
Benzene	93		91		70-130	2		20
Toluene	94		93		70-130	1		20
Ethylbenzene	94		94		70-130	0		20
Chloromethane	100		95		64-130	5		20
Bromomethane	69		65		39-139	6		20
Vinyl chloride	100		100		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2127298

Report Date: 06/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1504575-3 WG1504575-4								
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	98		96		70-130	2		20
1,2-Dichlorobenzene	96		97		70-130	1		20
1,3-Dichlorobenzene	97		96		70-130	1		20
1,4-Dichlorobenzene	98		97		70-130	1		20
Methyl tert butyl ether	90		92		63-130	2		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	90		95		70-130	5		20
cis-1,2-Dichloroethene	100		99		70-130	1		20
Styrene	95		100		70-130	5		20
Dichlorodifluoromethane	77		75		36-147	3		20
Acetone	100		110		58-148	10		20
Carbon disulfide	95		92		51-130	3		20
2-Butanone	100		120		63-138	18		20
4-Methyl-2-pentanone	100		110		59-130	10		20
2-Hexanone	120		130		57-130	8		20
Bromochloromethane	120		110		70-130	9		20
1,2-Dibromoethane	97		100		70-130	3		20
1,2-Dibromo-3-chloropropane	100		110		41-144	10		20
Isopropylbenzene	89		90		70-130	1		20
1,2,3-Trichlorobenzene	94		95		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2127298

Report Date: 06/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1504575-3 WG1504575-4								
1,2,4-Trichlorobenzene	88		91		70-130	3		20
Methyl Acetate	120		120		70-130	0		20
Cyclohexane	110		110		70-130	0		20
1,4-Dioxane	162		154		56-162	5		20
Freon-113	100		98		70-130	2		20
Methyl cyclohexane	91		91		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		114		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	96		95		70-130
Dibromofluoromethane	105		103		70-130

SEMIVOLATILES

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS**

Lab ID: L2127298-01
 Client ID: TMW-3
 Sample Location: 1050-1088 NIAGARA ST

Date Collected: 05/23/21 11:13
 Date Received: 05/24/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 05/28/21 13:54
 Analyst: EK

Extraction Method: EPA 3510C
 Extraction Date: 05/27/21 20:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.7	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	3.5	J	ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS****Lab ID:** L2127298-01**Date Collected:** 05/23/21 11:13**Client ID:** TMW-3**Date Received:** 05/24/21**Sample Location:** 1050-1088 NIAGARA ST**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	3.5	J	ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS****Lab ID:** L2127298-01**Date Collected:** 05/23/21 11:13**Client ID:** TMW-3**Date Received:** 05/24/21**Sample Location:** 1050-1088 NIAGARA ST**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	184	J	ug/l			1
Unknown	28.6	J	ug/l			1
Unknown	15.2	J	ug/l			1
Unknown Alcohol	3.31	J	ug/l			1
Unknown	3.85	J	ug/l			1
Unknown	20.7	J	ug/l			1
Unknown	19.0	J	ug/l			1
Unknown	24.0	J	ug/l			1
Unknown Organic Acid	5.56	J	ug/l			1
Unknown Organic Acid	6.11	J	ug/l			1
Unknown	11.2	J	ug/l			1
Unknown Organic Acid	3.78	J	ug/l			1
Unknown	3.78	J	ug/l			1
Unknown	6.04	J	ug/l			1
Unknown	29.8	J	ug/l			1
Unknown	3.42	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	80		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS**

Lab ID: L2127298-01
 Client ID: TMW-3
 Sample Location: 1050-1088 NIAGARA ST

Date Collected: 05/23/21 11:13
 Date Received: 05/24/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 05/28/21 18:54
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 05/27/21 20:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.18		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.09	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.09	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.10		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.14		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Chrysene	0.11		ug/l	0.10	0.01	1
Acenaphthylene	0.02	J	ug/l	0.10	0.01	1
Anthracene	0.04	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.10		ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.11		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.03	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.10	J	ug/l	0.10	0.01	1
Pyrene	0.16		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS**

Lab ID: L2127298-01

Date Collected: 05/23/21 11:13

Client ID: TMW-3

Date Received: 05/24/21

Sample Location: 1050-1088 NIAGARA ST

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	83		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS**

Lab ID: L2127298-02
 Client ID: MW-3
 Sample Location: 1050-1088 NIAGARA ST

Date Collected: 05/23/21 11:55
 Date Received: 05/24/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 05/28/21 14:18
 Analyst: EK

Extraction Method: EPA 3510C
 Extraction Date: 05/27/21 20:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.4	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS****Lab ID:** L2127298-02**Date Collected:** 05/23/21 11:55**Client ID:** MW-3**Date Received:** 05/24/21**Sample Location:** 1050-1088 NIAGARA ST**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS****Lab ID:** L2127298-02**Date Collected:** 05/23/21 11:55**Client ID:** MW-3**Date Received:** 05/24/21**Sample Location:** 1050-1088 NIAGARA ST**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	479	J	ug/l	1
Unknown Alkane	23.5	J	ug/l	1
Unknown Alkane	32.4	J	ug/l	1
Unknown	33.2	J	ug/l	1
Unknown	19.8	J	ug/l	1
Unknown Benzene	23.8	J	ug/l	1
Unknown Alkane	45.5	J	ug/l	1
Indane	79.7	NJ	ug/l	1
Unknown Cycloalkane	20.4	J	ug/l	1
Unknown Cycloalkane	34.7	J	ug/l	1
Unknown Alkane	49.2	J	ug/l	1
Unknown Benzene	22.3	J	ug/l	1
Unknown Benzene	25.0	J	ug/l	1
Unknown	23.5	J	ug/l	1
Unknown	21.5	J	ug/l	1
Unknown	24.5	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	79		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS**

Lab ID: L2127298-02
 Client ID: MW-3
 Sample Location: 1050-1088 NIAGARA ST

Date Collected: 05/23/21 11:55
 Date Received: 05/24/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 05/28/21 19:13
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 05/27/21 20:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.10		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.47		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	1.6		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.24		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.18		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.24		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.08	J	ug/l	0.10	0.01	1
Chrysene	0.26		ug/l	0.10	0.01	1
Acenaphthylene	0.05	J	ug/l	0.10	0.01	1
Anthracene	0.11		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.11		ug/l	0.10	0.01	1
Fluorene	0.12		ug/l	0.10	0.01	1
Phenanthrene	0.40		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.03	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.13		ug/l	0.10	0.01	1
Pyrene	0.46		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.11		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS**

Lab ID: L2127298-02

Date Collected: 05/23/21 11:55

Client ID: MW-3

Date Received: 05/24/21

Sample Location: 1050-1088 NIAGARA ST

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	161	Q	23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	73		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS**

Lab ID: L2127298-03
 Client ID: MW-6
 Sample Location: 1050-1088 NIAGARA ST

Date Collected: 05/23/21 09:30
 Date Received: 05/24/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 05/28/21 14:42
 Analyst: EK

Extraction Method: EPA 3510C
 Extraction Date: 05/27/21 20:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.5	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS****Lab ID:** L2127298-03**Date Collected:** 05/23/21 09:30**Client ID:** MW-6**Date Received:** 05/24/21**Sample Location:** 1050-1088 NIAGARA ST**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	62		10-120
4-Terphenyl-d14	82		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS**

Lab ID: L2127298-03
 Client ID: MW-6
 Sample Location: 1050-1088 NIAGARA ST

Date Collected: 05/23/21 09:30
 Date Received: 05/24/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 05/28/21 19:32
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 05/27/21 20:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.04	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.02	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.03	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.01	J	ug/l	0.10	0.01	1
Pyrene	0.03	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**SAMPLE RESULTS**

Lab ID: L2127298-03

Date Collected: 05/23/21 09:30

Client ID: MW-6

Date Received: 05/24/21

Sample Location: 1050-1088 NIAGARA ST

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	87		41-149

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/28/21 09:57
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/27/21 20:32

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1504713-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/28/21 09:57
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/27/21 20:32

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1504713-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/28/21 09:57
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 05/27/21 20:32

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1504713-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	97		41-149

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/28/21 13:35
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 05/27/21 20:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1504716-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/28/21 13:35
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 05/27/21 20:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1504716-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	93		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2127298

Report Date: 06/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1504713-2 WG1504713-3								
Bis(2-chloroethyl)ether	53		43		40-140	21		30
3,3'-Dichlorobenzidine	61		59		40-140	3		30
2,4-Dinitrotoluene	70		63		48-143	11		30
2,6-Dinitrotoluene	73		63		40-140	15		30
4-Chlorophenyl phenyl ether	70		61		40-140	14		30
4-Bromophenyl phenyl ether	73		66		40-140	10		30
Bis(2-chloroisopropyl)ether	44		37	Q	40-140	17		30
Bis(2-chloroethoxy)methane	55		46		40-140	18		30
Hexachlorocyclopentadiene	51		43		40-140	17		30
Isophorone	56		47		40-140	17		30
Nitrobenzene	55		47		40-140	16		30
NDPA/DPA	74		66		40-140	11		30
n-Nitrosodi-n-propylamine	56		48		29-132	15		30
Bis(2-ethylhexyl)phthalate	63		58		40-140	8		30
Butyl benzyl phthalate	68		64		40-140	6		30
Di-n-butylphthalate	71		60		40-140	17		30
Di-n-octylphthalate	65		62		40-140	5		30
Diethyl phthalate	69		62		40-140	11		30
Dimethyl phthalate	71		65		40-140	9		30
Biphenyl	67		58		40-140	14		30
4-Chloroaniline	63		51		40-140	21		30
2-Nitroaniline	75		65		52-143	14		30
3-Nitroaniline	70		61		25-145	14		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Lab Number: L2127298

Project Number: T0136-013-005

Report Date: 06/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1504713-2 WG1504713-3								
4-Nitroaniline	75		67		51-143	11		30
Dibenzofuran	70		61		40-140	14		30
1,2,4,5-Tetrachlorobenzene	68		55		2-134	21		30
Acetophenone	59		49		39-129	19		30
2,4,6-Trichlorophenol	75		66		30-130	13		30
p-Chloro-m-cresol	73		68		23-97	7		30
2-Chlorophenol	59		49		27-123	19		30
2,4-Dichlorophenol	68		59		30-130	14		30
2,4-Dimethylphenol	56		44		30-130	24		30
2-Nitrophenol	58		47		30-130	21		30
4-Nitrophenol	65		61		10-80	6		30
2,4-Dinitrophenol	46		47		20-130	2		30
4,6-Dinitro-o-cresol	36		37		20-164	3		30
Phenol	40		36		12-110	11		30
3-Methylphenol/4-Methylphenol	61		52		30-130	16		30
2,4,5-Trichlorophenol	84		74		30-130	13		30
Carbazole	76		68		55-144	11		30
Atrazine	76		72		40-140	5		30
Benzaldehyde	59		47		40-140	23		30
Caprolactam	30		26		10-130	14		30
2,3,4,6-Tetrachlorophenol	82		73		40-140	12		30

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1504713-2 WG1504713-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	61		50		21-120
Phenol-d6	47		41		10-120
Nitrobenzene-d5	65		51		23-120
2-Fluorobiphenyl	74		66		15-120
2,4,6-Tribromophenol	98		86		10-120
4-Terphenyl-d14	84		80		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2127298

Report Date: 06/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1504716-2 WG1504716-3								
Acenaphthene	69		84		40-140	20		40
2-Chloronaphthalene	62		76		40-140	20		40
Fluoranthene	81		92		40-140	13		40
Hexachlorobutadiene	52		68		40-140	27		40
Naphthalene	62		79		40-140	24		40
Benzo(a)anthracene	80		90		40-140	12		40
Benzo(a)pyrene	82		93		40-140	13		40
Benzo(b)fluoranthene	76		83		40-140	9		40
Benzo(k)fluoranthene	73		89		40-140	20		40
Chrysene	71		86		40-140	19		40
Acenaphthylene	65		76		40-140	16		40
Anthracene	77		90		40-140	16		40
Benzo(ghi)perylene	88		99		40-140	12		40
Fluorene	71		84		40-140	17		40
Phenanthrene	72		85		40-140	17		40
Dibenzo(a,h)anthracene	90		102		40-140	13		40
Indeno(1,2,3-cd)pyrene	91		103		40-140	12		40
Pyrene	82		93		40-140	13		40
2-Methylnaphthalene	63		77		40-140	20		40
Pentachlorophenol	66		64		40-140	3		40
Hexachlorobenzene	67		78		40-140	15		40
Hexachloroethane	43		58		40-140	30		40

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1504716-2 WG1504716-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	57		72		21-120
Phenol-d6	48		60		10-120
Nitrobenzene-d5	63		79		23-120
2-Fluorobiphenyl	63		76		15-120
2,4,6-Tribromophenol	103		112		10-120
4-Terphenyl-d14	85		96		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2127298-01A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2127298-01B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2127298-01C	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2127298-01D	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2127298-01E	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2127298-02A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2127298-02B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2127298-02C	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2127298-02D	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2127298-02E	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2127298-03A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2127298-03B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2127298-03C	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L2127298-03D	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2127298-03E	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2127298**Project Number:** T0136-013-005**Report Date:** 06/07/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

Data Qualifiers

- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2127298
Report Date: 06/07/21

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

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

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 5/25/21		ALPHA Job # 12127298																																																																																																																																																									
		Project Information Project Name: 1050-1088 NIAGARA STREET SITE Project Location: 1050-1088 NIAGARA ST Project # 0136-013-005 (Use Project name as Project #) ☐ Project Manager: NATE MUNLEY ALPHAQuote #: Turn-Around Time: Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Deliverables ☐ ASP-A ☐ ASP-B ☐ EQuIS (1 File) ☐ EQuIS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO #																																																																																																																																																											
Client Information Client: TURNKEY ENV. REST. Address: 2558 HAMBURG TRPK BUFFALO, NY 14218 Phone: 716-856-0599 Fax: Email: nmunley@bmtk.com		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☒ NY ☐ Other:																																																																																																																																																													
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: CAT B Please specify Metals or TAL.		ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles																																																																																																																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">TEL VOC + TLCS</th> <th rowspan="2">TEL SVOC + TLCS</th> <th colspan="6"></th> <th rowspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> <th colspan="6"></th> </tr> </thead> <tbody> <tr> <td>27298-01</td> <td>TMW-3</td> <td>5/23/21</td> <td>1113</td> <td>AQUA</td> <td>CS</td> <td>X</td> <td>X</td> <td></td><td></td><td></td><td></td><td></td><td></td> <td></td> </tr> <tr> <td>-02</td> <td>MW-3</td> <td>↓</td> <td>1155</td> <td>↓</td> <td>↓</td> <td>X</td> <td>X</td> <td></td><td></td><td></td><td></td><td></td><td></td> <td></td> </tr> <tr> <td>-03</td> <td>MW-6</td> <td>↓</td> <td>130</td> <td>↓</td> <td>↓</td> <td>X</td> <td>X</td> <td></td><td></td><td></td><td></td><td></td><td></td> <td></td> </tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID	Collection			Sample Matrix	Sampler's Initials	TEL VOC + TLCS	TEL SVOC + TLCS							Sample Specific Comments	Date	Time							27298-01	TMW-3	5/23/21	1113	AQUA	CS	X	X								-02	MW-3	↓	1155	↓	↓	X	X								-03	MW-6	↓	130	↓	↓	X	X																																																																																																		
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Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type V A Preservative B A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																																																																																																																																																									
Relinquished By: Chad M. Munley Date/Time: 5/24/21 730		Received By: Amy AAL Date/Time: 5/24/21 820		Relinquished By: Amy AAL Date/Time: 5/24/21 1250		Received By: Amy AAL Date/Time: 5/23/21 0100																																																																																																																																																											



ANALYTICAL REPORT

Lab Number:	L2049347
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Nate Munley
Phone:	(716) 856-0599
Project Name:	1050-1088 NIAGARA STREET SITE
Project Number:	T0136-013-005
Report Date:	11/16/20

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

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



Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2049347-01	TMW-3	WATER	1050-1088 NIAGARA STREET	11/07/20 10:00	11/09/20
L2049347-02	MW-3	WATER	1050-1088 NIAGARA STREET	11/07/20 11:00	11/09/20
L2049347-03	MW-6	WATER	1050-1088 NIAGARA STREET	11/07/20 13:00	11/09/20

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

Case Narrative

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

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

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

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

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

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

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

Case Narrative (continued)

Report Submission

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

Volatile Organics

L2049347-02: The surrogate recoveries are outside the acceptance criteria for toluene-d8 (150%) and 4-bromofluorobenzene (154%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

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

Authorized Signature:



Caitlin Walukevich

Title: Technical Director/Representative

Date: 11/16/20

ORGANICS

VOLATILES

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049347-01

Date Collected: 11/07/20 10:00

Client ID: TMW-3

Date Received: 11/09/20

Sample Location: 1050-1088 NIAGARA STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 11/12/20 21:35

Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS****Lab ID:** L2049347-01**Date Collected:** 11/07/20 10:00**Client ID:** TMW-3**Date Received:** 11/09/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049347-02

Date Collected: 11/07/20 11:00

Client ID: MW-3

Date Received: 11/09/20

Sample Location: 1050-1088 NIAGARA STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 11/13/20 20:48

Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	36		ug/l	0.50	0.16	1
Toluene	5.1		ug/l	2.5	0.70	1
Ethylbenzene	2.8		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS****Lab ID:** L2049347-02**Date Collected:** 11/07/20 11:00**Client ID:** MW-3**Date Received:** 11/09/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	8.4		ug/l	2.5	0.70	1
o-Xylene	3.5		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	27		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	70		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	350	E	ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	310	E	ug/l	10	0.40	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049347-02

Date Collected: 11/07/20 11:00

Client ID: MW-3

Date Received: 11/09/20

Sample Location: 1050-1088 NIAGARA STREET

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	972	J	ug/l			1
Cyclopentane, Methyl-	169	NJ	ug/l			1
Unknown Cycloalkane	75.4	J	ug/l			1
Unknown	76.7	J	ug/l			1
Unknown Cycloalkane	65.8	J	ug/l			1
Ethylidenecyclobutane	83.2	NJ	ug/l			1
Unknown	72.6	J	ug/l			1
Unknown Cyclohexane	121	J	ug/l			1
Unknown Aromatic	79.4	J	ug/l			1
Unknown Aromatic	87.2	J	ug/l			1
Unknown	142	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	150	Q	70-130
4-Bromofluorobenzene	154	Q	70-130
Dibromofluoromethane	82		70-130

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049347-02 D
 Client ID: MW-3
 Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 11/07/20 11:00
 Date Received: 11/09/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/12/20 21:59
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Cyclohexane	370		ug/l	40	1.1	4
Methyl cyclohexane	320		ug/l	40	1.6	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	93		70-130

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049347-03

Date Collected: 11/07/20 13:00

Client ID: MW-6

Date Received: 11/09/20

Sample Location: 1050-1088 NIAGARA STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 11/12/20 22:22

Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS****Lab ID:** L2049347-03**Date Collected:** 11/07/20 13:00**Client ID:** MW-6**Date Received:** 11/09/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 11/13/20 19:38
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1434172-10					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 11/13/20 19:38
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1434172-10					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 11/13/20 19:38
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1434172-10					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 11/12/20 19:39
 Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1434172-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 11/12/20 19:39
 Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1434172-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/12/20 19:39
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1434172-5					

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

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Lab Number: L2049347

Project Number: T0136-013-005

Report Date: 11/16/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1434172-3 WG1434172-4								
Methylene chloride	99		98		70-130	1		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		100		63-132	10		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	110		100		75-130	10		20
Trichlorofluoromethane	110		100		62-150	10		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		100		67-130	10		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Bromoform	94		98		54-136	4		20
1,1,2,2-Tetrachloroethane	100		110		67-130	10		20
Benzene	110		100		70-130	10		20
Toluene	110		100		70-130	10		20
Ethylbenzene	110		100		70-130	10		20
Chloromethane	110		100		64-130	10		20
Bromomethane	89		88		39-139	1		20
Vinyl chloride	110		100		55-140	10		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2049347

Report Date: 11/16/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1434172-3 WG1434172-4								
Chloroethane	120		110		55-138	9		20
1,1-Dichloroethene	110		100		61-145	10		20
trans-1,2-Dichloroethene	110		100		70-130	10		20
Trichloroethene	110		100		70-130	10		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	110		105		70-130	5		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Styrene	110		110		70-130	0		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	95		99		58-148	4		20
Carbon disulfide	100		99		51-130	1		20
2-Butanone	94		98		63-138	4		20
4-Methyl-2-pentanone	100		110		59-130	10		20
2-Hexanone	98		100		57-130	2		20
Bromochloromethane	110		110		70-130	0		20
1,2-Dibromoethane	100		110		70-130	10		20
1,2-Dibromo-3-chloropropane	93		100		41-144	7		20
Isopropylbenzene	110		100		70-130	10		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE

Lab Number: L2049347

Project Number: T0136-013-005

Report Date: 11/16/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1434172-3 WG1434172-4								
1,2,4-Trichlorobenzene	100		100		70-130	0		20
Methyl Acetate	95		100		70-130	5		20
Cyclohexane	110		100		70-130	10		20
1,4-Dioxane	104		104		56-162	0		20
Freon-113	110		100		70-130	10		20
Methyl cyclohexane	110		100		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	101		99		70-130
Dibromofluoromethane	101		100		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Lab Number: L2049347

Project Number: T0136-013-005

Report Date: 11/16/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1434172-8 WG1434172-9								
Methylene chloride	99		100		70-130	1		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	110		110		67-130	0		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	100		110		70-130	10		20
Bromoform	95		97		54-136	2		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	110		110		70-130	0		20
Toluene	110		110		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	110		110		64-130	0		20
Bromomethane	59		65		39-139	10		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Lab Number: L2049347

Project Number: T0136-013-005

Report Date: 11/16/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1434172-8 WG1434172-9								
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	100		110		70-130	10		20
1,2-Dichlorobenzene	100		110		70-130	10		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	100		110		63-130	10		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	105		110		70-130	5		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Styrene	110		110		70-130	0		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	110		110		58-148	0		20
Carbon disulfide	100		110		51-130	10		20
2-Butanone	100		100		63-138	0		20
4-Methyl-2-pentanone	110		110		59-130	0		20
2-Hexanone	100		110		57-130	10		20
Bromochloromethane	110		110		70-130	0		20
1,2-Dibromoethane	100		110		70-130	10		20
1,2-Dibromo-3-chloropropane	96		100		41-144	4		20
Isopropylbenzene	110		110		70-130	0		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Lab Number: L2049347

Project Number: T0136-013-005

Report Date: 11/16/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1434172-8 WG1434172-9								
1,2,4-Trichlorobenzene	100		100		70-130	0		20
Methyl Acetate	110		110		70-130	0		20
Cyclohexane	110		110		70-130	0		20
1,4-Dioxane	100		102		56-162	2		20
Freon-113	110		110		70-130	0		20
Methyl cyclohexane	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	99		99		70-130

SEMIVOLATILES

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049347-01
 Client ID: TMW-3
 Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 11/07/20 10:00
 Date Received: 11/09/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 11/12/20 06:04
 Analyst: EK

Extraction Method: EPA 3510C
 Extraction Date: 11/11/20 07:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.0	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	6.6		ug/l	5.0	1.2	1
Di-n-butylphthalate	0.56	J	ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS****Lab ID:** L2049347-01**Date Collected:** 11/07/20 10:00**Client ID:** TMW-3**Date Received:** 11/09/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS****Lab ID:** L2049347-01**Date Collected:** 11/07/20 10:00**Client ID:** TMW-3**Date Received:** 11/09/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	107	J	ug/l	1
Unknown	4.18	J	ug/l	1
Unknown	6.11	J	ug/l	1
Unknown	4.33	J	ug/l	1
Unknown	4.58	J	ug/l	1
Unknown Alkane	4.69	J	ug/l	1
Unknown	5.20	J	ug/l	1
Unknown	5.71	J	ug/l	1
Unknown Alkane	7.16	J	ug/l	1
Unknown Benzene	4.04	J	ug/l	1
Cyclic Octaatomic Sulfur	4.47	NJ	ug/l	1
Unknown Organic Acid	10.2	J	ug/l	1
Unknown	15.4	J	ug/l	1
Unknown	19.4	J	ug/l	1
Unknown	4.51	J	ug/l	1
Unknown Amide	6.91	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	31		10-120
4-Terphenyl-d14	66		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049347-01

Date Collected: 11/07/20 10:00

Client ID: TMW-3

Date Received: 11/09/20

Sample Location: 1050-1088 NIAGARA STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270D-SIM

Extraction Date: 11/11/20 07:39

Analytical Date: 11/11/20 17:40

Analyst: ALS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.04	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.23		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.08	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.15		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.17		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.21		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.09	J	ug/l	0.10	0.01	1
Chrysene	0.21		ug/l	0.10	0.01	1
Acenaphthylene	0.04	J	ug/l	0.10	0.01	1
Anthracene	0.08	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.23		ug/l	0.10	0.01	1
Fluorene	0.05	J	ug/l	0.10	0.01	1
Phenanthrene	0.20		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.05	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.16		ug/l	0.10	0.01	1
Pyrene	0.20		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.08	J	ug/l	0.10	0.02	1
Pentachlorophenol	0.21	J	ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049347-01

Date Collected: 11/07/20 10:00

Client ID: TMW-3

Date Received: 11/09/20

Sample Location: 1050-1088 NIAGARA STREET

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	46		10-120
4-Terphenyl-d14	55		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049347-02
 Client ID: MW-3
 Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 11/07/20 11:00
 Date Received: 11/09/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 11/12/20 06:28
 Analyst: EK

Extraction Method: EPA 3510C
 Extraction Date: 11/11/20 07:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.6	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS****Lab ID:** L2049347-02**Date Collected:** 11/07/20 11:00**Client ID:** MW-3**Date Received:** 11/09/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS****Lab ID:** L2049347-02**Date Collected:** 11/07/20 11:00**Client ID:** MW-3**Date Received:** 11/09/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	800	J	ug/l	1
Unknown	65.9	J	ug/l	1
Unknown Cycloalkane	44.0	J	ug/l	1
Unknown Cycloalkane	38.0	J	ug/l	1
Unknown Alkane	55.5	J	ug/l	1
Unknown	58.8	J	ug/l	1
Unknown	65.7	J	ug/l	1
Unknown Alkane	91.7	J	ug/l	1
Indane	46.6	NJ	ug/l	1
Unknown Cycloalkane	52.8	J	ug/l	1
Unknown Alkane	36.0	J	ug/l	1
Unknown	34.8	J	ug/l	1
Unknown	52.3	J	ug/l	1
Unknown Alkane	41.6	J	ug/l	1
Unknown Alkane	45.8	J	ug/l	1
Unknown Cycloalkane	70.4	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	64		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049347-02
 Client ID: MW-3
 Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 11/07/20 11:00
 Date Received: 11/09/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 11/11/20 18:01
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 11/11/20 07:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.35		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.36		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.19		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.23		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.18		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.23		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.12		ug/l	0.10	0.01	1
Chrysene	0.23		ug/l	0.10	0.01	1
Acenaphthylene	0.05	J	ug/l	0.10	0.01	1
Anthracene	0.11		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.13		ug/l	0.10	0.01	1
Fluorene	0.10	J	ug/l	0.10	0.01	1
Phenanthrene	0.30		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.04	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.14		ug/l	0.10	0.01	1
Pyrene	0.38		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.13		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049347-02

Date Collected: 11/07/20 11:00

Client ID: MW-3

Date Received: 11/09/20

Sample Location: 1050-1088 NIAGARA STREET

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	108		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	54		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049347-03
 Client ID: MW-6
 Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 11/07/20 13:00
 Date Received: 11/09/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 11/12/20 06:52
 Analyst: EK

Extraction Method: EPA 3510C
 Extraction Date: 11/11/20 07:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.5	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS****Lab ID:** L2049347-03**Date Collected:** 11/07/20 13:00**Client ID:** MW-6**Date Received:** 11/09/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS****Lab ID:** L2049347-03**Date Collected:** 11/07/20 13:00**Client ID:** MW-6**Date Received:** 11/09/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	34.0	J	ug/l	1
Unknown	3.78	J	ug/l	1
Unknown Organic Acid	1.60	J	ug/l	1
Unknown	2.07	J	ug/l	1
Unknown Alkane	1.64	J	ug/l	1
Unknown	2.54	J	ug/l	1
Unknown Alcohol	2.14	J	ug/l	1
Unknown Alkane	1.60	J	ug/l	1
Unknown Alkane	3.67	J	ug/l	1
Unknown Alkane	4.36	J	ug/l	1
Unknown Benzene	3.27	J	ug/l	1
Unknown	1.53	J	ug/l	1
Unknown Organic Acid	2.29	J	ug/l	1
Unknown	2.00	J	ug/l	1
Unknown	1.53	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	49		10-120
4-Terphenyl-d14	62		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049347-03
 Client ID: MW-6
 Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 11/07/20 13:00
 Date Received: 11/09/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 11/11/20 18:21
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 11/11/20 07:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.01	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.03	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20**SAMPLE RESULTS**

Lab ID: L2049347-03

Date Collected: 11/07/20 13:00

Client ID: MW-6

Date Received: 11/09/20

Sample Location: 1050-1088 NIAGARA STREET

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	58		15-120
2,4,6-Tribromophenol	56		10-120
4-Terphenyl-d14	57		41-149

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/11/20 13:12
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/11/20 04:32

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1432863-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/11/20 13:12
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/11/20 04:32

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1432863-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		21-120
Phenol-d6	67		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	84		41-149

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/11/20 22:25
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 11/11/20 04:32

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1432944-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/11/20 22:25
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 11/11/20 04:32

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1432944-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Tentatively Identified Compounds

Total TIC Compounds	6.62	J	ug/l
Toluene	2.87	NJ	ug/l
Unknown	2.22	J	ug/l
Unknown	1.53	J	ug/l

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 11/11/20 22:25
 Analyst: EK

Extraction Method: EPA 3510C
 Extraction Date: 11/11/20 04:32

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1432944-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	57		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	78		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Lab Number: L2049347

Project Number: T0136-013-005

Report Date: 11/16/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1432863-2 WG1432863-3								
Acenaphthene	73		78		40-140	7		40
2-Chloronaphthalene	76		81		40-140	6		40
Fluoranthene	77		83		40-140	8		40
Hexachlorobutadiene	59		61		40-140	3		40
Naphthalene	71		75		40-140	5		40
Benzo(a)anthracene	76		78		40-140	3		40
Benzo(a)pyrene	91		97		40-140	6		40
Benzo(b)fluoranthene	72		79		40-140	9		40
Benzo(k)fluoranthene	97		99		40-140	2		40
Chrysene	89		96		40-140	8		40
Acenaphthylene	76		80		40-140	5		40
Anthracene	78		94		40-140	19		40
Benzo(ghi)perylene	80		85		40-140	6		40
Fluorene	70		76		40-140	8		40
Phenanthrene	72		77		40-140	7		40
Dibenzo(a,h)anthracene	83		87		40-140	5		40
Indeno(1,2,3-cd)pyrene	77		81		40-140	5		40
Pyrene	78		83		40-140	6		40
2-Methylnaphthalene	70		74		40-140	6		40
Pentachlorophenol	72		108		40-140	40		40
Hexachlorobenzene	69		72		40-140	4		40
Hexachloroethane	82		84		40-140	2		40

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 1050-1088 NIAGARA STREET SITE**Lab Number:** L2049347**Project Number:** T0136-013-005**Report Date:** 11/16/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1432863-2 WG1432863-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		71		21-120
Phenol-d6	61		64		10-120
Nitrobenzene-d5	97		108		23-120
2-Fluorobiphenyl	73		72		15-120
2,4,6-Tribromophenol	65		69		10-120
4-Terphenyl-d14	70		73		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE

Lab Number: L2049347

Project Number: T0136-013-005

Report Date: 11/16/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1432944-2 WG1432944-3								
Bis(2-chloroethyl)ether	58		53		40-140	9		30
3,3'-Dichlorobenzidine	56		59		40-140	5		30
2,4-Dinitrotoluene	64		64		48-143	0		30
2,6-Dinitrotoluene	66		64		40-140	3		30
4-Chlorophenyl phenyl ether	54		55		40-140	2		30
4-Bromophenyl phenyl ether	57		58		40-140	2		30
Bis(2-chloroisopropyl)ether	58		54		40-140	7		30
Bis(2-chloroethoxy)methane	57		54		40-140	5		30
Hexachlorocyclopentadiene	65		55		40-140	17		30
Isophorone	59		58		40-140	2		30
Nitrobenzene	65		62		40-140	5		30
NDPA/DPA	56		59		40-140	5		30
n-Nitrosodi-n-propylamine	61		58		29-132	5		30
Bis(2-ethylhexyl)phthalate	56		57		40-140	2		30
Butyl benzyl phthalate	64		63		40-140	2		30
Di-n-butylphthalate	54		57		40-140	5		30
Di-n-octylphthalate	60		60		40-140	0		30
Diethyl phthalate	53		55		40-140	4		30
Dimethyl phthalate	59		59		40-140	0		30
Biphenyl	62		59		40-140	5		30
4-Chloroaniline	52		50		40-140	4		30
2-Nitroaniline	72		71		52-143	1		30
3-Nitroaniline	58		59		25-145	2		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Lab Number: L2049347

Project Number: T0136-013-005

Report Date: 11/16/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1432944-2 WG1432944-3								
4-Nitroaniline	60		60		51-143	0		30
Dibenzofuran	57		57		40-140	0		30
1,2,4,5-Tetrachlorobenzene	64		59		2-134	8		30
Acetophenone	58		54		39-129	7		30
2,4,6-Trichlorophenol	70		69		30-130	1		30
p-Chloro-m-cresol	66		67		23-97	2		30
2-Chlorophenol	62		58		27-123	7		30
2,4-Dichlorophenol	66		63		30-130	5		30
2,4-Dimethylphenol	57		50		30-130	13		30
2-Nitrophenol	86		82		30-130	5		30
4-Nitrophenol	50		51		10-80	2		30
2,4-Dinitrophenol	82		84		20-130	2		30
4,6-Dinitro-o-cresol	75		75		20-164	0		30
Phenol	47		46		12-110	2		30
3-Methylphenol/4-Methylphenol	60		58		30-130	3		30
2,4,5-Trichlorophenol	68		66		30-130	3		30
Carbazole	60		64		55-144	6		30
Atrazine	73		75		40-140	3		30
Benzaldehyde	58		54		40-140	7		30
Caprolactam	33		33		10-130	0		30
2,3,4,6-Tetrachlorophenol	60		61		40-140	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE

Lab Number: L2049347

Project Number: T0136-013-005

Report Date: 11/16/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1432944-2 WG1432944-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	57		54		21-120
Phenol-d6	49		48		10-120
Nitrobenzene-d5	73		66		23-120
2-Fluorobiphenyl	65		60		15-120
2,4,6-Tribromophenol	89		88		10-120
4-Terphenyl-d14	58		60		41-149

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Serial_No:11162011:25
Lab Number: L2049347
Report Date: 11/16/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2049347-01A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2049347-01B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2049347-01C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2049347-01D	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2049347-01E	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2049347-02A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2049347-02B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2049347-02C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2049347-02D	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2049347-02E	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2049347-03A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2049347-03B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2049347-03C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2049347-03D	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2049347-03E	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

Footnotes

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

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers



Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2049347
Report Date: 11/16/20

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 17

Published Date: 4/28/2020 9:42:21 AM

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Certification Information

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

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**EPA TO-12** Non-methane organics**EPA 3C** Fixed gases**Biological Tissue Matrix:** EPA 3050B

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

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg. **EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

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

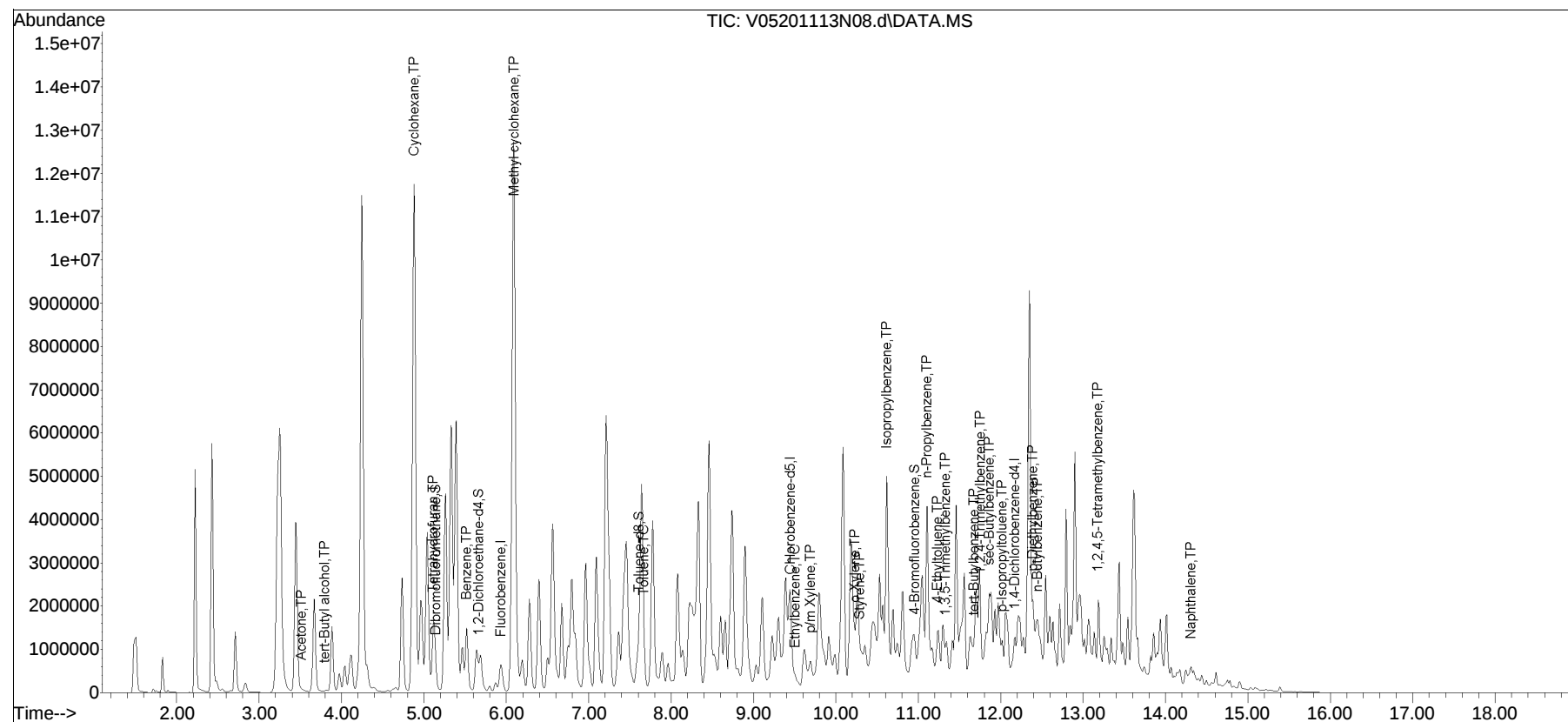
 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 11/10/20		ALPHA Job # L2049317					
		Project Information Project Name: 650-1088 NIAGARA ST SITE Project Location: 1250-1088 NIAGARA ST Project # T0136-013-005 (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☐ ASP-B ☐ EQulS (1 File) ☐ EQulS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO #							
Client Information Client: TURNKEY ENV. REST. Address: 2588 HAMBURG TRPK BUFFALO, NY 14218 Phone: 716-856-2599 Fax: Email: nmunleyabm-hk.com		Project Manager: NATE MUNLEY ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☒ NY ☐ Other:							
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: CAT B						ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)					
Please specify Metals or TAL.						Total Bottles							
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		TEL VOC+TICS TEL SVOC+TICS		Sample Specific Comments	
49317-01		TMW-3		11/7/20 1000		AQUA		CS		X X			
-02		MW-3		↓ 1100		↓		↓		X X			
-03		MW-6		↓ 1300		↓		↓		X X			
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type V A		Preservative B A				Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
		Relinquished By:		Date/Time		Received By:		Date/Time					
		[Signature]		11/8/20 1200 11/9/20 1500		[Signature]		11/9/20 1400 11/10/20 00:25					

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201113N\
 Data File : V05201113N08.d
 Acq On : 13 Nov 2020 8:48 pm
 Operator : VOA105:MKS
 Sample : 12049347-02,31,10,10,,c
 Misc : WG1434172,ICAL17339
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 14 13:57:50 2020
 Quant Method : I:\VOLATILES\VOA105\2020\201113N\V105_201110N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Nov 11 07:40:29 2020
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox01113N\V05201113N01.d•





ANALYTICAL REPORT

Lab Number:	L2029287
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Nate Munley
Phone:	(716) 856-0599
Project Name:	1050-1088 NIAGARA STREET SITE
Project Number:	T0136-013-005
Report Date:	07/20/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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

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



Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2029287-01	TMW-3	WATER	1050-1088 NIAGARA STREET	07/09/20 13:52	07/10/20
L2029287-02	MW-3	WATER	1050-1088 NIAGARA STREET	07/09/20 12:35	07/10/20
L2029287-03	MW-6	WATER	1050-1088 NIAGARA STREET	07/09/20 15:12	07/10/20
L2029287-04	TRIP BLANK		1050-1088 NIAGARA STREET	07/09/20 00:00	07/10/20

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Case Narrative

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

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

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

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

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

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

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Case Narrative (continued)

Report Revision

July 20, 2020: Tentatively Identified Compounds have been added to the Volatile Organics analysis.

Report Submission

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

Sample Receipt

L2029287-04: A sample identified as "TRIP BLANK" was received, but not listed on the Chain of Custody. This sample was not analyzed.

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

Authorized Signature:

Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative

Date: 07/20/20

ORGANICS

VOLATILES

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS**

Lab ID: L2029287-01
 Client ID: TMW-3
 Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 13:52
 Date Received: 07/10/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/14/20 21:03
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS****Lab ID:** L2029287-01**Date Collected:** 07/09/20 13:52**Client ID:** TMW-3**Date Received:** 07/10/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	5.8		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	0.84	J	ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds

Total TIC Compounds	2.19	J	ug/l	1
Unknown Benzene	1.12	J	ug/l	1
Unknown Aromatic	1.07	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	93		70-130



Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS**

Lab ID: L2029287-02
 Client ID: MW-3
 Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 12:35
 Date Received: 07/10/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/15/20 02:28
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	32		ug/l	0.50	0.16	1
Toluene	4.2		ug/l	2.5	0.70	1
Ethylbenzene	2.2	J	ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS****Lab ID:** L2029287-02**Date Collected:** 07/09/20 12:35**Client ID:** MW-3**Date Received:** 07/10/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	6.8		ug/l	2.5	0.70	1
o-Xylene	2.8		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	57		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	340	E	ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	220	E	ug/l	10	0.40	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS****Lab ID:** L2029287-02**Date Collected:** 07/09/20 12:35**Client ID:** MW-3**Date Received:** 07/10/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	1080	J	ug/l	1
Unknown	77.9	J	ug/l	1
Unknown Cyclohexane	106	J	ug/l	1
Unknown	183	J	ug/l	1
Unknown	108	J	ug/l	1
Unknown Aromatic	89.3	J	ug/l	1
Unknown Cycloalkane	91.0	J	ug/l	1
Cyclopentane, Methyl-	207	NJ	ug/l	1
Unknown Aromatic	65.2	J	ug/l	1
Pentane	80.5	NJ	ug/l	1
Unknown Cycloalkane	67.2	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	125		70-130
4-Bromofluorobenzene	128		70-130
Dibromofluoromethane	87		70-130

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS**

Lab ID: L2029287-02 D
 Client ID: MW-3
 Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 12:35
 Date Received: 07/10/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/15/20 18:48
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Cyclohexane	350		ug/l	40	1.1	4
Methyl cyclohexane	210		ug/l	40	1.6	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	106		70-130

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS**

Lab ID: L2029287-03
 Client ID: MW-6
 Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 15:12
 Date Received: 07/10/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/14/20 21:26
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS****Lab ID:** L2029287-03**Date Collected:** 07/09/20 15:12**Client ID:** MW-6**Date Received:** 07/10/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	93		70-130

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/14/20 18:20
 Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1392497-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/14/20 18:20
 Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1392497-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/14/20 18:20
 Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1392497-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	94		70-130

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/15/20 17:34
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1392909-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/15/20 17:34
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1392909-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/15/20 17:34
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1392909-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Lab Number: L2029287

Project Number: T0136-013-005

Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1392497-3 WG1392497-4								
Methylene chloride	100		110		70-130	10		20
1,1-Dichloroethane	110		120		70-130	9		20
Chloroform	100		110		70-130	10		20
Carbon tetrachloride	89		94		63-132	5		20
1,2-Dichloropropane	110		120		70-130	9		20
Dibromochloromethane	92		96		63-130	4		20
1,1,2-Trichloroethane	110		120		70-130	9		20
Tetrachloroethene	92		95		70-130	3		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	110		120		70-130	9		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	100		110		67-130	10		20
trans-1,3-Dichloropropene	100		110		70-130	10		20
cis-1,3-Dichloropropene	100		110		70-130	10		20
Bromoform	82		90		54-136	9		20
1,1,2,2-Tetrachloroethane	120		120		67-130	0		20
Benzene	110		110		70-130	0		20
Toluene	110		110		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	120		120		64-130	0		20
Bromomethane	84		94		39-139	11		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2029287

Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1392497-3 WG1392497-4								
Chloroethane	110		120		55-138	9		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	99		110		70-130	11		20
1,3-Dichlorobenzene	100		110		70-130	10		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	99		100		63-130	1		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	100		105		70-130	5		20
cis-1,2-Dichloroethene	100		110		70-130	10		20
Styrene	105		110		70-130	5		20
Dichlorodifluoromethane	99		100		36-147	1		20
Acetone	110		110		58-148	0		20
Carbon disulfide	100		110		51-130	10		20
2-Butanone	120		120		63-138	0		20
4-Methyl-2-pentanone	120		120		59-130	0		20
2-Hexanone	120		130		57-130	8		20
Bromochloromethane	95		98		70-130	3		20
1,2-Dibromoethane	100		110		70-130	10		20
1,2-Dibromo-3-chloropropane	94		100		41-144	6		20
Isopropylbenzene	110		110		70-130	0		20
1,2,3-Trichlorobenzene	97		100		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2029287

Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1392497-3 WG1392497-4								
1,2,4-Trichlorobenzene	95		100		70-130	5		20
Methyl Acetate	100		110		70-130	10		20
Cyclohexane	110		120		70-130	9		20
1,4-Dioxane	102		114		56-162	11		20
Freon-113	100		100		70-130	0		20
Methyl cyclohexane	100		110		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		111		70-130
Toluene-d8	104		102		70-130
4-Bromofluorobenzene	110		109		70-130
Dibromofluoromethane	96		97		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2029287

Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1392909-3 WG1392909-4								
Methylene chloride	97		95		70-130	2		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	98		100		63-132	2		20
1,2-Dichloropropane	96		100		70-130	4		20
Dibromochloromethane	86		88		63-130	2		20
1,1,2-Trichloroethane	90		90		70-130	0		20
Tetrachloroethene	94		98		70-130	4		20
Chlorobenzene	93		95		75-130	2		20
Trichlorofluoromethane	100		110		62-150	10		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		110		67-130	10		20
Bromodichloromethane	92		95		67-130	3		20
trans-1,3-Dichloropropene	95		92		70-130	3		20
cis-1,3-Dichloropropene	92		92		70-130	0		20
Bromoform	90		88		54-136	2		20
1,1,2,2-Tetrachloroethane	85		87		67-130	2		20
Benzene	89		90		70-130	1		20
Toluene	92		94		70-130	2		20
Ethylbenzene	93		97		70-130	4		20
Chloromethane	110		120		64-130	9		20
Bromomethane	73		64		39-139	13		20
Vinyl chloride	93		92		55-140	1		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2029287

Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1392909-3 WG1392909-4								
Chloroethane	89		87		55-138	2		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	96		98		70-130	2		20
Trichloroethene	92		94		70-130	2		20
1,2-Dichlorobenzene	95		97		70-130	2		20
1,3-Dichlorobenzene	96		98		70-130	2		20
1,4-Dichlorobenzene	94		98		70-130	4		20
Methyl tert butyl ether	88		87		63-130	1		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	90		95		70-130	5		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Styrene	90		95		70-130	5		20
Dichlorodifluoromethane	100		110		36-147	10		20
Acetone	91		100		58-148	9		20
Carbon disulfide	100		98		51-130	2		20
2-Butanone	93		89		63-138	4		20
4-Methyl-2-pentanone	74		72		59-130	3		20
2-Hexanone	65		66		57-130	2		20
Bromochloromethane	100		100		70-130	0		20
1,2-Dibromoethane	88		87		70-130	1		20
1,2-Dibromo-3-chloropropane	78		79		41-144	1		20
Isopropylbenzene	97		100		70-130	3		20
1,2,3-Trichlorobenzene	87		88		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2029287

Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1392909-3 WG1392909-4								
1,2,4-Trichlorobenzene	91		92		70-130	1		20
Methyl Acetate	89		86		70-130	3		20
Cyclohexane	100		100		70-130	0		20
1,4-Dioxane	114		134		56-162	16		20
Freon-113	110		110		70-130	0		20
Methyl cyclohexane	89		92		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		106		70-130
Toluene-d8	98		96		70-130
4-Bromofluorobenzene	97		94		70-130
Dibromofluoromethane	103		104		70-130

SEMIVOLATILES

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS**

Lab ID: L2029287-01
 Client ID: TMW-3
 Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 13:52
 Date Received: 07/10/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 07/16/20 06:27
 Analyst: EK

Extraction Method: EPA 3510C
 Extraction Date: 07/14/20 16:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	7.8		ug/l	3.0	1.5	1
Butyl benzyl phthalate	7.9		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS****Lab ID:** L2029287-01**Date Collected:** 07/09/20 13:52**Client ID:** TMW-3**Date Received:** 07/10/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS****Lab ID:** L2029287-01**Date Collected:** 07/09/20 13:52**Client ID:** TMW-3**Date Received:** 07/10/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	573	J	ug/l	1
Unknown Alcohol	90.9	J	ug/l	1
Unknown	43.3	J	ug/l	1
Unknown	44.9	J	ug/l	1
Unknown	62.4	J	ug/l	1
Unknown	11.8	J	ug/l	1
Unknown	11.3	J	ug/l	1
Unknown	40.0	J	ug/l	1
Unknown Alcohol	37.9	J	ug/l	1
Unknown	9.60	J	ug/l	1
Unknown	33.5	J	ug/l	1
Unknown	26.1	J	ug/l	1
Unknown Organic Acid	54.5	J	ug/l	1
Unknown Siloxane	12.2	J	ug/l	1
Unknown	54.2	J	ug/l	1
Unknown Organic Acid	40.2	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	69		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS**

Lab ID: L2029287-01
 Client ID: TMW-3
 Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 13:52
 Date Received: 07/10/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 07/15/20 18:38
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 07/14/20 16:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.40		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.06	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.20		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.27		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.33		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.14		ug/l	0.10	0.01	1
Chrysene	0.35		ug/l	0.10	0.01	1
Acenaphthylene	0.03	J	ug/l	0.10	0.01	1
Anthracene	0.05	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.31		ug/l	0.10	0.01	1
Fluorene	0.03	J	ug/l	0.10	0.01	1
Phenanthrene	0.29		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.05	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.22		ug/l	0.10	0.01	1
Pyrene	0.35		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.06	J	ug/l	0.10	0.02	1
Pentachlorophenol	0.32	J	ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS**

Lab ID: L2029287-01

Date Collected: 07/09/20 13:52

Client ID: TMW-3

Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	102		10-120
4-Terphenyl-d14	91		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS**

Lab ID: L2029287-02
 Client ID: MW-3
 Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 12:35
 Date Received: 07/10/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 07/16/20 06:50
 Analyst: EK

Extraction Method: EPA 3510C
 Extraction Date: 07/14/20 16:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.0	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS****Lab ID:** L2029287-02**Date Collected:** 07/09/20 12:35**Client ID:** MW-3**Date Received:** 07/10/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS****Lab ID:** L2029287-02**Date Collected:** 07/09/20 12:35**Client ID:** MW-3**Date Received:** 07/10/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	653	J	ug/l			1
Unknown Alkane	50.3	J	ug/l			1
Unknown	33.6	J	ug/l			1
Unknown Cycloalkane	32.8	J	ug/l			1
Unknown Alkane	36.4	J	ug/l			1
Unknown	28.5	J	ug/l			1
Indane	115	NJ	ug/l			1
Unknown	43.8	J	ug/l			1
Unknown Cycloalkane	53.7	J	ug/l			1
Unknown Alkane	29.1	J	ug/l			1
Unknown	24.3	J	ug/l			1
Unknown Alkane	27.4	J	ug/l			1
Unknown	32.8	J	ug/l			1
Unknown	40.7	J	ug/l			1
Unknown	45.4	J	ug/l			1
Unknown Alkane	58.7	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		21-120
Phenol-d6	65		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	101		10-120
4-Terphenyl-d14	84		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS**

Lab ID: L2029287-02
 Client ID: MW-3
 Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 12:35
 Date Received: 07/10/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 07/15/20 18:59
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 07/14/20 16:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.49		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.22		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.12		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.09	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.13		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.06	J	ug/l	0.10	0.01	1
Chrysene	0.12		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.05	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.06	J	ug/l	0.10	0.01	1
Fluorene	0.08	J	ug/l	0.10	0.01	1
Phenanthrene	0.18		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.06	J	ug/l	0.10	0.01	1
Pyrene	0.23		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.07	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS**

Lab ID: L2029287-02

Date Collected: 07/09/20 12:35

Client ID: MW-3

Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	136	Q	23-120
2-Fluorobiphenyl	98		15-120
2,4,6-Tribromophenol	124	Q	10-120
4-Terphenyl-d14	109		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS**

Lab ID: L2029287-03
 Client ID: MW-6
 Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 15:12
 Date Received: 07/10/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 07/16/20 07:13
 Analyst: EK

Extraction Method: EPA 3510C
 Extraction Date: 07/14/20 16:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS****Lab ID:** L2029287-03**Date Collected:** 07/09/20 15:12**Client ID:** MW-6**Date Received:** 07/10/20**Sample Location:** 1050-1088 NIAGARA STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Tentatively Identified Compounds

Total TIC Compounds	20.6	J	ug/l	1
Unknown Organic Acid	2.62	J	ug/l	1
Unknown	3.20	J	ug/l	1
Unknown	1.49	J	ug/l	1
Unknown	2.25	J	ug/l	1
Unknown	4.54	J	ug/l	1
Unknown	3.56	J	ug/l	1
Unknown	2.94	J	ug/l	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS**

Lab ID: L2029287-03

Date Collected: 07/09/20 15:12

Client ID: MW-6

Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		21-120
Phenol-d6	62		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	87		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS**

Lab ID: L2029287-03
 Client ID: MW-6
 Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 15:12
 Date Received: 07/10/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 07/15/20 19:19
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 07/14/20 16:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**SAMPLE RESULTS**

Lab ID: L2029287-03

Date Collected: 07/09/20 15:12

Client ID: MW-6

Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	111		15-120
2,4,6-Tribromophenol	116		10-120
4-Terphenyl-d14	120		41-149

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/15/20 12:53
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/14/20 16:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1392096-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/15/20 12:53
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/14/20 16:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1392096-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Tentatively Identified Compounds

Total TIC Compounds	17.2	J	ug/l
Unknown	3.34	J	ug/l
Unknown	1.64	J	ug/l
Unknown Organic Acid	2.29	J	ug/l
Unknown	1.89	J	ug/l
Unknown	2.87	J	ug/l
Unknown	1.53	J	ug/l
Unknown	1.71	J	ug/l

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 07/15/20 12:53
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 07/14/20 16:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1392096-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	50		15-120
2,4,6-Tribromophenol	50		10-120
4-Terphenyl-d14	63		41-149

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/15/20 11:27
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 07/14/20 16:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1392101-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	0.03	J	ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 07/15/20 11:27
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 07/14/20 16:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1392101-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	99		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE

Lab Number: L2029287

Project Number: T0136-013-005

Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1392096-2 WG1392096-3								
Bis(2-chloroethyl)ether	83		60		40-140	32	Q	30
3,3'-Dichlorobenzidine	73		50		40-140	37	Q	30
2,4-Dinitrotoluene	84		61		48-143	32	Q	30
2,6-Dinitrotoluene	81		52		40-140	44	Q	30
4-Chlorophenyl phenyl ether	67		47		40-140	35	Q	30
4-Bromophenyl phenyl ether	63		44		40-140	36	Q	30
Bis(2-chloroisopropyl)ether	107		75		40-140	35	Q	30
Bis(2-chloroethoxy)methane	81		55		40-140	38	Q	30
Hexachlorocyclopentadiene	63		42		40-140	40	Q	30
Isophorone	84		57		40-140	38	Q	30
Nitrobenzene	96		66		40-140	37	Q	30
NDPA/DPA	69		48		40-140	36	Q	30
n-Nitrosodi-n-propylamine	90		62		29-132	37	Q	30
Bis(2-ethylhexyl)phthalate	119		68		40-140	55	Q	30
Butyl benzyl phthalate	95		63		40-140	41	Q	30
Di-n-butylphthalate	84		56		40-140	40	Q	30
Di-n-octylphthalate	116		68		40-140	52	Q	30
Diethyl phthalate	79		55		40-140	36	Q	30
Dimethyl phthalate	69		46		40-140	40	Q	30
Biphenyl	73		50		40-140	37	Q	30
4-Chloroaniline	72		50		40-140	36	Q	30
2-Nitroaniline	82		56		52-143	38	Q	30
3-Nitroaniline	75		54		25-145	33	Q	30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Lab Number: L2029287

Project Number: T0136-013-005

Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1392096-2 WG1392096-3								
4-Nitroaniline	65		48	Q	51-143	30		30
Dibenzofuran	69		48		40-140	36	Q	30
1,2,4,5-Tetrachlorobenzene	65		45		2-134	36	Q	30
Acetophenone	80		56		39-129	35	Q	30
2,4,6-Trichlorophenol	68		46		30-130	39	Q	30
p-Chloro-m-cresol	78		52		23-97	40	Q	30
2-Chlorophenol	75		54		27-123	33	Q	30
2,4-Dichlorophenol	76		51		30-130	39	Q	30
2,4-Dimethylphenol	69		46		30-130	40	Q	30
2-Nitrophenol	99		66		30-130	40	Q	30
4-Nitrophenol	90	Q	61		10-80	38	Q	30
2,4-Dinitrophenol	84		45		20-130	60	Q	30
4,6-Dinitro-o-cresol	94		65		20-164	36	Q	30
Phenol	57		41		12-110	33	Q	30
3-Methylphenol/4-Methylphenol	81		57		30-130	35	Q	30
2,4,5-Trichlorophenol	69		46		30-130	40	Q	30
Carbazole	71		51	Q	55-144	33	Q	30
Atrazine	73		50		40-140	37	Q	30
Benzaldehyde	76		53		40-140	36	Q	30
Caprolactam	56		41		10-130	31	Q	30
2,3,4,6-Tetrachlorophenol	66		45		40-140	38	Q	30

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1392096-2 WG1392096-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65		48		21-120
Phenol-d6	59		42		10-120
Nitrobenzene-d5	105		75		23-120
2-Fluorobiphenyl	65		43		15-120
2,4,6-Tribromophenol	68		45		10-120
4-Terphenyl-d14	68		48		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2029287

Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1392101-2 WG1392101-3								
Acenaphthene	74		72		40-140	3		40
2-Chloronaphthalene	88		85		40-140	3		40
Fluoranthene	93		88		40-140	6		40
Hexachlorobutadiene	95		94		40-140	1		40
Naphthalene	70		69		40-140	1		40
Benzo(a)anthracene	79		76		40-140	4		40
Benzo(a)pyrene	93		90		40-140	3		40
Benzo(b)fluoranthene	87		80		40-140	8		40
Benzo(k)fluoranthene	101		98		40-140	3		40
Chrysene	94		88		40-140	7		40
Acenaphthylene	97		94		40-140	3		40
Anthracene	85		82		40-140	4		40
Benzo(ghi)perylene	88		83		40-140	6		40
Fluorene	81		76		40-140	6		40
Phenanthrene	73		70		40-140	4		40
Dibenzo(a,h)anthracene	92		87		40-140	6		40
Indeno(1,2,3-cd)pyrene	86		83		40-140	4		40
Pyrene	94		89		40-140	5		40
2-Methylnaphthalene	79		76		40-140	4		40
Pentachlorophenol	60		78		40-140	26		40
Hexachlorobenzene	90		82		40-140	9		40
Hexachloroethane	73		69		40-140	6		40

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1392101-2 WG1392101-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	45		46		21-120
Phenol-d6	45		45		10-120
Nitrobenzene-d5	77		74		23-120
2-Fluorobiphenyl	92		88		15-120
2,4,6-Tribromophenol	103		99		10-120
4-Terphenyl-d14	113		110		41-149

Project Name: 1050-1088 NIAGARA STREET SITE**Lab Number:** L2029287**Project Number:** T0136-013-005**Report Date:** 07/20/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2029287-01A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-01B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-01C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-01D	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2029287-01E	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2029287-02A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-02B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-02C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-02D	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2029287-02E	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2029287-03A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-03B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-03C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-03D	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2029287-03E	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2029287-04A	Vial HCl preserved	A	NA		4.7	Y	Absent		ARCHIVE()
L2029287-04B	Vial HCl preserved	A	NA		4.7	Y	Absent		ARCHIVE()

Project Name: 1050-1088 NIAGARA STREET SITE
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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCS D	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 1050-1088 NIAGARA STREET SITE
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- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration. (DoD and NYSDEC Part 375 PFAS only.)
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: DU Report with 'J' Qualifiers



Project Name: 1050-1088 NIAGARA STREET SITE
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Data Qualifiers

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 17

Published Date: 4/28/2020 9:42:21 AM

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Certification Information

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

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics**EPA 3C** Fixed gases**Biological Tissue Matrix:** EPA 3050B

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

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

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

7/11/20

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APPENDIX F

GROUNDWATER TREATMENT DOCUMENTATION



DAILY LOG	DATE	6	2	21
	NO.			
	SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: 1050-1088 NIAWARA		PROJECT NO: 0136-013-005	
PROJECT LOCATION: "		CLIENT: ELLICOTT	
FIELD ACTIVITY: IN SITU GW INJECTION/TREATMENT			
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:			
TIME	DESCRIPTION		
7 0 0	ON-SITE		
7 3 0	BEGIN MIXING PRODUCT W/ WATER SEE TABLE FOR WATER LEVEL MEASUREMENTS THROUGHOUT DAY		
7 4 0	6 BAGS OF PRODUCT IN WATER + MIXED THOROUGHLY		
740-1000	BEGIN INJECTING INTO MW-5R USING GRAVITY FEED WATER LEVEL FAIRLY STEADY @ ~11-15 fbg's FOR ~25 MINS VERY SLOW ABSORPTION AFTER INITIAL INJECTION CONTINUED TO ADD MIXTURE W/ VALVE 1/4-1/2 OPEN		
1015	MOVE TO MW-3 SAME AS MW-5R. VERY SLOW ABSORPTION AFTER INITIAL INJECTION		
1030-1430	CONTINUED TO SLOWLY ADD PRODUCT AS WATER LEVELS DROPPED TO BETWEEN 10-15 fbg's, ~EVERY 30 MINS		
1500	OFF SITE		
	~80 GALLONS IN MW-5R ~65 " " MW-3		
VISITORS ON SITE: NTM		CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	
WEATHER CONDITIONS: A.M.: SUN 70° LIGHT WIND WSW		IMPORTANT TELEPHONE CALLS:	
P.M.: SUN 80° " " "			
PERSONNEL ON SITE: CMS, MJ			
SIGNATURE: Chad M. Schmidt		DATE: 6/2/21	



DAILY LOG	DATE	6	3	21
	NO.			
	SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: 1250-1088 NIAGARA		PROJECT NO. T0136-013-005	
PROJECT LOCATION: "		CLIENT: ELLICOTT	
FIELD ACTIVITY: IN-SITU GW INJ. TREATMENT			
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:			
TIME	DESCRIPTION		
700	ON SITE		
730-1030	ADDED MIXTURE TO MW-3 w/ VALVE ~1/4-1/2 OPEN. SLOW ABSORPTION. START + STOP INJ. ~30 MIN WHEN WATER LEVEL DROPPED TO ~15 fbg		
1240-1530	MW-5R DID NOT DROP OVERNIGHT, ADDED BUCKETS OF MIXTURE (~2.63 GALLONS) GRADUALLY ADDED 5-GALLON BUCKETS TO MW-3 WHEN WATER LEVELS DROPPED TO ~25 fbg		
	STAGED MIXING TOTES IN AREA WHERE FOR SVE TRAILER WAS LOCATED		
1600	OFF SITE		
	MW-3 ~91 GALLONS TOTAL MW-5R ~82.63 " "		
	FUTURE INJECTIONS WILL BE IN AM + PM w/ 5-GALLON BUCKETS AS WATER LEVELS ALLOW		
VISITORS ON SITE:		CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: GRAVITY FEED NOT WORKING. DUE TO SLOW ABSORPTION. USING 5-GALLON-BUCKETS TO ADD MIXTURE AS WATER LEVELS DROPPED	
WEATHER CONDITIONS:		IMPORTANT TELEPHONE CALLS:	
A.M.: SUN 70° LIGHT WIND WSW			
P.M.: " 85° " " "			
PERSONNEL ON SITE: CMS, MJ			
SIGNATURE: <i>Chad M. Schmitt</i>		DATE: 6/3/21	

RegenOx® Technical Description

RegenOx is an advanced chemical oxidation technology that destroys contaminants through powerful, yet controlled chemical reactions. This product maximizes *in situ* chemical oxidation (ISCO) performance through use of a two-part product system; a sodium percarbonate oxidizer complex activated by a patented surface catalyst system. The technology degrades pollutants through direct oxidation, as well as through the generation of a suite of free radical compounds which in turn oxidize recalcitrant contaminants. RegenOX rapidly and effectively destroys a range of target contaminants including petroleum hydrocarbons and chlorinated compounds.

RegenOx is especially effective in destroying target contaminants present in high concentration source areas within the saturated and vadose zones. For petroleum hydrocarbon treatment, RegenOx produces oxygen as a result of its reactions, providing seamless transition from ISCO to enhanced aerobic bioremediation. RegenOx produces minimal heat when applied, and continues to destroy contaminants for up to 30 days on a single application. RegenOx is safe for use in direct contact with underground utilities, since it is non-corrosive to concrete and most metals.



Close up of RegenOx



- Free Radical Oxidation via production of:
 - Peroxyl Radical ($\text{HO}_2 \bullet$)
 - Hydroxyl Radical ($\text{OH} \bullet$)
 - Superoxide Radical ($\text{O}_2^{\bullet -}$)

For a list of treatable contaminants with the use of RegenOx, view the [Range of Treatable Contaminants Guide](#)

Chemical Composition – Part A Oxidant

- Sodium Percarbonate – CAS #15630-89-4
- Sodium Carbonate Monohydrate - CAS #5968-11-6
- Silicic Acid – CAS #7699-11-6
- Silica Gel – CAS #63231

Chemical Composition – Part B Activator Complex

- Silicic Acid, Sodium Salt, Sodium Silicate - CAS#1344-09-08
- Silica Gel – CAS #63231
- Ferrous Sulfate – CAS #7720-78-7
- Water – CAS#7732-18-5

Properties

- Bulk Density – Part A 0.9-1.2 g/cm³; Part B – 1.39 g/cm³
- pH - 10-11 per recommended mixing ratios (3-5% oxidant in solution)
- Solubility – Oxidant - 14.5 g/100 g water; Activator – miscible in water
- Appearance – Brown to orange-brown when mixed with water
- Odor – Not detectable
- Vapor Pressure – None
- Non-hazardous

RegenOx® Technical Description

Storage and Handling Guidelines

Storage

- Store in a cool, dry place out of heat/direct sunlight
- Store at temperatures not to exceed 40°C/104°F
- Store in original tightly closed container
- Store in a well-ventilated place
- Do not store near combustible materials
- Store away from incompatible materials
- Protect from contamination
- Provide appropriate exhaust ventilation in places where dust is formed

Handling

- Minimize dust generation and accumulation
- Observe good industrial hygiene practices
- Keep away from clothing and combustible materials
- Take any precaution to avoid mixing with combustibles
- Avoid contact with eyes
- Do not taste or swallow
- Do not eat, drink or smoke nearby
- Wear appropriate personal protective equipment
- Wash hands thoroughly after handling
- Avoid release to the environment

Applications

RegenOx is applied using direct-injection techniques or wells. The application process enables the two- part product to be combined, then pressure-injected into the zone of contamination and moved out into the aquifer media. Application instructions for this product are contained in the [RegenOx Application Instructions Guide](#).

Health and Safety

Material is relatively safe to handle; however, we recommend avoiding contact with eyes, skin and clothing. OSHA Level D personal protection equipment including vinyl or rubber gloves, eye protection and dust mask are recommended when handling this product. Please review the Material Safety Data Sheet for additional storage, packaging, usage, and handling requirements here: [RegenOx Part A SDS](#) and [RegenOx Part B SDS](#).