Periodic Review Report

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

July 2019 0136-013-005

Prepared For: 9271 Group, LLC

Prepared By:

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
TURNKEY ENVIRONMENTAL RESTORATION, LLC

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PERIODIC REVIEW REPORT

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1.0 INTRODUCTION

Benchmark Environmental Engineering and Science, 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 has been completed for the Site (see Appendix A).

This PRR and the associated inspection forms (have been completed for the December 29, 2017 to April 29, 2019 reporting period.

1.1 Site Background

The Site consists of three (3) adjoining parcels, identified as 1050, 1054, and 1088 Niagara Street, totaling 2.7 acres, located in the City of Buffalo, Erie County, New York. The Site is currently improved with an existing building located on the 1050-1054 Niagara Street parcels; a recently constructed building and parking lot on the 1088 Niagara Street parcel; and associated parking and 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 (IR/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 Modifications

9271 Group, LLC subdivided the three (3) individual parcels into two (2) tax parcels for redevelopment purposes. Copies of the municipal records and survey are provided in Appendix A.

Original parcels

- 1050 Niagara Street; SBL 99.49-6-2;
- 1054 Niagara Street; SBL 99.49-6-10;
- 1088 Niagara Street, SBL 99.41-1-15;

Subdivided parcels

- 1050 Niagara Street – SBL yet to be assigned by Erie Co.; 2.03 acres (Parcel "1" on survey)
- 1088 Niagara Street, SBL 99.41-1-15.1; 0.67 aces (Parcel "2" on survey)

1.4 Compliance

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

1.5 Recommendations

Based on the performance of the SVE system, it is recommended to modify the SVE System operation from continuous to intermittent pulsed operation. Details provided below.

No other changes are recommended at this time.

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 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.

Groundwater sample analytical results are summarized on Table 1. Groundwater contaminant concentrations including TICs show a decreasing trend after construction of the cover and SVE systems. Groundwater levels have decreased, particularly on the 1088 Niagara portion of the Site after completion of the cover system. The cover system is in place and effective in limiting exposure to underlying remaining contamination.

The completed IC/EC Certification form and site photographs are included in Appendix A and Appendix B, respectively. SVE Inspection logs are included in Appendix C; and, Long-term groundwater monitoring results are summarized on Table 1, included in Appendix D.

4.0 SITE MANAGEMENT PLAN

A 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 is comprised of three (3) SVE wells, one (1) vacuum monitoring point (VMP), and SVE remedial system in an enclosed trailer. SVE system emissions are controlled using two (2) vapor-phase granulated active carbon (GAC) vessels.

Installation of the SVE system was completed between June and September 2017. System startup and optimization was completed between September and November 2017.

Routine SVE system monitoring was completed during the reporting period, including field measurements of system influent, system and effluent photoionization detector (PID), vacuum readings on the SVE wells and VMP, and routine system maintenance. Influent PID readings have decreased since start up to low-levels and effluent air PID readings have consistently been 0.0 ppm. No condensate has been detected in the knockout tank. System shutdown due to weather related issues (freezing) and electrical issues are noted on the system inspection log (see Appendix C).

SVE System Operation Modification

Based on the low-level steady state influent concentrations to the SVE system, it is recommended to modify the SVE System operation from continuous to an intermittent (pulsed) operation. Pulsed operation would include shutting off the SVE System for a 14-day period. After 14-days, the SVE would be restarted with vacuum being applied to one (1) well for approximately 2-4 weeks with the other two (2) wells closed. Vacuum application

would be rotated between the wells in an effort to enhance volatilization into the pore space during non-vacuum intervals and increase volatile removal rates. Field vacuum and PID measurements will be recorded and influent air sampling will be completed after the initial restart.

4.1.2 Long-Term Groundwater Monitoring Plan

Long-term groundwater monitoring (LTGWM) has been conducted during the reporting period, with sampling completed on November 2017, May 2018 and April 2019; and one (1) sampling event during Fall 2018 was not completed in accordance with the SMP.

Groundwater analytical results are summarized on Table 1. Analytical results show a decreasing trend in constituent concentrations, including TICs, since completion of the IRMs and remedial actions.

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.

The next sampling event is planned for the September-October 2019.

4.1.3 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 during routine O&M of the SVE System. The property is being used in accordance with the Restricted Residential Use (mixed-use commercial 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.

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

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 requirmement of the BCAs 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 has been operated maintained.
- Cover System – The cover system, including buildings, concrete sidewalks, asphalt, and landscaped vegetated areas are being maintained in 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:

- Modify operation of the SVE System from continuous to intermittent pulsed operation.

- No other changes are recommended at this time.

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.

TABLE

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

1050-1088 NIAGARA STREET SITE

BUFFALO, NEW YORK

Parameters [1]	Class GA GWQS[2]	TMW-3						MW-3				
		11/9/14	2/12/15	5/1/17	11/15/17	5/12/18	4/6/19	2/12/15	5/8/17	11/15/17	5/12/18	4/6/19
Volatile Organic Compounds (VOCs) - ug/L				D					D	D	D	D
1,1 Dichloroethane	**5**	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND
1,2,4-Trimethylbenzene	**5**	ND	ND	ND	ND	ND	ND	0.83 J	ND	ND	ND	ND
1,3,5-Trimethylbenzene	**5**	ND	ND	ND	ND	ND	ND	**100 D**	ND	ND	ND	ND
2-Butanone (MEK)	**50**	ND	1.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	**50**	ND	ND	ND	ND	ND	ND	7.6	ND	ND	ND	ND
4-Isopropyltoluene	**5**	ND	0.62 J	ND	ND	ND	ND	**54 D**	ND	ND	ND	ND
Acetone	**50**	ND	4.1 J	ND	ND	2.4 J	ND	21	ND	ND	ND	ND
Benzene	**1**	ND	ND	ND	ND	ND	ND	**67 D**	**7.9**	**10**	**31**	**39**
Carbon disulfide	**60**	ND	ND	ND	ND	ND	ND	0.37 J	ND	ND	ND	ND
Cyclohexane	**--**	75	66	2.8 J	0.9 J	0.47 J	ND	1000 D	70	100	160	260
Ethylbenzene	**5**	ND	1.5	ND	ND	ND	ND	**30 D**	ND	ND	ND	ND
Isopropylbenzene	**5**	**91**	**87**	**9.8 J**	1.3 J	1.4 J	0.72 J	**200 D**	**36**	**44**	**27**	**60**
Methylcyclohexane	**--**	130	90	5.7 J	2.1 J	0.96 J	0.46 J	1200 D	170	210	210	230
Methylene Chloride	**5**	2.6 J,B	ND	ND	ND	ND	ND	**18**	ND	ND	ND	ND
n-Butylbenzene	**5**	**20**	**17**	ND	ND	ND	ND	**54 D**	ND	ND	ND	ND
n-Proplybenzene	**5**	**100**	**98**	**13 J**	ND	ND	ND	**200 D**	ND	ND	ND	ND
sec-Butylbenzene	**5**	ND	**21**	ND	ND	ND	ND	**50 D**	ND	ND	ND	ND
tert-butylbenzene	**5**	ND	2.8	ND	ND	ND	ND	2.6	ND	ND	ND	ND
Toluene	**5**	ND	1.9	ND	ND	ND	ND	**7.1**	ND	ND	2.4 J	4.2 J
Xylene, Total	**5**	ND	1.6 J	ND	ND	ND	ND	**13 J, D**	ND	2.1 J	3.6 J	**6.2 J**
Total VOCs	--	418.6	393.22	31.3	4.3	5.23	1.18	3039.2	283.9	366.1	434	599.4
VOCs Tentatively Identified Compounds (TICs)- ug/L												
Benzene, cyclopropyl-	--	--	160 NJ	ND	ND	ND	ND	29 NJ	ND	ND	ND	ND
Benzene, 1-methyl-2-(1-methylethyl)-	--	--	140 NJ	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
Benzene, 1,2,3-trimethyl-	--	--	ND	ND	ND	ND	ND	50 NJ	ND	ND	ND	ND
Benzene, 1,2,3,4-tetramethyl-	--	--	49 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	93.4 NJ
Cyclohexane,1,1-dimethyl-	--	--	ND	ND	3.84 NJ	ND	ND	ND	ND	ND	ND	ND
Cyclohexane,1,1,3-trimethyl-	--	--	ND	ND	4.14 NJ	3.09 NJ	ND	ND	71.6 J	ND	ND	ND
Cyclopentane, methyl-	--	--	ND	ND	ND	ND	ND	83 NJ	ND	77.3 NJ	87.4 NJ	150 NJ
Cyclopentane, 1,3-dimethyl-	--	--	ND	ND	ND	ND	ND	ND	ND	ND	89.2 NJ	ND
1,4-Pentadiene, 3,3-dimethyl-	--	--	ND	ND	ND	ND	ND	26 NJ	ND	ND	ND	ND
Isopropylcyclobutane	--	--	130 NJ	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
Cyclohexane,4-methyl-	--	--	ND	ND	ND	ND	ND	21 NJ	ND	ND	ND	ND
Cyclohexane, ethyl-	--	--	54 NJ	16.6 NJ	ND	ND	ND	33 NJ	ND	ND	ND	ND
Cyclobutane, (1-methylethylidene)-	--	--	ND	ND	ND	ND	ND	30 NJ	ND	ND	ND	ND
Cyclohexene, 1-methyl-	--	--	ND	ND	ND	ND	ND	37 NJ	ND	ND	ND	ND
Indan, 1-methyl-	--	--	68 NJ	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
Hexane	--	--	ND	ND	ND	ND	ND	19 NJ	ND	ND	ND	ND
1-Pentane	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	153 NJ
Pentane, 2-methyl-	--	--	ND	ND	ND	ND	ND	ND	ND	94.3 NJ	111 NJ	ND
Pentane, 3-methyl-	--	--	ND	ND	ND	ND	ND	ND	ND	65.4 NJ	ND	62.8 NJ
Indane	--	--	ND	ND	ND	ND	ND	ND	124 J	ND	ND	ND
Pentane	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	47 NJ
Unknown Benzene	--	--	ND	43.8 J	ND	4.57 J	1.31 J	ND	ND	ND	ND	ND
Unknown Aromatic	--	--	ND	48.8 J	7.35 J	5.53 J	4.03 J	ND	62.9 J	39.7 J	77.3 J	124.9 J
Unknown Cyclohexane	--	--	ND	21.2 J	10.84 J	ND	4.91 J	ND	164 J	141.6 J	159 J	90.7 J
Unknown Cycloalkane	--	--	ND	ND	7.75 J	8.17 J	1.1 J	ND	ND	180.1 J	238.1 J	174.4 J
Unknown	--	--	52 J	18.4 J	3.41 J	5.16 J	1.29 J	45 J	508.8 J	98.4 J	164.1 J	ND
Total TICs	--	--	977	149	37.3	26.5	12.6	373	931	697	926	896
Semivolatile Organic Compounds (SVOCs) - ug/L												
2-Methylnaphthalene	**--**	44	--	--	--	ND	ND	ND	--	--	0.04 J	0.06 J
Acenaphthene	**20**	ND	--	--	--	ND	ND	ND	--	--	0.07 J	0.13
Acenaphthylene	**--**	ND	--	--	--	ND	ND	ND	--	--	ND	0.02 J
Acetophenone	**--**	27	--	--	--	ND	ND	86 J	--	--	ND	ND
Anthracene	**50**	0.7 J	--	--	--	0.02 J	ND	ND	--	--	0.05 J	0.06 J
Benzaldehyde	**--**	ND	--	--	--	ND	ND	ND	--	--	ND	ND
Benzo(a)anthracene	**0.002**	**0.46 J**	--	--	--	ND	ND	ND	--	--	**0.09 J**	**0.1 J**
Benzo(a)pyrene	**ND**	**0.66 J**	--	--	--	**0.03 J**	**0.04 J**	ND	--	--	**0.08 J**	**0.07 J**
Benzo(b)fluoranthene	**0.002**	**1.5 J**	--	--	--	**0.04 J**	**0.04 J**	ND	--	--	**0.13**	**0.08 J**
Benzo(ghi)perylene	**--**	0.67 J	--	--	--	0.02 J	0.03 J	ND	--	--	0.04 J	0.05 J
Benzo(k)fluoranthene	**0.002**	ND	--	--	--	**0.02 J**	**0.04 J**	ND	--	--	**0.05 J**	**0.07 J**
Benzoic acid	**--**	ND	--	--	--	ND	ND	ND	--	--	ND	ND
Bis(2-ethylhexyl) phthalate	**5**	**6.7 B**	--	--	--	**8.2 B**	ND	ND	--	--	**7.2 B**	3.6
Carbazole	**--**	ND	--	--	--	ND	ND	ND	--	--	ND	ND
Chrysene	**0.002**	**0.49 J**	--	--	--	ND	**0.04 J**	ND	--	--	**0.13**	ND
Dibenzo(a,h)anthracene	**--**	ND	--	--	--	ND	ND	ND	--	--	ND	0.01 J
Dibenzofuran	**--**	0.95 J	--	--	--	ND	ND	ND	--	--	ND	ND
Diethyl phthalate	**50**	ND	--	--	--	0.73 J	ND	ND	--	--	ND	ND
Di-n-butylphthalate	**50**	ND	--	--	--	ND	ND	ND	--	--	ND	2.6 J
Fluoranthene	**50**	1.3 J	--	--	--	0.07 J	0.07 J	ND	--	--	0.23	0.22
Fluorene	**50**	1.2 J	--	--	--	0.02 J	ND	ND	--	--	0.06 J	0.07 J
Indeno(1,2,3-cd)pyrene	**0.002**	**0.64 J**	--	--	--	**0.02 J**	**0.03 J**	ND	--	--	**0.05 J**	**0.04 J**
Isophorone	**50**	37	--	--	--	ND	ND	ND	--	--	ND	ND
Naphthalene	**10**	9.6	--	--	--	ND	ND	ND	--	--	ND	0.59
Pentachlorophenol	**1**	--	--	--	--	ND	ND	ND	--	--	0.11 J	ND
Phenanthrene	**50**	2.5 J	--	--	--	0.07 J	0.05 J	ND	--	--	0.2	0.24
Phenol	**1**	ND	--	--	--	ND	ND	ND	--	--	**1.6 J**	ND
Pyrene	**50**	1 J	--	--	--	0.06 J	0.07 J	ND	--	--	0.22	0.22
Total SVOCs	--	136.37	--	--	--	9.3	0.41	86	--	--	10.35	8.23
SVOCs Tentatively Identified Compounds (TICs)- ug/L												
1-Phenyl-1-butene	--	--	--	--	--	ND	ND	230 JN	--	--	ND	ND
Aldol Condensates	--	--	--	--	--	34 J	188.3 J	ND	--	--	ND	375.3 J
Benzene, 1,2,4,-trimethyl-	--	--	--	--	--	ND	ND	280 JN	--	--	ND	ND
Benzene, 1-ethyl-2-methyl-	--	--	--	--	--	ND	ND	180 JN	--	--	ND	ND
Benzene, 1-methyl-2-(1-methylethyl)-	--	--	--	--	--	ND	ND	220 JN	--	--	ND	ND
Benzene, 1,4-diethyl-	--	--	--	--	--	ND	ND	180 JN	--	--	ND	ND
Benzene, propyl-	--	--	--	--	--	ND	ND	150 JN	--	--	ND	ND
Cyclohexan, 1,1,2,3-tetramethyl-	--	--	--	--	--	ND	ND	170 JN	--	--	ND	ND
Cyclohexane, 1,1,3-trimethyl-	--	--	--	--	--	ND	ND	120 JNB	--	--	ND	ND
Indane	--	--	--	--	--	ND	ND	200 JN	--	--	ND	ND
Octane, 2,6-dimethyl-	--	--	--	--	--	ND	ND	150 JN	--	--	ND	ND
Octane, 3-methyl-	--	--	--	--	--	ND	ND	140 JN	--	--	ND	ND
Unknown Alkane	--	--	--	--	--	ND	ND	ND	--	--	40.6 J	271.9 J
Unknown Benzene	--	--	--	--	--	ND	ND	ND	--	--	63.1 J	42.8 J
Unknown Cycloalkane	--	--	--	--	--	ND	ND	ND	--	--	13.7 J	ND
Unknown Cyclohexane	--	--	--	--	--	ND	ND	ND	--	--	ND	92.2 J
Unknown Organic Acid	**--**	--	--	--	--	161.49 J	1.45 J	ND	--	--	ND	ND
Unknown	**--**	--	--	--	--	9.99 J	12.21 J	1200 J	--	--	216.4 J	237.7 J
Total TICs	**--**	--	--	--	--	205	202	3220	--	--	334	1020

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.
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 = Estimated concentration for Tentatively Identified Compounds (TICs),
B = Compund was found in the blank
BOLD = Result exceeds GWQS.

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TURNKEY ENVIRONMENTAL RESTORATION, LLC

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

1050-1088 NIAGARA STREET SITE

BUFFALO, NEW YORK

Parameters [1]	Class GA GWQS [2]	MW-4					MW-5R			MW-6			
		2/12/15	5/8/17	11/15/17	5/12/18	4/6/19	11/15/17	5/12/18	4/6/19	11/9/14	11/15/17	5/12/18	4/6/19
Volatile Organic Compounds (VOCs) - ug/L				DRY	DRY	DRY	DRY	DRY	DRY				
1,1 Dichloroethane	**5**	0.59 J	ND	--	--	--	--	--	--	ND	ND	ND	ND
1,2,4-Trimethylbenzene	**5**	**12 D**	ND	--	--	--	--	--	--	ND	ND	ND	ND
1,3,5-Trimethylbenzene	**5**	**9.2 J, D**	ND	--	--	--	--	--	--	ND	ND	ND	ND
2-Butanone (MEK)	**50**	6.5 J	ND	--	--	--	--	--	--	ND	ND	ND	ND
2-Hexanone	**50**	4.9 J	ND	--	--	--	--	--	--	ND	ND	ND	ND
4-Isopropyltoluene	**5**	2.4	ND	--	--	--	--	--	--	ND	ND	ND	ND
Acetone	**50**	17	5.4	--	--	--	--	--	--	ND	ND	ND	ND
Benzene	**1**	**370 D**	**66**	--	--	--	--	--	--	ND	ND	ND	ND
Carbon disulfide	**60**	1	ND	--	--	--	--	--	--	ND	ND	ND	ND
Cyclohexane	**--**	240 D	33	--	--	--	--	--	--	ND	ND	ND	ND
Ethylbenzene	**5**	**6.2**	0.75 J	--	--	--	--	--	--	ND	ND	ND	ND
Isopropylbenzene	**5**	**120 D**	**9**	--	--	--	--	--	--	ND	ND	ND	ND
Methylcyclohexane	**--**	240 D	14	--	--	--	--	--	--	ND	ND	ND	ND
Methylene Chloride	**5**	5	ND	--	--	--	--	--	--	ND	ND	ND	ND
n-Butylbenzene	**5**	**23 D**	ND	--	--	--	--	--	--	ND	ND	ND	ND
n-Proplybenzene	**5**	**130 D**	ND	--	--	--	--	--	--	ND	ND	ND	ND
sec-Butylbenzene	**5**	**25 D**	ND	--	--	--	--	--	--	ND	ND	ND	ND
tert-butylbenzene	**5**	3	ND	--	--	--	--	--	--	ND	ND	ND	ND
Toluene	**5**	**12 D**	1.2 J	--	--	--	--	--	--	ND	ND	ND	ND
Xylene, Total	**5**	**19 J, D**	1 J	--	--	--	--	--	--	ND	ND	ND	ND
Total VOCs	1000	1263.79	130.35	--	--	--	--	--	--	--	--	--	--
VOCs Tentatively Identified Compounds (TICs)- ug/L													
Butane, 2-Methyl-	**--**	ND	2.22 NJ	--	--	--	--	--	--	--	--	ND	ND
Benzene, cyclopropyl-	**--**	150 NJ	ND	--	--	--	--	--	--	--	--	ND	ND
Benzene, 1-methyl-2-(1-methylethyl)-	**--**	120 NJ	ND	--	--	--	--	--	--	--	--	ND	ND
Cyclohexane,1,1,3-trimethyl-	**--**	ND	2.46 NJ	--	--	--	--	--	--	--	--	ND	ND
Cyclopentane	**--**	48 NJ	ND	--	--	--	--	--	--	--	--	ND	ND
Cyclopentane, methyl-	**--**	81 NJ	14.9 NJ	--	--	--	--	--	--	--	--	ND	ND
Cyclohexane,4-methyl-	**--**	ND	4.35 NJ	--	--	--	--	--	--	--	--	ND	ND
Cyclohexane, ethyl-	**--**	56 NJ	ND	--	--	--	--	--	--	--	--	ND	ND
Cyclobutane, (1-methylethylidene)-	**--**	39 NJ	ND	--	--	--	--	--	--	--	--	ND	ND
Cyclohexene, 1-methyl-	**--**	ND	ND	--	--	--	--	--	--	--	--	ND	ND
Cyclohexene, 3-methyl-	**--**	66 NJ	ND	--	--	--	--	--	--	--	--	ND	ND
Cyclohexene, 4-methyl-	**--**	47 NJ	ND	--	--	--	--	--	--	--	--	ND	ND
Indan, 1-methyl-	**--**	194 NJ	ND	--	--	--	--	--	--	--	--	ND	ND
Indane	**--**	ND	26 NJ	--	--	--	--	--	--	--	--	ND	ND
Pentane	**--**	ND	1.79 NJ	--	--	--	--	--	--	--	--	ND	ND
Unknown Benzene	**--**	ND	11.92 J	--	--	--	--	--	--	--	--	ND	ND
Unknown Aromatic	**--**	ND	13.58 J	--	--	--	--	--	--	--	--	ND	ND
Unknown Cycloalkane	**--**	ND	4.06 J	--	--	--	--	--	--	--	--	ND	ND
Unknown	**--**	ND	17.01 J	--	--	--	--	--	--	--	--	1.41 J	ND
Total TICs	**--**	801	98.3 J	--	--	--	--	--	--	--	--	1.41	ND
Semi-volatile Organic Compounds (SVOCs) - ug/L													
2-Methylnaphthalene	**--**	0.94 J	--	--	--	--	--	--	--	ND	--	ND	ND
Acetophenone	**--**	6	--	--	--	--	--	--	--	ND	--	ND	ND
Benzaldehyde	**--**	ND	--	--	--	--	--	--	--	0.54 J,B	--	ND	ND
Bis(2-ethylhexyl) phthalate	**5**	ND	--	--	--	--	--	--	--	4.5 J,B	--	**6.4 B**	ND
Chrysene	**0.002**	ND	--	--	--	--	--	--	--	ND	--	ND	**0.02 J**
Fluorene	**50**	0.7 J	--	--	--	--	--	--	--	ND	--	ND	0.03 J
Phenanthrene	**50**	0.63 J	--	--	--	--	--	--	--	ND	--	ND	0.07 J
Total SVOCs	**--**	8.27	--	--	--	--	--	--	--	5.04	--	6.4	0.12
SVOCs Tentatively Identified Compounds (TICs)- ug/L													
1h-Indene, 2,3-dihydro-5-methyl-	--	17 NJ	--	--	--	--	--	--	--	--	--	ND	ND
Aldol Condensates	--	ND	--	--	--	--	--	--	--	--	--	31.7 J	226.5 J
Benzene, 1-ethyl-2,3-dimethyl-	--	52 NJ	--	--	--	--	--	--	--	--	--	ND	ND
Benzene, (1-methylethyl)-	--	31 NJ	--	--	--	--	--	--	--	--	--	ND	ND
Benzene, (1-methylpropyl)-	--	15 NJ	--	--	--	--	--	--	--	--	--	ND	ND
Benzene, 1,2,4,5-tetramethyl-	--	38 NJ	--	--	--	--	--	--	--	--	--	ND	ND
Benzene, 1,3-diethyl-	--	16 NJ	--	--	--	--	--	--	--	--	--	ND	ND
Benzene, 1,4-diethyl-	--	23 NJ	--	--	--	--	--	--	--	--	--	ND	ND
Benzene, propyl-	--	30 NJ	--	--	--	--	--	--	--	--	--	ND	ND
Erucylamide		19 NJB	--	--	--	--	--	--	--	--	--	ND	ND
Indane		80 NJ	--	--	--	--	--	--	--	--	--	ND	ND
n-Hexadecanoic acid		16 NJB	--	--	--	--	--	--	--	--	--	ND	ND
Unknown Organic Acid	**--**	ND	--	--	--	--	--	--	--	--	--	ND	1.93 J
Unknown	**--**	318 JB	--	--	--	--	--	--	--	--	--	ND	1.64 J
Total TICs	**--**	655	--	--	--	--	--	--	--	--	--	31.7	238

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.
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.

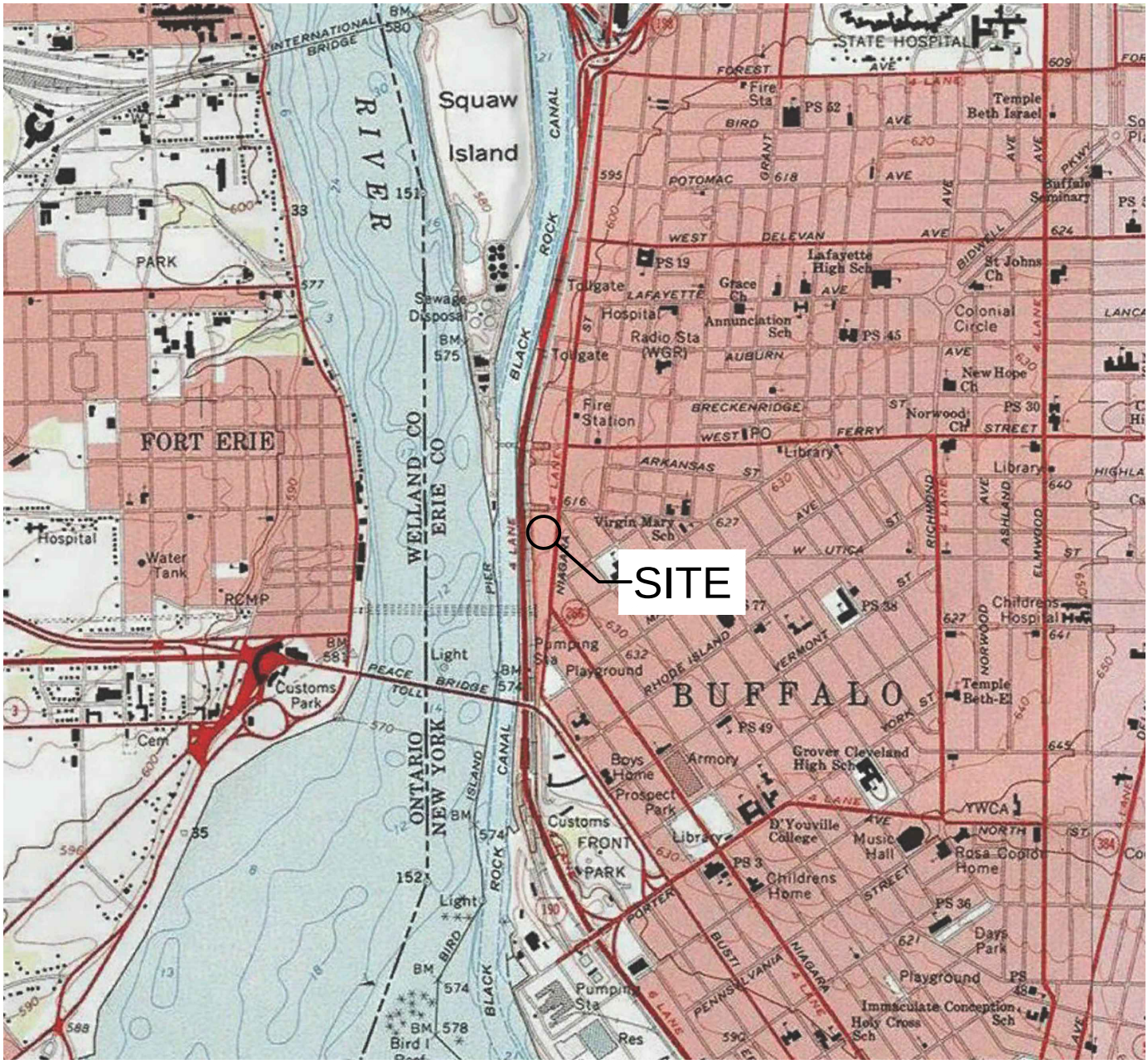
Qualifiers:

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 = Estimated concentration for Tentatively Identified Compounds (TICs),
B = Compund was found in the blank and sample.
BOLD = Result exceeds GWQS.

FIGURES

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

FIGURE 1



N

2000' 0' 2000' 4000'

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

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
IN ASSOCIATION WITH
TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

PROJECT NO.: 0136-013-005

DATE: MAY 2019

DRAFTED BY: CMS

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

F:\CAD\TurnKey\Ellicott Development\1050-1088 Niagara St\PRR\Figure 2 - Site Plan (Aerial).dwg

DATE: MAY 2019
DRAFTED BY: CMS

LEGEND:

BCP SITE BOUNDARY

PARCEL BOUNDARY

NOTE:

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

SCALE: 1 INCH = 50 FEET
SCALE IN FEET
(approximate)

50' 0' 50' 100'

N

FIGURE 2

SITE PLAN (AERIAL)

PERIODIC REVIEW REPORT

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

PREPARED FOR

9271 GROUP, LLC

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

IN ASSOCIATION WITH

TURNKEY ENVIRONMENTAL RESTORATION, LLC

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

JOB NO.: 0136-013-005

F:\CAD\TurnKey\Ellicott Development\1050-1088 Niagara St\PRR\Figure 3 - Cover System Layout.dwg

LEGEND:

- BCP PROPERTY BOUNDARY
- PARCEL BOUNDARY
- FENCE
- RAILROAD
- BUILDING
- SOIL COVER AREA
- STONE COVER AREA
- CONCRETE AREA

N

50' 0' 50' 100'

SCALE: 1 INCH = 50 FEET
SCALE IN FEET
(approximate)

DATE: MAY 2019
DRAFTED BY: CMS

BENCHMARK Environmental Engineering & Science, PLLC
TURNKEY Environmental Restoration, LLC
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

JOB NO.: 0136-013-005

COVER SYETM LAYOUT

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

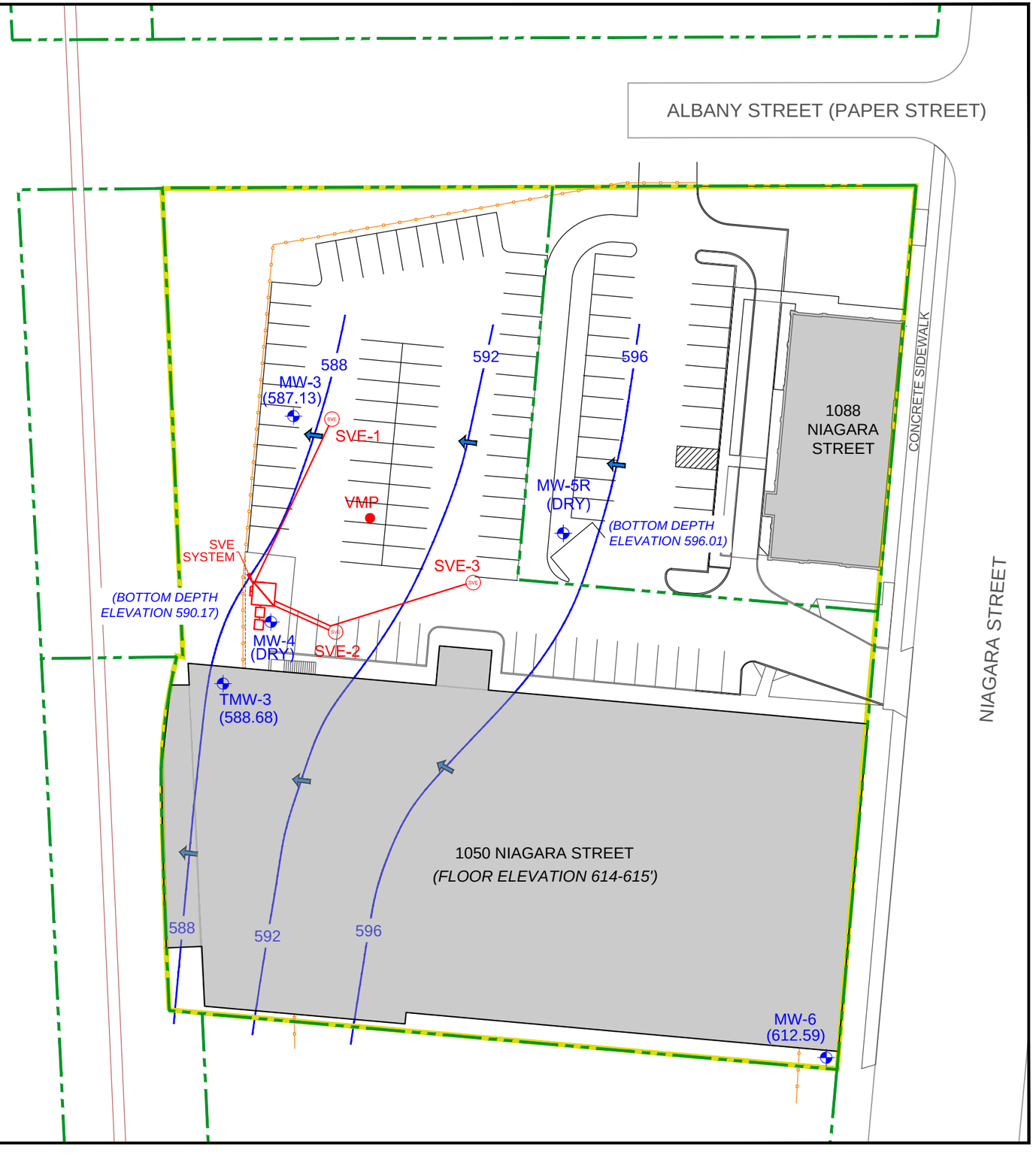
FIGURE 3

F:\CAD\TurnKey\Ellicott Development\1050-1088 Niagara St\PRR\Figure 4; Groundwater Monitoring Wells and Isopotential Map.dwg

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 APRIL 9, 2019



N

50' 0' 50' 100'

SCALE: 1 INCH = 50 FEET
SCALE IN FEET
(approximate)

DATE: MAY 2019
DRAFTED BY: CMS

BENCHMARK Environmental Engineering & Science, PLLC
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

TURNKEY Environmental Restoration, LLC

JOB NO.: 0136-013-005

GROUNDWATER AND SVE WELL NETWORK

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

FIGURE 4

APPENDIX A

INSTITUTIONAL & ENGINEERING CONTROLS CERTIFICATION FORM

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

Site Details **Box 1**

Site No. **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: December 29, 2017 to April 29, 2019

	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? See Figure 2	☑	☐
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/ECs 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

Parcel	Owner	Institutional Control
99.49-1-15	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

99.49-6-10	9271 Group, LLC	
		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

99.49-6-2	9271 Group, LLC	
		Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan IC/EC Plan Building Use Restriction Monitoring 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

Parcel	Engineering Control
99.49-1-15	
	Cover System Air Sparging/Soil Vapor Extraction Monitoring Wells

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

99.49-6-10	
	Cover System

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

99.49-6-2	
	Cover System Monitoring Wells

Parcel	Engineering Control
• 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 certification;

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

YES	NO
☑	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

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

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

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

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

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

YES	NO
☑	☐

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

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 (print name) at 9271 Group, LLC (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

7/23/19
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

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

I Thomas H. Forbes, P.E. at Benchmark Environmental Engineering 2558 Hamburg Tpke Buffalo, NY 14218,

print name print business address

am certifying as a Professional Engineer for the Remedial Party

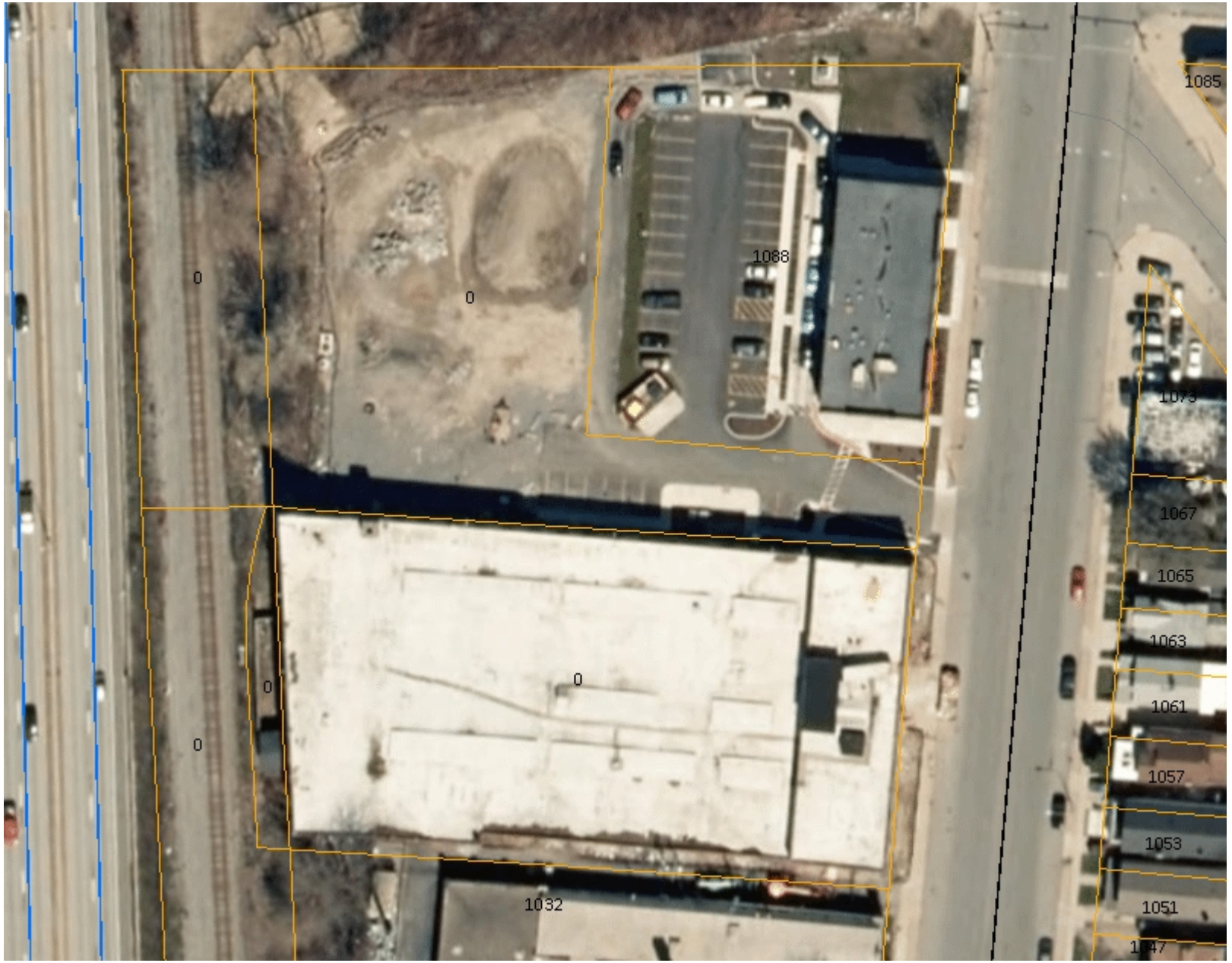
(Owner or Remedial Party)

STATE OF NEW YORK THOMAS H. FORBES LICENSED PROFESSIONAL ENGINEER No. 70950-1 (Required for PE)

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

Date

Erie County On-Line Mapping Application



Legend

- Parcels
- Streets and Highways
  - Interstate
  - Primary State Road
  - Secondary State Road
  - County Road
  - Local Road

0 0.02 0.0 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere
THIS MAP IS NOT TO BE USED FOR NAVIGATION

ERIE COUNTY
DEPARTMENT OF ENVIRONMENT & PLANNING
OFFICE OF GIS

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

1: 1,128

Erie County On-Line Mapping System
Parcel Detail Report

Report generated:
6/10/2019 9:15:16 AM

Parcel Overview Map

Parcel Detail Map

PIN: 140200099410000101510O

SBL: 99.41-1-15.1

Address: 1088 NIAGARA

Owner 1: 9271 GROUP LLC

Owner 2:

Mailing Address: 295 MAIN ST

City/Zip: BUFFALO NY 14203

Municipality: City of Buffalo

Property Class: 482

Class Description: C - Det row bldg

Front: 188.92

Depth: 163.05

Deed Roll: 1

Deed Book: 11316

Deed Page: 9724

Deed Date:

Acreage: 0.67238189955

Total Assessment: $1,080,000

Land Assessment: $46,000

County Taxes: $1,080,000

Town Taxes: $0

School Taxes: $0

Village Taxes: $0

School District: CITY OF BUFFALO

Year Built: 0

Sqft Living Area: 0

Condition: 0

Heating: 0

Basement: 0

Fireplace: 0

Beds: 0

Baths: 0

Erie County On-Line Mapping System
Parcel Detail Report

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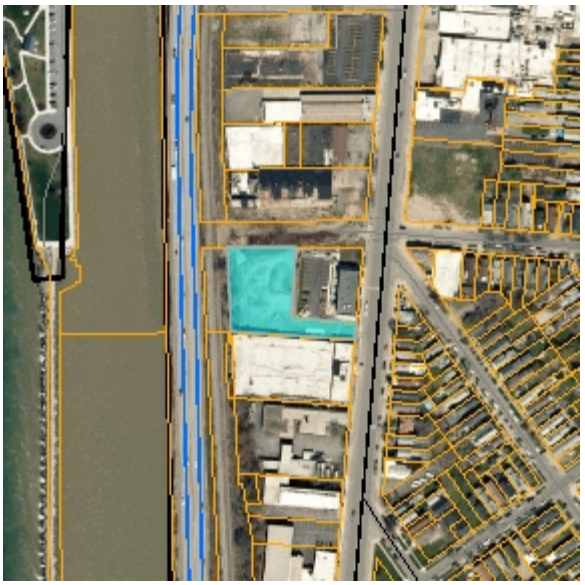

Parcel Overview Map

Parcel Detail Map

PIN: 140200099410000101520O

SBL: 99.41-1-15.2

Address: 0

Owner 1:

Owner 2:

Mailing Address:

City/Zip:

Municipality: City of Buffalo

Property Class: 0

Class Description: -

Front: 0

Depth: 0

Deed Roll: 0

Deed Book:

Deed Page:

Deed Date:

Acreage: 0.91808836374

Total Assessment: $0

Land Assessment: $0

County Taxes: $0

Town Taxes: $0

School Taxes: $0

Village Taxes: $0

School District:

Year Built: 0

Sqft Living Area: 0

Condition: 0

Heating: 0

Basement: 0

Fireplace: 0

Beds: 0

Baths: 0

Erie County On-Line Mapping System
Parcel Detail Report

Report generated:
6/10/2019 9:16:50 AM

Parcel Overview Map

Parcel Detail Map

PIN: 1402000994900006002000

SBL: 99.49-6-2

Address: 0

Owner 1:

Owner 2:

Mailing Address:

City/Zip:

Municipality: City of Buffalo

Property Class: 0

Class Description: -

Front: 0

Depth: 0

Deed Roll: 0

Deed Book:

Deed Page:

Deed Date:

Acreage: 1.07874269997

Total Assessment: $0

Land Assessment: $0

County Taxes: $0

Town Taxes: $0

School Taxes: $0

Village Taxes: $0

School District:

Year Built: 0

Sqft Living Area: 0

Condition: 0

Heating: 0

Basement: 0

Fireplace: 0

Beds: 0

Baths: 0

Erie County On-Line Mapping System
Parcel Detail Report

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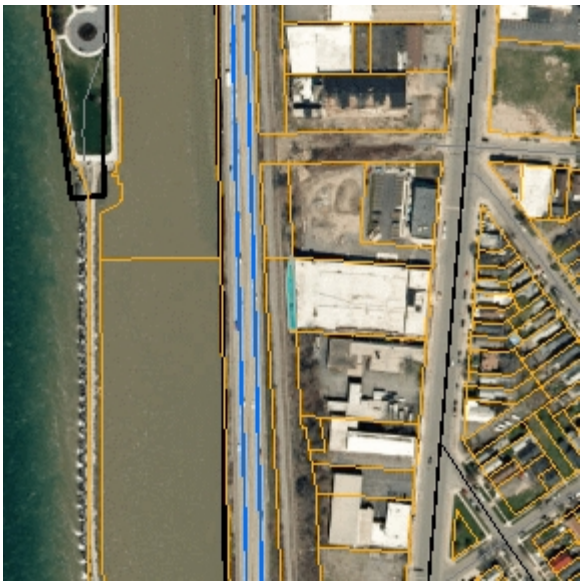


Parcel Overview Map

Parcel Detail Map

PIN: 140200099490000601000O

SBL: 99.49-6-10

Address: 0

Owner 1:

Owner 2:

Mailing Address:

City/Zip:

Municipality: City of Buffalo

Property Class: 0

Class Description: -

Front: 0

Depth: 0

Deed Roll: 0

Deed Book:

Deed Page:

Deed Date:

Acreage: 0.05079049442

Total Assessment: $0

Land Assessment: $0

County Taxes: $0

Town Taxes: $0

School Taxes: $0

Village Taxes: $0

School District:

Year Built: 0

Sqft Living Area: 0

Condition: 0

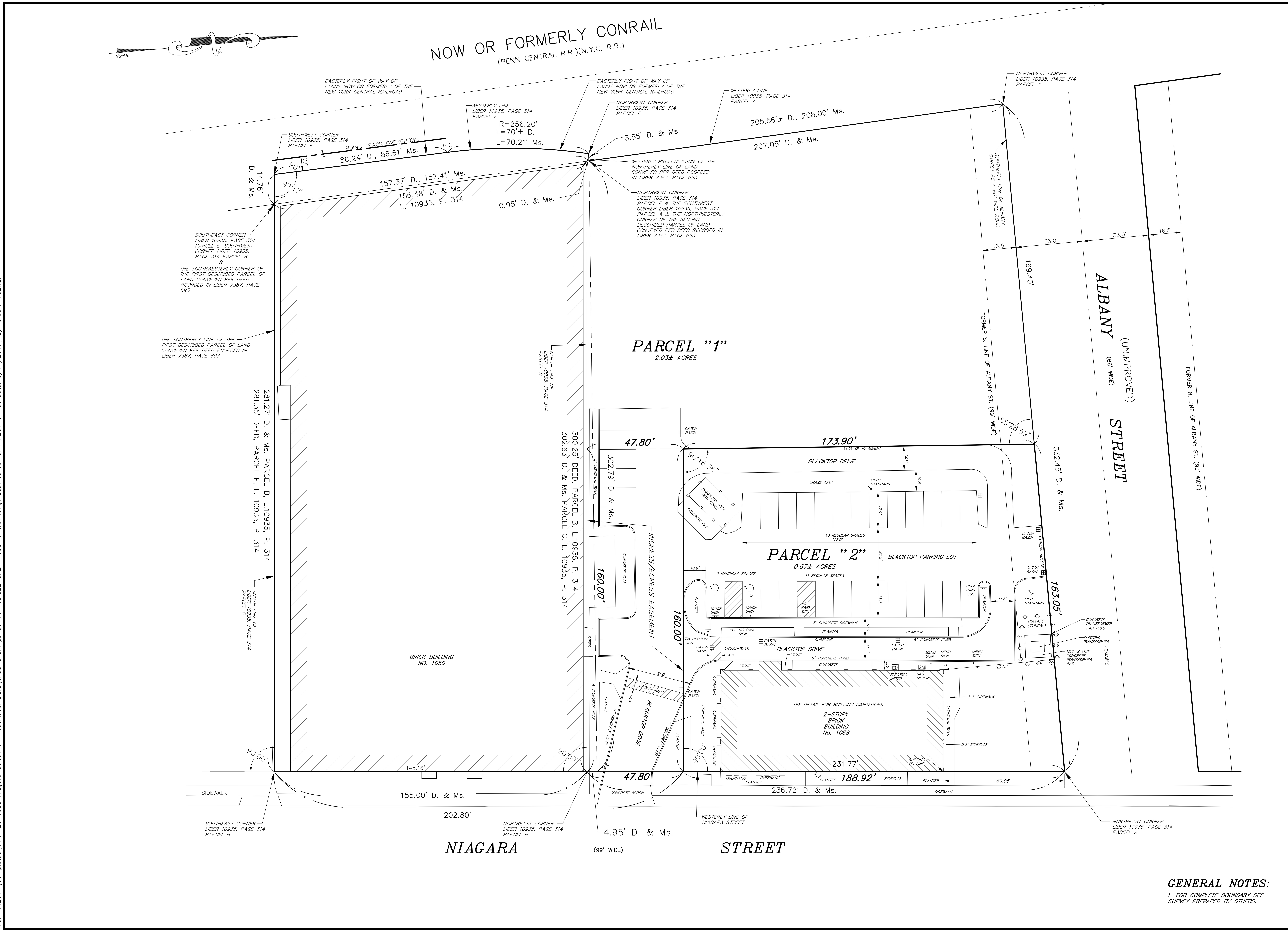
Heating: 0

Basement: 0

Fireplace: 0

Beds: 0

Baths: 0


North
NOW OR FORMERLY CONRAIL
(PENN CENTRAL R.R.)(N.Y.C. R.R.)
EASTERLY RIGHT OF WAY OF LANDS NOW OR FORMERLY OF THE NEW YORK CENTRAL RAILROAD
WESTERLY LINE LIBER 10935, PAGE 314 PARCEL E
R=256.20'
L=70'± D.
L=70.21' Ms.
SOUTHWEST CORNER LIBER 10935, PAGE 314 PARCEL E
SIDING TRACK OVERGROWN
86.24' D., 86.61' Ms.
157.37' D., 157.41' Ms.
156.48' D. & Ms.
L. 10935, P. 314
0.95' D. & Ms.
14.76' D. & Ms.
NORTHWEST CORNER LIBER 10935, PAGE 314 PARCEL E
3.55' D. & Ms.
WESTERLY LINE LIBER 10935, PAGE 314 PARCEL A
205.56'± D., 208.00' Ms.
207.05' D. & Ms.
WESTERLY PROLONGATION OF THE NORTHERLY LINE OF LAND CONVEYED PER DEED RECORDED IN LIBER 7387, PAGE 693
NORTHWEST CORNER LIBER 10935, PAGE 314 PARCEL E & THE SOUTHWEST CORNER LIBER 10935, PAGE 314 PARCEL A & THE NORTHWESTERLY CORNER OF THE SECOND DESCRIBED PARCEL OF LAND CONVEYED PER DEED RCORDED IN LIBER 7387, PAGE 693
NORTHWEST CORNER LIBER 10935, PAGE 314 PARCEL A
SOUTHERLY LINE OF ALBANY STREET AS A 66' WIDE ROAD
16.5'
33.0'
33.0'
16.5'
169.40'
ALBANY (UNIMPROVED) (66' WIDE) STREET
FORMER S. LINE OF ALBANY ST. (99' WIDE)
FORMER N. LINE OF ALBANY ST. (99' WIDE)
SOUTHEAST CORNER LIBER 10935, PAGE 314 PARCEL E, SOUTHWEST CORNER LIBER 10935, PAGE 314 PARCEL B & THE SOUTHWESTERLY CORNER OF THE FIRST DESCRIBED PARCEL OF LAND CONVEYED PER DEED RCORDED IN LIBER 7387, PAGE 693
THE SOUTHERLY LINE OF THE FIRST DESCRIBED PARCEL OF LAND CONVEYED PER DEED RCORDED IN LIBER 7387, PAGE 693
281.27' D. & Ms. PARCEL B, L.10935, P. 314
281.35' DEED, PARCEL E, L. 10935, P. 314
SOUTH LINE OF LIBER 10935, PAGE 314 PARCEL B
NORTH LINE OF LIBER 10935, PAGE 314 PARCEL B
PARCEL "1"
2.03± ACRES
300.25' DEED, PARCEL B, L.10935, P. 314
302.63' D. & Ms. PARCEL C, L. 10935, P. 314
302.79' D. & Ms.
47.80'
160.00'
INGRESS/EGRESS EASEMENT
160.00'
BRICK BUILDING NO. 1050
173.90'
90°46'36"
85°28'59"
BLACKTOP DRIVE
GRASS AREA
LIGHT STANDARD
DUMPSTER AREA WITH FENCE
CONCRETE PAD
13 REGULAR SPACES
PARCEL "2"
0.67± ACRES
BLACKTOP PARKING LOT
2 HANDICAP SPACES
11 REGULAR SPACES
CATCH BASIN
PARKING ACCESS
DRIVE THRU SIGN
PLANTER
LIGHT STANDARD
BOLLARD (TYPICAL)
332.45' D. & Ms.
163.05'
CONCRETE TRANSFORMER PAD 0.8'S.
ELECTRIC TRANSFORMER
12.7' X 11.2' CONCRETE TRANSFORMER PAD
REMAINS
5' CONCRETE SIDEWALK
"O" NO PARK SIGN
TIM HORTONS SIGN
CROSS-WALK
CURBLINE
6" CONCRETE CURB
MENU SIGN
55.02'
ELECTRIC METER
GAS METER
8.0' SIDEWALK
SEE DETAIL FOR BUILDING DIMENSIONS
2-STORY BRICK BUILDING No. 1088
5.2' SIDEWALK
BUILDING ON LINE
231.77'
188.92'
145.16'
90°00'
90°00'
90°00'
47.80'
SIDEWALK
155.00' D. & Ms.
236.72' D. & Ms.
59.95'
202.80'
CONCRETE APRON
SOUTHEAST CORNER LIBER 10935, PAGE 314 PARCEL B
NORTHEAST CORNER LIBER 10935, PAGE 314 PARCEL B
4.95' D. & Ms.
WESTERLY LINE OF NIAGARA STREET
NORTHEAST CORNER LIBER 10935, PAGE 314 PARCEL A
NIAGARA (99' WIDE) STREET

GENERAL NOTES:

1. FOR COMPLETE BOUNDARY SEE SURVEY PREPARED BY OTHERS.

File: N:\2014\Completed\14NY123 1088 Niagara Street\4 - Technical Data\CADD Drawings\59710-PARCEL-SPLIT 1088 NIAGARA.dwg, Last saved: 5/17/2017, Plot Date: 5/17/2017, By: GRANT MCEWEN

REV	DESCRIPTION	DATE	BY
1	REVISED PER REQUEST	5-16-17	GEM

KHEOPS ARCHITECTURE, ENGINEERING & SURVEY, DPC
300 Pearl Street, Suite 100
Buffalo, New York 14202
P. 716.648.8739
F. 716.856.0981
WWW.KHEOPSDPC.COM

Designed by: MT
Drawn by: WHW
Checked by: DRH
Dwg Scale: Horiz: 1"=20' Vert:
Field Date: --------
Office Date: 2-15-17
Job No. 16NY158
Book: 391
Page: 60
Map: 59710-SPLIT
File Name: 59710-SPLIT 59710-AS BUILT

CITY OF BUFFALO COUNTY OF ERIE NEW YORK

PARCEL SPLIT No.'s 1050-1088 NIAGARA STREET BEING PART OF LOTS 1, 2, 3, 4, 5 OF THE STEVENS SURVEY

MAP NUMBER:
59710-SPLIT
Sheet 1 of 1

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 – facing southeast

Photo 2: View of the existing asphalt parking area/cover system – facing southwest

Photo 3: View of the asphalt cover and stone cover transition area with the existing SVE trailer (right) – facing south

Photo 4: View of a typical transition area of asphalt parking/cover system and stabilized vegetated cover along the northern portion of the Site – facing west

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Photo 5: View of vegetated cover and drive-thru area along the northern portion of the Site – facing east

Photo 6: View of landscaping and drive-thru area – facing north

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

Photo 8: View of the stabilized bank along the northern portion of the Site at Albany Street – facing west

SITE PHOTOGRAPHS

Photo 9:

Photo 10:

Photo 11:

Photo 12:

Photo 9: View of the stabilized bank at the northwest corner of the Site – facing southeast (storm sewer is offsite)

Photo 10: View of the stabilized bank and stone cover south of the existing 1050 Niagara Street building – facing east

Photo 11: View of the exterior of the existing SVE trailer and piping configuration – facing southeast

Photo 12: View of the exterior of the existing SVE trailer, piping configuration, and activated carbon vessels – facing northeast

SITE PHOTOGRAPHS

Photo 13:

Photo 14:

Photo 15:

Photo 16:

Photo 13: View of well location SVE-3 – facing northwest

Photo 14: View of well location SVE-1 – facing west

Photo 15: View of interior of MW-3 (typical)

Photo 16: View of well location MW-6 – facing northeast

APPENDIX C

SVE SYSTEM INSPECTION LOGS

1050-1088 NIAGARA STREET SITE
SVE SYSTEM LOG
SHEET 1 OF 2

Date	Time	Inspector's Initials	System Running on Arrival? (Y or N)	Intake Vacuum at Knockout (in. WC)	Air Flow Gauge (in.WC)	Velocity (FPS)	Approx Flow CFM	Pressure Gauge (exhaust) (in. WC)	Influent PID Reading (PPM)	Effluent PID Reading (PPM)	Greased Blower? (Y or N)	Condensate Water Present (Y or N)
9/6/2017	16:11	BMG	Y	90	1	3976	195	3	0.4	0	Y	N
9/8/2017	9:00	BMG	N	70	0.62	3080	151	1.8	0	0	N	N
9/12/2017	8:00	BMG	Y	70	0.6	3080	151	1.8	0.1	0	N	N
9/20/2017	15:45	BMG	Y	70	0.62	3080	151	1.8	0	0	N	N
9/25/2017	12:00	NAS	Y	70	0.58	3080	151	1.8	0	0	Y	N
10/30/2017	14:26	NAS	Y	70	0.51	3080	151	1.8	0	0	N	N
11/2/2017	8:00	NAS	N	79	0.1	1129	55.81	0.01	2.2	0	N	N
11/2/2017	10:50	NAS	Y	70	0.1	1257	61	0.01	16.7	0	N	N
11/3/2017	10:00	NAS	Y	84	0.1	1257	61	0.01	0	0	N	N
11/6/2017	15:25	NAS	N	66	0.1	1257	61	0.01	0	0	N	N
11/7/2017	8:00	NAS	Y	67	0.2	1778	87.25	0.01	0	0	N	N
11/22/2017	15:15	NAS	Y	65	0.1	1257	61	0.01	0	0	N	N
11/27/2017	13:00	CMS	Y	70	0.1	1124	55	0.01	0	0	N	N
12/16/2017	11:00	CMS	Y	72	0.1	1257	61	0.01	0	0	N	N
12/20/2017	13:23	CMS	Y	74	0.1	1124	55	0.01	0.1	0	N	N
1/9/2018	12:16	NAS	Y	78	0.1	1124	55	0.01	0	0	Y	N
1/18/2018	14:16	NAS	Y	76	0.1	1124	55	0.02	0.2	0	N	N
2/9/2018	13:05	NAS	N	79	0.1	1257	61	0.01	0	0	Y	N
2/21/2018	9:00	NAS	N	61	0.1	1257	61	0.01	0	0	Y	N
3/14/2018	8:00	NAS	N	20	0.1	1257	61	0.01	0	0	Y	N
3/14/2018	9:00	NAS	Y	44	0.1	1257	61	0.01	0	0	N	N
3/15/2018	15:15	NAS	Y	45	0.1	1257	61	0.01	0	0	N	N
3/21/2018	14:45	CMS	Y	65	0.1	1257	61	0.01	0	0	N	N
3/30/2018	15:15	CMS	Y	64	0.1	1257	61	0.01	0	0	Y	N
4/18/2018	15:10	CMS	Y	25	0.1	1257	61	0.01	0	0	N	N
4/30/2018	16:15	CMS	Y	27	0.1	1257	61	0.01	0	0	Y	N
5/13/2018	12:30	CMS	Y	27	0.1	1257	61	0.01	0	0	N	N
5/30/2018	15:00	CMS	Y	41	0.1	1257	61	0.01	0	0	N	N
6/18/2018	15:45	CMS	Y	41	0.1	1257	61	0.01	0	0	Y	N
6/28/2018	16:05	CMS	Y	41	0.1	1257	61	0.01	0	0	N	N
7/12/2018	16:30	CMS	N	41	0.1	1257	61	0.01	0	0	Y	N
7/19/2018	8:15	CMS	Y	26	0.1	1257	61	0.01	0	0	N	N
7/31/2018	16:15	CMS	Y	35	0.1	1257	61	0.01	0	0	Y	N
8/4/2018	10:30	CMS	Y	50	0.1	1257	61	0.01	0	0	N	N
9/4/2018	16:40	CMS	Y	45	0.1	1257	61	0.01	0	0	Y	N
9/20/2018	9:55	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
10/11/2018	16:11	CMS	Y	57	0.1	1257	61	0.01	0	0	N	N
10/20/2018	10:15	CMS	Y	55	0.1	1257	61	0.01	0	0	N	N
10/26/2018	9:15	CMS	Y	56	0.1	1257	61	0.01	0	0	Y	N
11/2/2018	8:00	CMS	Y	61	0.1	1257	61	0.01	0	0	N	N
11/5/2018	16:15	CMS	Y	65	0.1	1257	61	0.01	0	0	N	N
11/16/2018	16:30	CMS	Y	59	0.1	1257	61	0.01	0	0	N	N
11/17/2018	9:00	CMS	Y	62	0.1	1257	61	0.01	0	0	Y	N
11/21/2018	17:00	CMS	Y	57	0.1	1257	61	0.01	0	0	N	N
11/27/2018	17:00	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
12/5/2018	17:00	CMS	N	54	0.1	1257	61	0.01	0	0	Y	N
12/6/2018	17:00	CMS	Y	62	0.1	1257	61	0.01	0	0	N	N
12/13/2018	17:00	CMS	Y	63	0.1	1257	61	0.01	0	0	N	N
12/17/2018	17:00	CMS	Y	61	0.1	1257	61	0.01	0	0	Y	N
12/20/2018	17:00	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
12/22/2018	10:30	CMS	Y	61	0.1	1257	61	0.01	0	0	N	N
12/27/2018	16:15	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
1/2/2019	16:30	CMS	Y	63	0.1	1257	61	0.01	0	0	Y	N
1/4/2019	16:30	CMS	Y	58	0.1	1257	61	0.01	0	0	N	N
1/7/2019	8:00	CMS	N	52	0.1	1257	61	0.01	0	0	Y	N
1/8/2019	8:00	CMS	Y	63	0.1	1257	61	0.01	0	0	N	N
1/14/2019	16:15	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
1/23/2019	17:00	CMS	Y	59	0.1	1257	61	0.01	0	0	Y	N
1/26/2019	9:00	CMS	Y	62	0.1	1257	61	0.01	0	0	Y	N
1/29/2019	17:00	CMS	Y	58	0.1	1257	61	0.01	0	0	N	N
2/4/2019	10:15	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
2/7/2019	17:00	CMS	Y	62	0.1	1257	61	0.01	0	0	Y	N
2/15/2019	16:30	CMS	Y	58	0.1	1257	61	0.01	0	0	N	N
2/18/2019	10:15	CMS	N	51	0.1	1257	61	0.01	0	0	Y	N
2/20/2019	17:00	CMS	Y	62	0.1	1257	61	0.01	0	0	N	N
3/1/2019	16:15	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
3/4/2019	8:00	CMS	Y	61	0.1	1257	61	0.01	0	0	Y	N
3/12/2019	16:15	CMS	Y	61	0.1	1257	61	0.01	0	0	N	N
3/16/2019	10:00	CMS	Y	62	0.1	1257	61	0.01	0	0	Y	N
3/22/2019	17:00	CMS	Y	56	0.1	1257	61	0.01	0	0	N	N
3/29/2019	17:00	CMS	Y	60	0.1	1257	61	0.01	0	0	Y	N
4/3/2019	8:00	CMS	N	55	0.1	1257	61	0.01	0	0	Y	N
4/4/2019	8:00	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
4/10/2019	16:30	CMS	Y	52	0.1	1257	61	0.01	0	0	N	N
4/12/2019	17:00	CMS	Y	58	0.1	1257	61	0.01	0	0	Y	N
4/19/2019	8:00	CMS	Y	62	0.1	1257	61	0.01	0	0	N	N

4/22/2019	8:00	CMS	Y	65	0.1	1257	61	0.01	0	0	N	N
4/24/2019	16:15	CMS	Y	60	0.1	1257	61	0.01	0	0	Y	N
5/3/2019	16:30	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
5/6/2019	16:00	CMS	Y	54	0.1	1257	61	0.01	0	0	N	N
5/7/2019	16:00	CMS	Y	52	0.1	1257	61	0.01	0	0	N	N
5/8/2019	16:00	CMS	Y	66	0.1	1257	61	0.01	0	0	Y	N
5/13/2019	16:00	CMS	Y	64	0.1	1257	61	0.01	0	0	N	N
5/16/2019	16:00	CMS	Y	66	0.1	1257	61	0.01	0	0	N	N
5/17/2019	16:00	CMS	Y	69	0.1	1257	61	0.01	0	0	N	N
5/18/2019	10:30	CMS	Y	70	0.1	1257	61	0.01	0	0	Y	N

NOTES :	
9/6/2017	Start system at 13:00
9/8/2017	EOS = overload protection (too much AMPs) maybe a power outage too. May need to be below 13.28 AMPs
9/8/2017	left system 12.7 A, 25 Hz, 755 RPM, 99 V
9/12/2017	system at 12.5 A, 25 Hz, 755 RPM, 99 V, no influenced VMP, had 0.1" H2O at MW-4
2/21/2018	EOS Error restore system turned down AMP to 12
3/9/2018	power to trailer is off
3/14/2018	restarted system 9.5 AMPs - running very slow, will tweak next time, testing if it runs
	turned up to 12 AMPs running better
3/15/2018	EOS error turned AMPs to 10.2 let run
7/12/2018	Turned back on, set AMPs to 10.3
7/16/2018	System running at 9.8 A
7/31/2018	Hot inside trailer, greased blower, motor seems to be running loud, turned fan on, ran at 10.4 A
8/4/2018	Oiled motor
8/31/2018	System running, sounds a little better, added more oil, running at 10.2 A
12/15/2018	restarted at 9.8 AMPS
1/7/2019	restarted at 9.6 AMPS
2/18/2019	restarted at 9.6 AMPS
4/3/2019	no power. Breaker inside building reconfigured and was in off position. Breaker is no in sub-basement location.
5/6 and 5/7/2019	Blower seems to be running a little slow. Added oil. Intake a little low. AMPs at 9.3. Will check 5/8…OK

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TURNKEY ENVIRONMENTAL RESTORATION, LLC

1050-1088 NIAGARA STREET SITE
SVE SYSTEM LOG
SHEET 2 OF 2

Date	Time	Inspector's Initials	SVE #1 (in.WC)	SVE #2 (in.WC)	SVE #3 (in.WC)	VMP (in.WC)	MW-3 (in.WC)	MW-4 (in.WC)	MW-5r (in.WC)
9/6/2017	16:10	BMG	88	89	88	0	NA	0	NA
10/30/2017	14:30	NAS	79	77	77	0	NA	0	1.1
11/2/2017	10:00	NAS	0	66.8	0	0	0	0	0
11/3/2017	10:00	NAS		84					
11/6/2017	15:28	NAS	64	0.5	0.2	0	0	0	0
11/7/2017	8:00	NAS	63	64	66	0	0	0	0
11/27/2017	16:00	CMS	70	70	70	NA	0	0	0
12/16/2017	11:00	CMS	65	68	70	0	0	0	0
1/9/2018	12:30	NAS						0	
3/30/2018	15:15	CMS	40	NA	26	NA	0	0	0
4/18/2018	15:10	CMS	50	45	40	NA	0	0	0
5/13/2018	12:30	CMS	50	50	40	NA	0	0	0
6/18/2018	15:45	CMS	45	40	30	NA	0	0	0
7/12/2018	16:30	CMS	45	43	35	NA	0	0	0
8/4/2018	10:30	CMS	59	62	55	0	0	0	0
9/4/2018	16:40	CMS	53	50	47	NA	0	0	0
10/11/2018	16:11	CMS	56	56	55	NA	0	0	0
10/20/2018	10:15	CMS	58	56	57	NA	0	0	0
11/17/2018	9:00	CMS	56	60	57	0	0	0	0
12/22/2018	10:30	CMS	60	65	60	0	0	0	0
1/4/2019	16:30	CMS	55	55	55	NA	0	0	0
1/26/2019	9:00	CMS	60	63	59	0	0	0	0
2/20/2019	17:00	CMS	56	56	57	NA	0	0	0
3/16/2019	10:00	CMS	58	62	61	0	0	0	0
4/3/2019	8:00	CMS	46	44	45	NA	0	0	0
4/4/2019	8:00	CMS	58	58	58	NA	0	0	0
5/18/2019	10:30	CMS	63	65	59	0	0	0	0

Notes:

Date	
11/2/2017	running just SVE-2
11/6/2017	all 3
3/30/2018	couldn't access VMP and MW-3 (parked vehicles); SVE-2 (cap stuck)
4/3/2019	pressure low due to restart of system
ALL	NA at vmp due to presence of parked vehicles

APPENDIX D

ANALYTICAL LABORATORY REPORTS

ANALYTICAL REPORT

Lab Number:	L1817441
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 ST.
Project Number:	T0136-013-055
Report Date:	05/23/18

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 ST.
Project Number: T0136-013-055

Lab Number: L1817441
Report Date: 05/23/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1817441-01	MW-3	WATER	1050-1088 NIAGARA ST.	05/12/18 10:52	05/14/18
L1817441-02	TMW-3	WATER	1050-1088 NIAGARA ST.	05/12/18 11:16	05/14/18
L1817441-03	MW-6	WATER	1050-1088 NIAGARA ST.	05/12/18 12:15	05/14/18
L1817441-04	TRIP BLANK	WATER	1050-1088 NIAGARA ST.	05/12/18 00:00	05/14/18

Project Name:	1050-1088 NIAGARA ST.	**Lab Number:**	L1817441
Project Number:	T0136-013-055	**Report Date:**	05/23/18

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name:	1050-1088 NIAGARA ST.	**Lab Number:**	L1817441
Project Number:	T0136-013-055	**Report Date:**	05/23/18

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.

Sample Receipt

L1817441-04: A sample identified as "TRIP BLANK" was received but not listed on the Chain of Custody. This sample was not analyzed.

Volatile Organics

L1817441-01: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (159%); 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. The results are not considered to be biased.

Semivolatile Organics

The WG1116375-1 Method Blank, associated with L1817441-01, -02 and -03, has a concentration above the reporting limit for Bis(2-ethylhexyl)phthalate. The results of the original analysis are reported and are qualified with a "B" for any associated sample concentrations that are less than 10x the blank concentration for this analyte.

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 Cripps

Title: Technical Director/Representative Date: 05/23/18

ORGANICS

VOLATILES

Project Name: 1050-1088 NIAGARA ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-01 D
Client ID: MW-3
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 05/12/18 10:52
Date Received: 05/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/21/18 13:14
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	ND		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	ND		ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.33	2
Benzene	31		ug/l	1.0	0.32	2
Toluene	2.4	J	ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	ND		ug/l	2.0	0.14	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	ND		ug/l	1.0	0.34	2
trans-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
Trichloroethene	ND		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2

Project Name: 1050-1088 NIAGARA ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-01 D
Client ID: MW-3
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 05/12/18 10:52
Date Received: 05/14/18
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	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl tert butyl ether	ND		ug/l	5.0	1.4	2
p/m-Xylene	3.6	J	ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	ND		ug/l	10	2.0	2
Acetone	ND		ug/l	10	2.9	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	ND		ug/l	10	3.9	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	ND		ug/l	10	2.0	2
Bromochloromethane	ND		ug/l	5.0	1.4	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Isopropylbenzene	27		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl Acetate	ND		ug/l	4.0	0.47	2
Cyclohexane	160		ug/l	20	0.54	2
1,4-Dioxane	ND		ug/l	500	120	2
Freon-113	ND		ug/l	5.0	1.4	2
Methyl cyclohexane	210		ug/l	20	0.79	2

Project Name: 1050-1088 NIAGARA ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-01 D
Client ID: MW-3
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 05/12/18 10:52
Date Received: 05/14/18
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	926	J	ug/l			2
Unknown Cycloalkane	103	J	ug/l			2
Unknown	63.1	J	ug/l			2
Unknown Aromatic	77.3	J	ug/l			2
Unknown Cycloalkane	66.8	J	ug/l			2
Unknown Cyclohexane	159	J	ug/l			2
Cyclopentane, 1,3-dimethyl-	89.2	NJ	ug/l			2
Unknown	101	J	ug/l			2
Pentane, 2-methyl-	111	NJ	ug/l			2
Unknown Cycloalkane	68.3	J	ug/l			2
Cyclopentane, Methyl-	87.4	NJ	ug/l			2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	**159**	Q	70-130
Dibromofluoromethane	94		70-130

Project Name: 1050-1088 NIAGARA ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-02
Client ID: TMW-3
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 05/12/18 11:16
Date Received: 05/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/19/18 17:10
Analyst: KD

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 ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-02 Date Collected: 05/12/18 11:16

Client ID: TMW-3 Date Received: 05/14/18

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	2.4	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	1.4	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	0.47	J	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	0.96	J	ug/l	10	0.40	1

Project Name: 1050-1088 NIAGARA ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-02 Date Collected: 05/12/18 11:16

Client ID: TMW-3 Date Received: 05/14/18

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	26.5	J	ug/l			1
Unknown Cycloalkane	1.70	J	ug/l			1
Unknown Aromatic	4.07	J	ug/l			1
Unknown	1.76	J	ug/l			1
Unknown	3.40	J	ug/l			1
Unknown Benzene	1.81	J	ug/l			1
Unknown Cycloalkane	2.06	J	ug/l			1
Cyclohexane, 1,1,3-trimethyl-	3.09	NJ	ug/l			1
Unknown Aromatic	1.46	J	ug/l			1
Unknown Benzene	2.76	J	ug/l			1
Unknown Cycloalkane	4.41	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: 1050-1088 NIAGARA ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-03
Client ID: MW-6
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 05/12/18 12:15
Date Received: 05/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/19/18 16:35
Analyst: KD

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 ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-03 Date Collected: 05/12/18 12:15

Client ID: MW-6 Date Received: 05/14/18

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						
Total TIC Compounds	1.41	J	ug/l			1
Unknown	1.41	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: 1050-1088 NIAGARA ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/19/18 10:32
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG1117732-5					
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
1,1,2,2-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 ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/19/18 10:32
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG1117732-5					
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 ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/19/18 10:32
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG1117732-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: 1050-1088 NIAGARA ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/18 08:57
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1117912-5					
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
1,1,2,2-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 ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/18 08:57
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1117912-5					
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 ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/18 08:57
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1117912-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-055

Lab Number: L1817441
Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1117732-3 WG1117732-4								
Methylene chloride	93		99		70-130	6		20
1,1-Dichloroethane	96		100		70-130	4		20
Chloroform	96		100		70-130	4		20
Carbon tetrachloride	99		110		63-132	11		20
1,2-Dichloropropane	98		100		70-130	2		20
Dibromochloromethane	89		94		63-130	5		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	90		97		70-130	7		20
Chlorobenzene	92		100		75-130	8		20
Trichlorofluoromethane	81		90		62-150	11		20
1,2-Dichloroethane	99		100		70-130	1		20
1,1,1-Trichloroethane	96		110		67-130	14		20
Bromodichloromethane	98		100		67-130	2		20
trans-1,3-Dichloropropene	95		98		70-130	3		20
cis-1,3-Dichloropropene	99		100		70-130	1		20
Bromoform	86		89		54-136	3		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	96		100		70-130	4		20
Toluene	92		99		70-130	7		20
Ethylbenzene	96		100		70-130	4		20
Chloromethane	**58**	Q	**62**	Q	64-130	7		20
Bromomethane	82		97		39-139	17		20
Vinyl chloride	67		74		55-140	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-055

Lab Number: L1817441
Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1117732-3 WG1117732-4								
Chloroethane	78		86		55-138	10		20
1,1-Dichloroethene	84		94		61-145	11		20
trans-1,2-Dichloroethene	94		99		70-130	5		20
Trichloroethene	98		110		70-130	12		20
1,2-Dichlorobenzene	94		100		70-130	6		20
1,3-Dichlorobenzene	94		100		70-130	6		20
1,4-Dichlorobenzene	94		100		70-130	6		20
Methyl tert butyl ether	97		100		63-130	3		20
p/m-Xylene	95		105		70-130	10		20
o-Xylene	100		105		70-130	5		20
cis-1,2-Dichloroethene	98		110		70-130	12		20
Styrene	100		110		70-130	10		20
Dichlorodifluoromethane	43		47		36-147	9		20
Acetone	110		100		58-148	10		20
Carbon disulfide	74		81		51-130	9		20
2-Butanone	110		110		63-138	0		20
4-Methyl-2-pentanone	100		110		59-130	10		20
2-Hexanone	100		110		57-130	10		20
Bromochloromethane	98		100		70-130	2		20
1,2-Dibromoethane	95		99		70-130	4		20
1,2-Dibromo-3-chloropropane	95		98		41-144	3		20
Isopropylbenzene	93		100		70-130	7		20
1,2,3-Trichlorobenzene	**200**	Q	**260**	Q	70-130	**26**	Q	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-055

Lab Number: L1817441
Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1117732-3 WG1117732-4								
1,2,4-Trichlorobenzene	120		130		70-130	8		20
Methyl Acetate	100		110		70-130	10		20
Cyclohexane	90		100		70-130	11		20
1,4-Dioxane	114		144		56-162	**23**	Q	20
Freon-113	91		100		70-130	9		20
Methyl cyclohexane	92		100		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		104		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	102		104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-055

Lab Number: L1817441
Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1117912-3 WG1117912-4								
Methylene chloride	95		100		70-130	5		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	98		97		70-130	1		20
Carbon tetrachloride	91		99		63-132	8		20
1,2-Dichloropropane	98		100		70-130	2		20
Dibromochloromethane	85		97		63-130	13		20
1,1,2-Trichloroethane	88		98		70-130	11		20
Tetrachloroethene	78		84		70-130	7		20
Chlorobenzene	95		100		75-130	5		20
Trichlorofluoromethane	91		98		62-150	7		20
1,2-Dichloroethane	100		110		70-130	10		20
1,1,1-Trichloroethane	94		100		67-130	6		20
Bromodichloromethane	95		100		67-130	5		20
trans-1,3-Dichloropropene	92		100		70-130	8		20
cis-1,3-Dichloropropene	99		110		70-130	11		20
Bromoform	91		100		54-136	9		20
1,1,2,2-Tetrachloroethane	110		120		67-130	9		20
Benzene	96		100		70-130	4		20
Toluene	83		91		70-130	9		20
Ethylbenzene	96		100		70-130	4		20
Chloromethane	93		100		64-130	7		20
Bromomethane	64		70		39-139	9		20
Vinyl chloride	92		100		55-140	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-055

Lab Number: L1817441
Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1117912-3 WG1117912-4								
Chloroethane	69		73		55-138	6		20
1,1-Dichloroethene	84		100		61-145	17		20
trans-1,2-Dichloroethene	98		100		70-130	2		20
Trichloroethene	92		99		70-130	7		20
1,2-Dichlorobenzene	97		110		70-130	13		20
1,3-Dichlorobenzene	98		100		70-130	2		20
1,4-Dichlorobenzene	96		100		70-130	4		20
Methyl tert butyl ether	110		120		63-130	9		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	95		100		70-130	5		20
Dichlorodifluoromethane	96		100		36-147	4		20
Acetone	120		110		58-148	9		20
Carbon disulfide	87		100		51-130	14		20
2-Butanone	97		110		63-138	13		20
4-Methyl-2-pentanone	91		110		59-130	19		20
2-Hexanone	120		**140**	Q	57-130	15		20
Bromochloromethane	96		100		70-130	4		20
1,2-Dibromoethane	86		110		70-130	**24**	Q	20
1,2-Dibromo-3-chloropropane	97		120		41-144	**21**	Q	20
Isopropylbenzene	100		110		70-130	10		20
1,2,3-Trichlorobenzene	82		100		70-130	20		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.

Project Number: T0136-013-055

Lab Number: L1817441

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1117912-3 WG1117912-4								
1,2,4-Trichlorobenzene	90		100		70-130	11		20
Methyl Acetate	120		130		70-130	8		20
Cyclohexane	110		120		70-130	9		20
1,4-Dioxane	146		138		56-162	6		20
Freon-113	84		98		70-130	15		20
Methyl cyclohexane	90		94		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	117		115		70-130
Toluene-d8	89		92		70-130
4-Bromofluorobenzene	115		115		70-130
Dibromofluoromethane	95		94		70-130

SEMIVOLATILES

Project Name: 1050-1088 NIAGARA ST.
Lab Number: L1817441
Project Number: T0136-013-055
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-01
Client ID: MW-3
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 05/12/18 10:52
Date Received: 05/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/19/18 11:44
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 05/16/18 12:26

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	7.2	B	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 ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-01 Date Collected: 05/12/18 10:52

Client ID: MW-3 Date Received: 05/14/18

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	1.6	J	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 ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-01 Date Collected: 05/12/18 10:52

Client ID: MW-3 Date Received: 05/14/18

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	334	J	ug/l			1
Unknown Benzene	14.0	J	ug/l			1
Unknown	20.5	J	ug/l			1
Unknown Cycloalkane	13.7	J	ug/l			1
Unknown	44.5	J	ug/l			1
Unknown	14.7	J	ug/l			1
Unknown Alkane	25.6	J	ug/l			1
Unknown	16.5	J	ug/l			1
Unknown	33.1	J	ug/l			1
Unknown	21.0	J	ug/l			1
Unknown Alkane	15.0	J	ug/l			1
Unknown Benzene	15.0	J	ug/l			1
Unknown Benzene	16.4	J	ug/l			1
Unknown	51.6	J	ug/l			1
Unknown	14.5	J	ug/l			1
Unknown Benzene	17.7	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	54		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	61		41-149

Project Name: 1050-1088 NIAGARA ST.
Lab Number: L1817441
Project Number: T0136-013-055
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-01
Client ID: MW-3
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 05/12/18 10:52
Date Received: 05/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/17/18 14:51
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/16/18 12:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.07	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	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.09	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.08	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.13		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.05	J	ug/l	0.10	0.01	1
Chrysene	0.13		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	0.04	J	ug/l	0.10	0.01	1
Fluorene	0.06	J	ug/l	0.10	0.01	1
Phenanthrene	0.20		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	0.05	J	ug/l	0.10	0.01	1
Pyrene	0.22		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.04	J	ug/l	0.10	0.02	1
Pentachlorophenol	0.11	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 ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-01 Date Collected: 05/12/18 10:52

Client ID: MW-3 Date Received: 05/14/18

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	40		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	49		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	54		41-149

Project Name: 1050-1088 NIAGARA ST.
Lab Number: L1817441
Project Number: T0136-013-055
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-02
Client ID: TMW-3
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 05/12/18 11:16
Date Received: 05/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/19/18 12:12
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 05/16/18 12:26

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	8.2	B	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	0.73	J	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 ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-02 Date Collected: 05/12/18 11:16

Client ID: TMW-3 Date Received: 05/14/18

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						
Total TIC Compounds	205	J	ug/l			1
Unknown Organic Acid	6.29	J	ug/l			1
Unknown Organic Acid	146	J	ug/l			1
Unknown	1.49	J	ug/l			1
Unknown	2.47	J	ug/l			1
Unknown	1.78	J	ug/l			1
Unknown Organic Acid	9.20	J	ug/l			1
Aldol Condensate	34.0	J	ug/l			1
Unknown	1.49	J	ug/l			1
Unknown	2.76	J	ug/l			1

Project Name: 1050-1088 NIAGARA ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-02 Date Collected: 05/12/18 11:16

Client ID: TMW-3 Date Received: 05/14/18

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						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	55		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	60		41-149

Project Name: 1050-1088 NIAGARA ST.
Lab Number: L1817441
Project Number: T0136-013-055
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-02
Client ID: TMW-3
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 05/12/18 11:16
Date Received: 05/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/17/18 15:19
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/16/18 12:30

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	0.07	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	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.03	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	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	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.07	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	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.06	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 ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-02 Date Collected: 05/12/18 11:16

Client ID: TMW-3 Date Received: 05/14/18

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	44		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	57		41-149

Project Name: 1050-1088 NIAGARA ST.
Lab Number: L1817441
Project Number: T0136-013-055
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-03
Client ID: MW-6
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 05/12/18 12:15
Date Received: 05/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/19/18 12:40
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 05/16/18 12:26

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	6.4	B	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 ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-03 Date Collected: 05/12/18 12:15

Client ID: MW-6 Date Received: 05/14/18

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						
Total TIC Compounds	31.7	J	ug/l			1
Aldol Condensate	31.7	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	59		10-120
4-Terphenyl-d14	62		41-149

Project Name: 1050-1088 NIAGARA ST.
Lab Number: L1817441
Project Number: T0136-013-055
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-03
Client ID: MW-6
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 05/12/18 12:15
Date Received: 05/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/17/18 15:46
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/16/18 12:30

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 ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

SAMPLE RESULTS

Lab ID: L1817441-03 Date Collected: 05/12/18 12:15

Client ID: MW-6 Date Received: 05/14/18

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	41		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	59		41-149

Project Name: 1050-1088 NIAGARA ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/19/18 10:20
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 05/16/18 12:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1116375-1					
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	6.4		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 ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/19/18 10:20
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 05/16/18 12:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1116375-1					
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	34.6	J	ug/l
Aldol Condensate	34.6	J	ug/l

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-055
Lab Number: L1817441
Report Date: 05/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/19/18 10:20
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 05/16/18 12:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1116375-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	48		15-120
2,4,6-Tribromophenol	37		10-120
4-Terphenyl-d14	61		41-149

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-055

Lab Number: L1817441
Report Date: 05/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/17/18 13:02
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 05/16/18 12:30

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1116378-1					
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	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	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	0.01	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 ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/17/18 13:02
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 05/16/18 12:30

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1116378-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	49		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	56		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-055

Lab Number: L1817441
Report Date: 05/23/18

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: WG1116375-2 WG1116375-3								
Bis(2-chloroethyl)ether	58		40		40-140	**37**	Q	30
3,3'-Dichlorobenzidine	45		**37**	Q	40-140	20		30
2,4-Dinitrotoluene	80		61		48-143	27		30
2,6-Dinitrotoluene	70		57		40-140	20		30
4-Chlorophenyl phenyl ether	73		58		40-140	23		30
4-Bromophenyl phenyl ether	73		56		40-140	26		30
Bis(2-chloroisopropyl)ether	52		**38**	Q	40-140	**31**	Q	30
Bis(2-chloroethoxy)methane	64		47		40-140	**31**	Q	30
Hexachlorocyclopentadiene	58		41		40-140	**34**	Q	30
Isophorone	73		53		40-140	**32**	Q	30
Nitrobenzene	65		43		40-140	**41**	Q	30
NDPA/DPA	75		55		40-140	**31**	Q	30
n-Nitrosodi-n-propylamine	68		50		29-132	**31**	Q	30
Bis(2-ethylhexyl)phthalate	106		81		40-140	27		30
Butyl benzyl phthalate	80		62		40-140	25		30
Di-n-butylphthalate	76		59		40-140	25		30
Di-n-octylphthalate	76		63		40-140	19		30
Diethyl phthalate	78		62		40-140	23		30
Dimethyl phthalate	73		58		40-140	23		30
Biphenyl	66		51		40-140	26		30
4-Chloroaniline	47		44		40-140	7		30
2-Nitroaniline	69		**51**	Q	52-143	30		30
3-Nitroaniline	64		55		25-145	15		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-055

Lab Number: L1817441
Report Date: 05/23/18

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: WG1116375-2 WG1116375-3								
4-Nitroaniline	72		59		51-143	20		30
Dibenzofuran	69		54		40-140	24		30
1,2,4,5-Tetrachlorobenzene	62		46		2-134	30		30
Acetophenone	65		46		39-129	**34**	Q	30
2,4,6-Trichlorophenol	61		48		30-130	24		30
p-Chloro-m-cresol	75		55		23-97	**31**	Q	30
2-Chlorophenol	60		41		27-123	**38**	Q	30
2,4-Dichlorophenol	71		47		30-130	**41**	Q	30
2,4-Dimethylphenol	61		48		30-130	24		30
2-Nitrophenol	60		39		30-130	**42**	Q	30
4-Nitrophenol	69		50		10-80	**32**	Q	30
2,4-Dinitrophenol	52		46		20-130	12		30
4,6-Dinitro-o-cresol	57		48		20-164	17		30
Phenol	48		37		12-110	26		30
3-Methylphenol/4-Methylphenol	64		50		30-130	25		30
2,4,5-Trichlorophenol	66		52		30-130	24		30
Carbazole	71		56		55-144	24		30
Atrazine	88		71		40-140	21		30
Benzaldehyde	58		**37**	Q	40-140	**44**	Q	30
Caprolactam	43		36		10-130	18		30
2,3,4,6-Tetrachlorophenol	70		52		40-140	30		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-055

Lab Number: L1817441
Report Date: 05/23/18

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: WG1116375-2 WG1116375-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	53		39		21-120
Phenol-d6	47		37		10-120
Nitrobenzene-d5	59		40		23-120
2-Fluorobiphenyl	57		45		15-120
2,4,6-Tribromophenol	70		54		10-120
4-Terphenyl-d14	65		48		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.

Project Number: T0136-013-055

Lab Number: L1817441

Report Date: 05/23/18

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: WG1116378-2 WG1116378-3								
Acenaphthene	65		62		40-140	5		40
2-Chloronaphthalene	55		52		40-140	6		40
Fluoranthene	67		62		40-140	8		40
Hexachlorobutadiene	46		43		40-140	7		40
Naphthalene	51		48		40-140	6		40
Benzo(a)anthracene	76		71		40-140	7		40
Benzo(a)pyrene	60		59		40-140	2		40
Benzo(b)fluoranthene	64		59		40-140	8		40
Benzo(k)fluoranthene	63		58		40-140	8		40
Chrysene	66		62		40-140	6		40
Acenaphthylene	61		58		40-140	5		40
Anthracene	65		61		40-140	6		40
Benzo(ghi)perylene	60		56		40-140	7		40
Fluorene	69		64		40-140	8		40
Phenanthrene	66		61		40-140	8		40
Dibenzo(a,h)anthracene	63		59		40-140	7		40
Indeno(1,2,3-cd)pyrene	63		60		40-140	5		40
Pyrene	69		66		40-140	4		40
2-Methylnaphthalene	54		52		40-140	4		40
Pentachlorophenol	63		60		40-140	5		40
Hexachlorobenzene	63		58		40-140	8		40
Hexachloroethane	45		42		40-140	7		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-055

Lab Number: L1817441
Report Date: 05/23/18

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: WG1116378-2 WG1116378-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	41		39		21-120
Phenol-d6	37		35		10-120
Nitrobenzene-d5	48		45		23-120
2-Fluorobiphenyl	50		47		15-120
2,4,6-Tribromophenol	76		70		10-120
4-Terphenyl-d14	59		53		41-149

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-055

Lab Number: L1817441
Report Date: 05/23/18

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(*)
L1817441-01A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L1817441-01B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L1817441-01C	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L1817441-01D	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1817441-01E	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1817441-02A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L1817441-02B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L1817441-02C	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L1817441-02D	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1817441-02E	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1817441-03A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L1817441-03B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L1817441-03C	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260-R2(14)
L1817441-03D	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1817441-03E	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1817441-04A	Vial HCl preserved	A	NA		4.6	Y	Absent		ARCHIVE()

*Values in parentheses indicate holding time in days

Project Name:	1050-1088 NIAGARA ST.	**Lab Number:**	L1817441
Project Number:	T0136-013-055	**Report Date:**	05/23/18

GLOSSARY

Acronyms

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).
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.
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.
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.
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

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.

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.

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 Condensation Product".
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

Report Format: DU Report with 'J' Qualifiers

Project Name:	1050-1088 NIAGARA ST.	**Lab Number:**	L1817441
Project Number:	T0136-013-055	**Report Date:**	05/23/18

Data Qualifiers

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.

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.

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

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.

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).

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 ST. **Lab Number:** L1817441

Project Number: T0136-013-055 **Report Date:** 05/23/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; 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**
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**, EPA 351.1, 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 624: Volatile Halocarbons & Aromatics,
EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, 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, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

NEW YORK CHAIN OF CUSTODY

ALPHA

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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: 5/15/18

ALPHA Job #: L1817491

Client Information
Client: TURNKEY ENV. REST
Address: 2558 HAMBURG TPKE
BUFFALO, NY 14218
Phone: 716 856 0599
Fax:
Email: NMUNLEY@TURNKEY.LLC

Project Information
Project Name: 1050-1085 NIAGARA ST
Project Location: 1050-1085 NIAGARA ST
Project #: T0136-005 013-055
(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

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

Billing Information
☐ Same as Client Info
PO #

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs + TICs	TCL SVOCs + TICs	Sample Specific Comments	Total Bottles
L1817491-01	MW-3	5/12/18	1052	AQUA	CMC	X	X		5
02	TMW-3		1116			X	X		5
03	MW-6		1218			X	X		5

Container Type: 40mL, 250mL
Preservative: B, A

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	5/14/18 758	[signature] AAL	5/14/18 12:00
[signature] AAL	5/14/18 13:00	[signature]	5/15/18 02:35

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

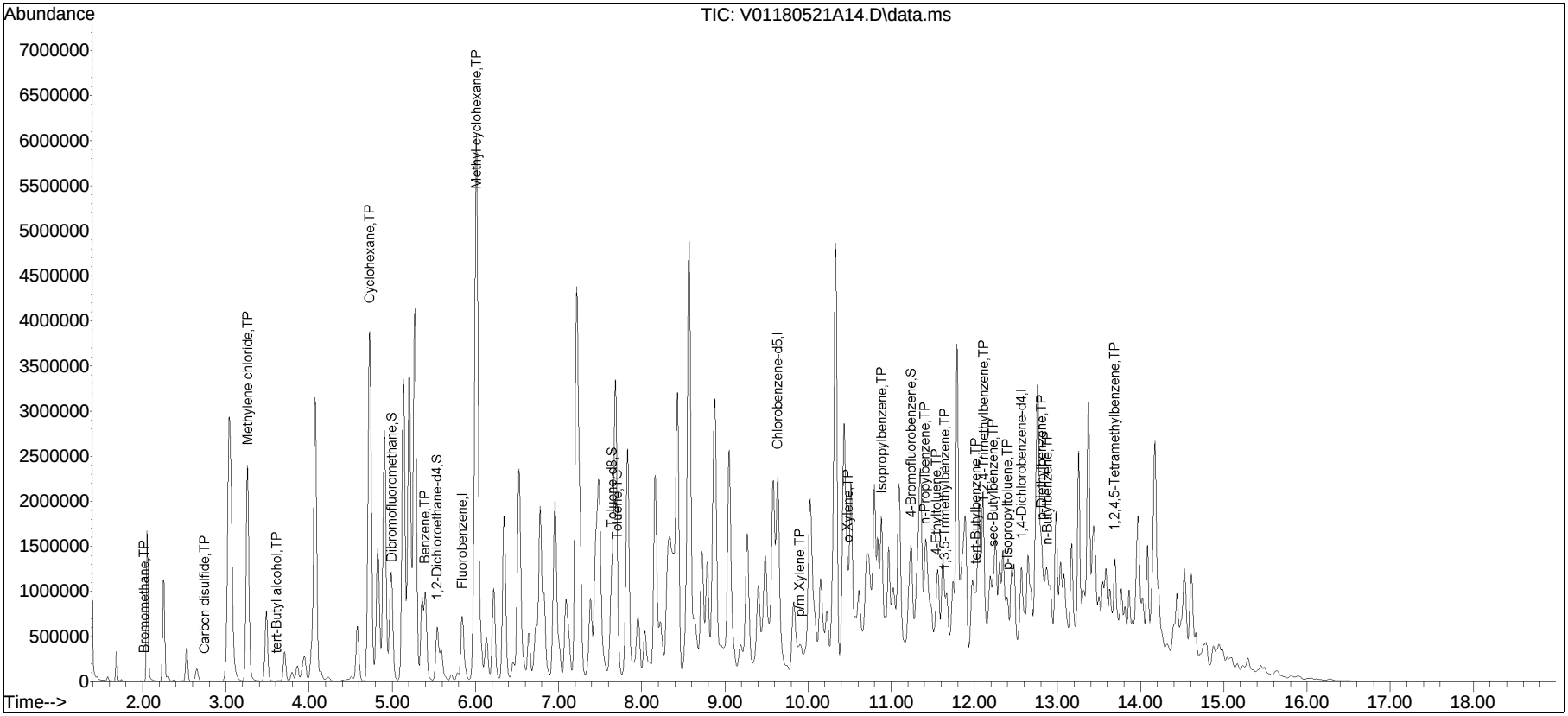
Form No: 01-25 HC (rev. 30-Sept-2013)

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2018\180521A\
Data File : V01180521A14.D
Acq On : 21 May 2018 1:14 pm
Operator : VOA101:JC
Sample : l1817441-01D,31,5.0,10,,c
Misc : WG1117912,ICAL14549
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 21 13:38:42 2018
Quant Method : I:\VOLATILES\VOA101\2018\180521A\V101_180315A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Mar 20 11:27:54 2018
Response via : Initial Calibration

Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve1.D•



ANALYTICAL REPORT

Lab Number:	L1914072
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Nate Munley
Phone:	(716) 856-0599
Project Name:	1050 NIAGARA
Project Number:	T0136-013-005
Report Date:	04/16/19

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 NIAGARA
Project Number: T0136-013-005

Lab Number: L1914072
Report Date: 04/16/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1914072-01	TMW-3	WATER	1050 NIAGARA	04/06/19 11:45	04/08/19
L1914072-02	MW-3	WATER	1050 NIAGARA	04/06/19 12:55	04/08/19
L1914072-03	MW-6	WATER	1050 NIAGARA	04/06/19 13:35	04/08/19

Project Name:	1050 NIAGARA	**Lab Number:**	L1914072
Project Number:	T0136-013-005	**Report Date:**	04/16/19

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 NIAGARA	**Lab Number:**	L1914072
Project Number:	T0136-013-005	**Report Date:**	04/16/19

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

L1914072-02: The sample has elevated detection limits due to the dilution required by the sample matrix (oily).

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

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 04/16/19

ORGANICS

VOLATILES

Project Name: 1050 NIAGARA
Project Number: T0136-013-005
Lab Number: L1914072
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-01
Client ID: TMW-3
Sample Location: 1050 NIAGARA

Date Collected: 04/06/19 11:45
Date Received: 04/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/19 16:55
Analyst: PK

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 NIAGARA
Lab Number: L1914072
Project Number: T0136-013-005
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-01
Client ID: TMW-3
Sample Location: 1050 NIAGARA
Date Collected: 04/06/19 11:45
Date Received: 04/08/19
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	0.72	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	0.46	J	ug/l	10	0.40	1

Project Name: 1050 NIAGARA
Project Number: T0136-013-005
Lab Number: L1914072
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-01
Client ID: TMW-3
Sample Location: 1050 NIAGARA
Date Collected: 04/06/19 11:45
Date Received: 04/08/19
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	12.6	J	ug/l			1
Unknown Cyclohexane	1.31	J	ug/l			1
Unknown	1.29	J	ug/l			1
Unknown Aromatic	1.67	J	ug/l			1
Unknown Cyclohexane	1.40	J	ug/l			1
Unknown Benzene	1.31	J	ug/l			1
Unknown Cycloalkane	1.10	J	ug/l			1
Unknown Aromatic	1.20	J	ug/l			1
Unknown Cyclohexane	2.20	J	ug/l			1
Unknown Aromatic	1.16	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: 1050 NIAGARA
Project Number: T0136-013-005
Lab Number: L1914072
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-02 D
Client ID: MW-3
Sample Location: 1050 NIAGARA

Date Collected: 04/06/19 12:55
Date Received: 04/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/19 18:53
Analyst: PK

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	39		ug/l	2.0	0.64	4
Toluene	4.2	J	ug/l	10	2.8	4
Ethylbenzene	ND		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 NIAGARA
Lab Number: L1914072
Project Number: T0136-013-005
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-02 D
Client ID: MW-3
Sample Location: 1050 NIAGARA

Date Collected: 04/06/19 12:55
Date Received: 04/08/19
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	6.2	J	ug/l	10	2.8	4
o-Xylene	ND		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	60		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	260		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	230		ug/l	40	1.6	4

Project Name: 1050 NIAGARA
Lab Number: L1914072
Project Number: T0136-013-005
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-02 D
Client ID: MW-3
Sample Location: 1050 NIAGARA

Date Collected: 04/06/19 12:55
Date Received: 04/08/19
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	896	J	ug/l			4
Unknown Cycloalkane	97.2	J	ug/l			4
Unknown Cyclohexane	90.7	J	ug/l			4
Cyclohexene	93.4	NJ	ug/l			4
Pentane	47.0	NJ	ug/l			4
Unknown Aromatic	48.8	J	ug/l			4
Cyclopentane, Methyl-	150	NJ	ug/l			4
1-Pentene	153	NJ	ug/l			4
Unknown Cycloalkane	77.2	J	ug/l			4
Unknown Aromatic	76.1	J	ug/l			4
Pentane, 3-methyl-	62.8	NJ	ug/l			4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: 1050 NIAGARA
Project Number: T0136-013-005
Lab Number: L1914072
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-03
Client ID: MW-6
Sample Location: 1050 NIAGARA

Date Collected: 04/06/19 13:35
Date Received: 04/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/19 17:25
Analyst: PK

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 NIAGARA
Project Number: T0136-013-005
Lab Number: L1914072
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-03
Client ID: MW-6
Sample Location: 1050 NIAGARA
Date Collected: 04/06/19 13:35
Date Received: 04/08/19
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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	100		70-130

Project Name: 1050 NIAGARA
Project Number: T0136-013-005
Lab Number: L1914072
Report Date: 04/16/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/19 10:33
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1225976-5					
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
1,1,2,2-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 NIAGARA
Project Number: T0136-013-005
Lab Number: L1914072
Report Date: 04/16/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/19 10:33
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1225976-5					
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 NIAGARA
Project Number: T0136-013-005
Lab Number: L1914072
Report Date: 04/16/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/19 10:33
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1225976-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050 NIAGARA
Project Number: T0136-013-005

Lab Number: L1914072
Report Date: 04/16/19

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: WG1225976-3 WG1225976-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	100		110		63-130	10		20
1,1,2-Trichloroethane	97		100		70-130	3		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	95		95		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	110		110		67-130	0		20
trans-1,3-Dichloropropene	94		95		70-130	1		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Bromoform	100		110		54-136	10		20
1,1,2,2-Tetrachloroethane	95		97		67-130	2		20
Benzene	100		100		70-130	0		20
Toluene	100		99		70-130	1		20
Ethylbenzene	100		99		70-130	1		20
Chloromethane	80		81		64-130	1		20
Bromomethane	57		53		39-139	7		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050 NIAGARA
Project Number: T0136-013-005

Lab Number: L1914072
Report Date: 04/16/19

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: WG1225976-3 WG1225976-4								
Chloroethane	110		100		55-138	10		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	96		98		70-130	2		20
1,3-Dichlorobenzene	97		96		70-130	1		20
1,4-Dichlorobenzene	96		96		70-130	0		20
Methyl tert butyl ether	95		97		63-130	2		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	130		130		36-147	0		20
Acetone	97		87		58-148	11		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	**61**	Q	**60**	Q	63-138	2		20
4-Methyl-2-pentanone	100		100		59-130	0		20
2-Hexanone	84		84		57-130	0		20
Bromochloromethane	120		120		70-130	0		20
1,2-Dibromoethane	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	97		97		41-144	0		20
Isopropylbenzene	99		98		70-130	1		20
1,2,3-Trichlorobenzene	91		98		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050 NIAGARA
Project Number: T0136-013-005

Lab Number: L1914072
Report Date: 04/16/19

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: WG1225976-3 WG1225976-4								
1,2,4-Trichlorobenzene	95		98		70-130	3		20
Methyl Acetate	72		72		70-130	0		20
Cyclohexane	110		110		70-130	0		20
1,4-Dioxane	110		100		56-162	10		20
Freon-113	100		100		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	93		94		70-130
Toluene-d8	97		95		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	100		99		70-130

SEMIVOLATILES

Project Name: 1050 NIAGARA
Project Number: T0136-013-005
Lab Number: L1914072
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-01
Client ID: TMW-3
Sample Location: 1050 NIAGARA

Date Collected: 04/06/19 11:45
Date Received: 04/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/12/19 05:54
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 04/11/19 16:34

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 NIAGARA **Lab Number:** L1914072

Project Number: T0136-013-005 **Report Date:** 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-01 Date Collected: 04/06/19 11:45

Client ID: TMW-3 Date Received: 04/08/19

Sample Location: 1050 NIAGARA 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	202	J	ug/l			1
Unknown Organic Acid	1.45	J	ug/l			1
Unknown	1.85	J	ug/l			1
Unknown	8.00	J	ug/l			1
Unknown	2.36	J	ug/l			1
Aldol Condensates	125	J	ug/l			1
Aldol Condensates	63.3	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	50		15-120
2,4,6-Tribromophenol	57		10-120
4-Terphenyl-d14	51		41-149

Project Name: 1050 NIAGARA
Project Number: T0136-013-005
Lab Number: L1914072
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-01
Client ID: TMW-3
Sample Location: 1050 NIAGARA

Date Collected: 04/06/19 11:45
Date Received: 04/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/15/19 03:05
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 04/11/19 16:58

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	0.07	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	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.04	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Chrysene	0.04	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	0.03	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.05	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	0.03	J	ug/l	0.10	0.01	1
Pyrene	0.07	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 NIAGARA
Lab Number: L1914072
Project Number: T0136-013-005
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-01
Client ID: TMW-3
Sample Location: 1050 NIAGARA
Date Collected: 04/06/19 11:45
Date Received: 04/08/19
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	25		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	45		15-120
2,4,6-Tribromophenol	40		10-120
4-Terphenyl-d14	44		41-149

Project Name: 1050 NIAGARA
Project Number: T0136-013-005
Lab Number: L1914072
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-02
Client ID: MW-3
Sample Location: 1050 NIAGARA

Date Collected: 04/06/19 12:55
Date Received: 04/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/12/19 05:07
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 04/11/19 16:34

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	3.6		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	2.6	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 NIAGARA
Lab Number: L1914072
Project Number: T0136-013-005
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-02
Client ID: MW-3
Sample Location: 1050 NIAGARA
Date Collected: 04/06/19 12:55
Date Received: 04/08/19
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 NIAGARA
Lab Number: L1914072
Project Number: T0136-013-005
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-02
Client ID: MW-3
Sample Location: 1050 NIAGARA
Date Collected: 04/06/19 12:55
Date Received: 04/08/19
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	1020	J	ug/l			1
Unknown Alkane	27.0	J	ug/l			1
Unknown Alkane	38.2	J	ug/l			1
Unknown Alkane	50.9	J	ug/l			1
Unknown Cyclohexane	26.7	J	ug/l			1
Aldol Condensates	96.3	J	ug/l			1
Unknown Alkane	33.8	J	ug/l			1
Unknown Cyclohexane	65.5	J	ug/l			1
Unknown	35.5	J	ug/l			1
Unknown Alkane	42.9	J	ug/l			1
Unknown Benzene	42.8	J	ug/l			1
Aldol Condensates	279	J	ug/l			1
Unknown	46.6	J	ug/l			1
Unknown	118	J	ug/l			1
Unknown	37.6	J	ug/l			1
Unknown Alkane	79.1	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	88		10-120
4-Terphenyl-d14	90		41-149

Project Name: 1050 NIAGARA
Project Number: T0136-013-005
Lab Number: L1914072
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-02
Client ID: MW-3
Sample Location: 1050 NIAGARA

Date Collected: 04/06/19 12:55
Date Received: 04/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/15/19 17:49
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 04/11/19 16:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.13		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	0.59		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.10		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.07	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.08	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.07	J	ug/l	0.10	0.01	1
Chrysene	0.15		ug/l	0.10	0.01	1
Acenaphthylene	0.02	J	ug/l	0.10	0.01	1
Anthracene	0.06	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.05	J	ug/l	0.10	0.01	1
Fluorene	0.07	J	ug/l	0.10	0.01	1
Phenanthrene	0.24		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.01	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.04	J	ug/l	0.10	0.01	1
Pyrene	0.22		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.06	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 NIAGARA
Lab Number: L1914072
Project Number: T0136-013-005
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-02
Client ID: MW-3
Sample Location: 1050 NIAGARA
Date Collected: 04/06/19 12:55
Date Received: 04/08/19
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	44		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	69		41-149

Project Name: 1050 NIAGARA
Project Number: T0136-013-005
Lab Number: L1914072
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-03
Client ID: MW-6
Sample Location: 1050 NIAGARA

Date Collected: 04/06/19 13:35
Date Received: 04/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/12/19 05:32
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 04/11/19 16:34

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 NIAGARA
Lab Number: L1914072
Project Number: T0136-013-005
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-03
Client ID: MW-6
Sample Location: 1050 NIAGARA
Date Collected: 04/06/19 13:35
Date Received: 04/08/19
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	238	J	ug/l			1
Unknown	1.64	J	ug/l			1
Aldol Condensates	171	J	ug/l			1
Unknown Organic Acid	1.93	J	ug/l			1
Aldol Condensates	55.5	J	ug/l			1
Unknown	8.00	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	85		41-149

Project Name: 1050 NIAGARA
Project Number: T0136-013-005
Lab Number: L1914072
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-03
Client ID: MW-6
Sample Location: 1050 NIAGARA

Date Collected: 04/06/19 13:35
Date Received: 04/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/15/19 17:25
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 04/11/19 16:58

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	0.02	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	ND		ug/l	0.10	0.01	1
Fluorene	0.03	J	ug/l	0.10	0.01	1
Phenanthrene	0.07	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	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 NIAGARA
Lab Number: L1914072
Project Number: T0136-013-005
Report Date: 04/16/19

SAMPLE RESULTS

Lab ID: L1914072-03
Client ID: MW-6
Sample Location: 1050 NIAGARA

Date Collected: 04/06/19 13:35
Date Received: 04/08/19
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	48		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	73		41-149

Project Name: 1050 NIAGARA
Project Number: T0136-013-005

Lab Number: L1914072
Report Date: 04/16/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/12/19 14:14
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 04/11/19 07:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1225312-1					
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 NIAGARA
Project Number: T0136-013-005

Lab Number: L1914072
Report Date: 04/16/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/12/19 14:14
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 04/11/19 07:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1225312-1					
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	53.4	J	ug/l
Aldol Condensates	53.4	J	ug/l

Project Name: 1050 NIAGARA
Project Number: T0136-013-005

Lab Number: L1914072
Report Date: 04/16/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/12/19 14:14
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 04/11/19 07:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1225312-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	83		41-149

Project Name: 1050 NIAGARA
Project Number: T0136-013-005
Lab Number: L1914072
Report Date: 04/16/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 04/12/19 17:06
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 04/11/19 07:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1225313-1					
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	0.02	J	ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	0.02	J	ug/l	0.10	0.01
Phenanthrene	0.03	J	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 NIAGARA
Project Number: T0136-013-005

Lab Number: L1914072
Report Date: 04/16/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 04/12/19 17:06
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 04/11/19 07:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1225313-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	73		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050 NIAGARA
Project Number: T0136-013-005

Lab Number: L1914072
Report Date: 04/16/19

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: WG1225312-2 WG1225312-3								
Bis(2-chloroethyl)ether	75		76		40-140	1		30
3,3'-Dichlorobenzidine	50		57		40-140	13		30
2,4-Dinitrotoluene	97		92		48-143	5		30
2,6-Dinitrotoluene	96		94		40-140	2		30
4-Chlorophenyl phenyl ether	86		82		40-140	5		30
4-Bromophenyl phenyl ether	91		85		40-140	7		30
Bis(2-chloroisopropyl)ether	74		73		40-140	1		30
Bis(2-chloroethoxy)methane	84		83		40-140	1		30
Hexachlorocyclopentadiene	71		74		40-140	4		30
Isophorone	88		88		40-140	0		30
Nitrobenzene	78		80		40-140	3		30
NDPA/DPA	91		90		40-140	1		30
n-Nitrosodi-n-propylamine	89		90		29-132	1		30
Bis(2-ethylhexyl)phthalate	76		74		40-140	3		30
Butyl benzyl phthalate	96		88		40-140	9		30
Di-n-butylphthalate	88		82		40-140	7		30
Di-n-octylphthalate	84		80		40-140	5		30
Diethyl phthalate	98		93		40-140	5		30
Dimethyl phthalate	92		92		40-140	0		30
Biphenyl	86		87		40-140	1		30
4-Chloroaniline	65		80		40-140	21		30
2-Nitroaniline	87		86		52-143	1		30
3-Nitroaniline	67		74		25-145	10		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050 NIAGARA
Project Number: T0136-013-005

Lab Number: L1914072
Report Date: 04/16/19

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: WG1225312-2 WG1225312-3								
4-Nitroaniline	83		84		51-143	1		30
Dibenzofuran	83		82		40-140	1		30
1,2,4,5-Tetrachlorobenzene	80		82		2-134	2		30
Acetophenone	90		90		39-129	0		30
2,4,6-Trichlorophenol	92		90		30-130	2		30
p-Chloro-m-cresol	94		93		23-97	1		30
2-Chlorophenol	78		78		27-123	0		30
2,4-Dichlorophenol	86		87		30-130	1		30
2,4-Dimethylphenol	61		76		30-130	22		30
2-Nitrophenol	79		78		30-130	1		30
4-Nitrophenol	80		75		10-80	6		30
2,4-Dinitrophenol	83		79		20-130	5		30
4,6-Dinitro-o-cresol	84		79		20-164	6		30
Phenol	58		58		12-110	0		30
3-Methylphenol/4-Methylphenol	78		78		30-130	0		30
2,4,5-Trichlorophenol	91		92		30-130	1		30
Carbazole	94		89		55-144	5		30
Atrazine	130		123		40-140	6		30
Benzaldehyde	83		82		40-140	1		30
Caprolactam	50		49		10-130	2		30
2,3,4,6-Tetrachlorophenol	92		84		40-140	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050 NIAGARA

Project Number: T0136-013-005

Lab Number: L1914072

Report Date: 04/16/19

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: WG1225312-2 WG1225312-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	61		62		21-120
Phenol-d6	55		56		10-120
Nitrobenzene-d5	79		80		23-120
2-Fluorobiphenyl	82		82		15-120
2,4,6-Tribromophenol	91		87		10-120
4-Terphenyl-d14	89		83		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050 NIAGARA
Project Number: T0136-013-005

Lab Number: L1914072
Report Date: 04/16/19

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: WG1225313-2 WG1225313-3								
Acenaphthene	77		84		40-140	9		40
2-Chloronaphthalene	73		83		40-140	13		40
Fluoranthene	77		73		40-140	5		40
Hexachlorobutadiene	69		72		40-140	4		40
Naphthalene	68		72		40-140	6		40
Benzo(a)anthracene	88		100		40-140	13		40
Benzo(a)pyrene	77		84		40-140	9		40
Benzo(b)fluoranthene	78		84		40-140	7		40
Benzo(k)fluoranthene	82		89		40-140	8		40
Chrysene	88		114		40-140	26		40
Acenaphthylene	75		76		40-140	1		40
Anthracene	82		88		40-140	7		40
Benzo(ghi)perylene	77		82		40-140	6		40
Fluorene	83		108		40-140	26		40
Phenanthrene	77		84		40-140	9		40
Dibenzo(a,h)anthracene	81		86		40-140	6		40
Indeno(1,2,3-cd)pyrene	82		86		40-140	5		40
Pyrene	76		72		40-140	5		40
2-Methylnaphthalene	70		72		40-140	3		40
Pentachlorophenol	65		65		40-140	0		40
Hexachlorobenzene	78		86		40-140	10		40
Hexachloroethane	76		64		40-140	17		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050 NIAGARA
Project Number: T0136-013-005

Lab Number: L1914072
Report Date: 04/16/19

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: WG1225313-2 WG1225313-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	48		44		21-120
Phenol-d6	40		40		10-120
Nitrobenzene-d5	84		67		23-120
2-Fluorobiphenyl	67		77		15-120
2,4,6-Tribromophenol	65		75		10-120
4-Terphenyl-d14	68		71		41-149

Project Name: 1050 NIAGARA
Project Number: T0136-013-005

Lab Number: L1914072
Report Date: 04/16/19

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(*)
L1914072-01A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1914072-01B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1914072-01C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1914072-01D	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7)
L1914072-01E	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8270-LVI(7)
L1914072-02A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1914072-02B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1914072-02C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1914072-02D	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7)
L1914072-02E	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8270-LVI(7)
L1914072-03A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1914072-03B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1914072-03C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L1914072-03D	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7)
L1914072-03E	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days

Project Name:	1050 NIAGARA	**Lab Number:**	L1914072
Project Number:	T0136-013-005	**Report Date:**	04/16/19

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.

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 NIAGARA	**Lab Number:**	L1914072
Project Number:	T0136-013-005	**Report Date:**	04/16/19

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.

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.

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.

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 Condensation Product".

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.

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.

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

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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

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

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
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

ALPHA ANALYTICAL

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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: 4/9/19

ALPHA Job #: L1914072

Client Information

Client: TURNKEY ENV. REST.
Address: 2558 HAMBURG TURNPIKE
BUFFALO, NY 14218
Phone: 716-856-0599
Fax:
Email: nmunley@turnkeyllc.com

Project Information

Project Name: 1050 NIAGARA
Project Location: 1050 NIAGARA
Project # T0136-013-005
(Use Project name as Project #) ☐
Project Manager: NATHAN 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

Regulatory Requirement

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

Billing Information

☒ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs + TICs	TCL SVOCs + TICs	Sample Specific Comments	Total Bottle
14072 -01	TMW-3	4/6/19	1145	AQUA	CQ	x	x		5
-02	MW-3	↓	1255			x	x		5
-03	MW-6		1335			x	x		5

Container Type: V A
Preservative: B A

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
Chad M Schmidt	4/8/19 811	[illegible] AAL	4/8/19 1550
[illegible] AAL	4/8/19 16:40	[illegible]	4/9/19 0105

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

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